

Generated using SQL Data Dictionary demo version.

## **AdventureWorks2014**

*AdventureWorks 2014 Sample OLTP Database*

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## Tables:

### Table **dbo.AWBuildVersion** (1 row)

*Current version number of the AdventureWorks 2014 sample database.*

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	SystemInformationID	tinyint	X		
<i>Primary key for AWBuildVersion records.</i>					
	Database Version	nvarchar(25)			
<i>Version number of the database in 9.yy.mm.dd.00 format.</i>					
	VersionDate	datetime			
<i>Date and time the record was last updated.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

## Indexes:

**PK\_AWBuildVersion\_SystemInformationID** (Primary Key) (Clustered) (100% Selectivity)

*Primary key (clustered) constraint*

SystemInformationID

## Table **dbo.DatabaseLog** (1,597 rows)

Audit table tracking all DDL changes made to the AdventureWorks database. Data is captured by the database trigger *ddlDatabaseTriggerLog*.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	DatabaseLogID	int	X		
<i>Primary key for DatabaseLog records.</i>					
	PostTime	datetime			
<i>The date and time the DDL change occurred.</i>					
	DatabaseUser	sysname(nvarchar(128))			
<i>The user who implemented the DDL change.</i>					
	Event	sysname(nvarchar(128))			
<i>The type of DDL statement that was executed.</i>					
	Schema	sysname(nvarchar(128))		X	
<i>The schema to which the changed object belongs.</i>					
	Object	sysname(nvarchar(128))		X	
<i>The object that was changed by the DDL statement.</i>					
	TSQL	nvarchar(max)			
<i>The exact Transact-SQL statement that was executed.</i>					
	XmlEvent	xml			
<i>The raw XML data generated by database trigger.</i>					

### Indexes:

**PK\_DatabaseLog\_DatabaseLogID** (Primary Key) (0.06% Selectivity)

*Primary key (nonclustered) constraint*

DatabaseLogID

## Table **dbo.ErrorLog** (0 rows)

Audit table tracking errors in the the AdventureWorks database that are caught by the CATCH block of a TRY...CATCH construct. Data is inserted by stored procedure `dbo.uspLogError` when it is executed from inside the CATCH block of a TRY...CATCH construct.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ErrorLogID	int	X		
<i>Primary key for ErrorLog records.</i>					
	ErrorTime	datetime			getdate()
<i>The date and time at which the error occurred.</i>					
	UserName	sysname(nvarchar(128))			
<i>The user who executed the batch in which the error occurred.</i>					
	ErrorNumber	int			
<i>The error number of the error that occurred.</i>					
	ErrorSeverity	int		X	
<i>The severity of the error that occurred.</i>					
	ErrorState	int		X	
<i>The state number of the error that occurred.</i>					
	ErrorProcedure	nvarchar(126)		X	
<i>The name of the stored procedure or trigger where the error occurred.</i>					
	ErrorLine	int		X	
<i>The line number at which the error occurred.</i>					
	ErrorMessage	nvarchar(4000)			
<i>The message text of the error that occurred.</i>					

### Indexes:

#### **PK\_ErrorLog\_ErrorLogID** (Primary Key) (Clustered)

*Primary key (clustered) constraint*

ErrorLogID

### Used by:

#### **Procedure `dbo.uspLogError`**

ErrorLine  
ErrorMessage  
ErrorNumber  
ErrorProcedure  
ErrorSeverity  
ErrorState  
UserName

## **Table HumanResources.Department** (16 rows)

Lookup table containing the departments within the Adventure Works Cycles company.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	DepartmentID	smallint	X		
<i>Primary key for Department records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Name of the department.</i>					
	GroupName	Name(nvarchar(50))			
<i>Name of the group to which the department belongs.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_Department\_DepartmentID** (Primary Key) (Clustered) (6.25% Selectivity)

*Primary key (clustered) constraint*

DepartmentID

**AK\_Department\_Name** (Unique) (6.25% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**HumanResources.EmployeeDepartmentHistory** (DepartmentID)

### **Used by:**

**View HumanResources.vEmployeeDepartment**

DepartmentID  
GroupName  
Name

**View HumanResources.vEmployeeDepartmentHistory**

DepartmentID  
GroupName  
Name

**Table HumanResources.Employee** (290 rows)

Employee information such as salary, department, and title.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key for Employee records. Foreign key to BusinessEntity.BusinessEntityID.</i>				
<b>UK</b>	NationalIDNumber	nvarchar(15)			
	<i>Unique national identification number such as a social security number.</i>				
<b>UK</b>	LoginID	nvarchar(256)			
	<i>Network login.</i>				
	OrganizationNode	hierarchyid		X	
	<i>Where the employee is located in corporate hierarchy.</i>				
	OrganizationLevel	smallint		X	
	<i>The depth of the employee in the corporate hierarchy.</i>				
	JobTitle	nvarchar(50)			
	<i>Work title such as Buyer or Sales Representative.</i>				
	BirthDate	date			
	<i>Date of birth.</i>				
	MaritalStatus	nchar(1)			
	<i>M = Married, S = Single</i>				
	Gender	nchar(1)			
	<i>M = Male, F = Female</i>				
	HireDate	date			
	<i>Employee hired on this date.</i>				
	SalariedFlag	Flag(bit)			1
	<i>Job classification. 0 = Hourly, not exempt from collective bargaining. 1 = Salaried, exempt from collective bargaining.</i>				
	VacationHours	smallint			0
	<i>Number of available vacation hours.</i>				
	SickLeaveHours	smallint			0
	<i>Number of available sick leave hours.</i>				
	CurrentFlag	Flag(bit)			1
	<i>0 = Inactive, 1 = Active</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

**Indexes:**

**PK\_Employee\_BusinessEntityID** (Primary Key) (Clustered) (0.34% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_Employee\_LoginID** (Unique) (0.34% Selectivity)

*Unique nonclustered index.*

LoginID

**AK\_Employee\_NationalIDNumber** (Unique) (0.34% Selectivity)

*Unique nonclustered index.*

NationalIDNumber

**AK\_Employee\_rowguid** (Unique) (0.34% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_Employee\_OrganizationLevel\_OrganizationNode** (0.34% Selectivity)

*Unique nonclustered index.*

OrganizationLevel  
OrganizationNode

**IX\_Employee\_OrganizationNode** (0.34% Selectivity)

*Unique nonclustered index.*

OrganizationNode

**References:**

**Person.Person** (BusinessEntityID)

**Referenced by:**

**HumanResources.EmployeeDepartmentHistory** (BusinessEntityID)

**HumanResources.EmployeePayHistory** (BusinessEntityID)

**HumanResources.JobCandidate** (BusinessEntityID)

**Production.Document** (Owner -> BusinessEntityID)

**Purchasing.PurchaseOrderHeader** (EmployeeID -> BusinessEntityID)

**Sales.SalesPerson** (BusinessEntityID)

**Triggers:**

**dEmployee** (Instead Of Delete)

*INSTEAD OF DELETE trigger which keeps Employees from being deleted.*

**Used by:**

**Function dbo.ufnGetContactInformation**

BusinessEntityID  
JobTitle

**Procedure dbo.uspGetEmployeeManagers**

BusinessEntityID  
JobTitle  
OrganizationNode

**Procedure dbo.uspGetManagerEmployees**

BusinessEntityID  
OrganizationNode

**Procedure HumanResources.uspUpdateEmployeeHireInfo**

BusinessEntityID  
CurrentFlag  
HireDate  
JobTitle

**Procedure HumanResources.uspUpdateEmployeeLogin**

BusinessEntityID  
CurrentFlag  
HireDate  
JobTitle

LoginID  
OrganizationNode

**Procedure HumanResources.uspUpdateEmployeePersonalInfo**

BirthDate  
BusinessEntityID  
Gender  
MaritalStatus  
NationalIDNumber

**View HumanResources.vEmployee**

BusinessEntityID  
JobTitle

**View HumanResources.vEmployeeDepartment**

BusinessEntityID  
JobTitle

**View HumanResources.vEmployeeDepartmentHistory**

BusinessEntityID

**View Sales.vSalesPerson**

BusinessEntityID  
JobTitle

**View Sales.vSalesPersonSalesByFiscalYears**

BusinessEntityID  
JobTitle

**Table HumanResources.EmployeeDepartmentHistory** (296 rows)

Employee department transfers.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Employee identification number. Foreign key to Employee.BusinessEntityID.</i>				
<b>PK, FK</b>	DepartmentID	smallint			
	<i>Department in which the employee worked including currently. Foreign key to Department.DepartmentID.</i>				
<b>PK, FK</b>	ShiftID	tinyint			
	<i>Identifies which 8-hour shift the employee works. Foreign key to Shift.Shift.ID.</i>				
<b>PK</b>	StartDate	date			
	<i>Date the employee started work in the department.</i>				
	EndDate	date		X	
	<i>Date the employee left the department. NULL = Current department.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

**Indexes:**

**PK\_EmployeeDepartmentHistory\_BusinessEntityID\_StartDate\_DepartmentID** (Primary Key) (Clustered) (0.34% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
 StartDate  
 DepartmentID  
 ShiftID

**IX\_EmployeeDepartmentHistory\_DepartmentID** (6.25% Selectivity)

*Nonclustered index.*

DepartmentID

**IX\_EmployeeDepartmentHistory\_ShiftID** (33.33% Selectivity)

*Nonclustered index.*

ShiftID

**References:**

**HumanResources.Department** (DepartmentID)

**HumanResources.Employee** (BusinessEntityID)

**HumanResources.Shift** (ShiftID)

**Used by:**

**View HumanResources.vEmployeeDepartment**

BusinessEntityID  
 DepartmentID  
 EndDate  
 StartDate

**View HumanResources.vEmployeeDepartmentHistory**

BusinessEntityID  
 DepartmentID  
 EndDate  
 ShiftID



StartDate

## Table **HumanResources.EmployeePayHistory** (316 rows)

*Employee pay history.*

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Employee identification number. Foreign key to Employee.BusinessEntityID.</i>				
<b>PK</b>	RateChangeDate	datetime			
	<i>Date the change in pay is effective</i>				
	Rate	money			
	<i>Salary hourly rate.</i>				
	PayFrequency	tinyint			
	<i>1 = Salary received monthly, 2 = Salary received biweekly</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_EmployeePayHistory\_BusinessEntityID\_RateChangeDate** (Primary Key) (Clustered) (0.32% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
RateChangeDate

### References:

**HumanResources.Employee** (BusinessEntityID)

### Used by:

**Procedure HumanResources.uspUpdateEmployeeHireInfo**

BusinessEntityID  
PayFrequency  
Rate  
RateChangeDate

## **Table HumanResources.JobCandidate** (13 rows)

*Résumés submitted to Human Resources by job applicants.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	JobCandidateID	int	X		
<i>Primary key for JobCandidate records.</i>					
<b>FK</b>	BusinessEntityID	int		X	
<i>Employee identification number if applicant was hired. Foreign key to Employee.BusinessEntityID.</i>					
	Resume	xml		X	
<i>Résumé in XML format.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_JobCandidate\_JobCandidateID** (Primary Key) (Clustered) (7.69% Selectivity)

*Primary key (clustered) constraint*

JobCandidateID

**IX\_JobCandidate\_BusinessEntityID** (33.33% Selectivity)

*Nonclustered index.*

BusinessEntityID

### **References:**

**HumanResources.Employee** (BusinessEntityID)

### **Used by:**

#### **Procedure dbo.uspSearchCandidateResumes**

JobCandidateID  
Resume

#### **View HumanResources.vJobCandidate**

BusinessEntityID  
JobCandidateID  
ModifiedDate  
Resume

#### **View HumanResources.vJobCandidateEducation**

JobCandidateID  
Resume

#### **View HumanResources.vJobCandidateEmployment**

JobCandidateID  
Resume

## Table **HumanResources.Shift** (3 rows)

Work shift lookup table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ShiftID	tinyint	X		
<i>Primary key for Shift records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Shift description.</i>					
<b>UK</b>	StartTime	time			
<i>Shift start time.</i>					
<b>UK</b>	EndTime	time			
<i>Shift end time.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Shift\_ShiftID** (Primary Key) (Clustered) (33.33% Selectivity)

*Primary key (clustered) constraint*

ShiftID

**AK\_Shift\_Name** (Unique) (33.33% Selectivity)

*Unique nonclustered index.*

Name

**AK\_Shift\_StartTime\_EndTime** (Unique) (33.33% Selectivity)

*Unique nonclustered index.*

StartTime

EndTime

### Referenced by:

**HumanResources.EmployeeDepartmentHistory** (ShiftID)

### Used by:

**View HumanResources.vEmployeeDepartmentHistory**

Name

ShiftID

## Table **Person.Address** (19,614 rows)

Street address information for customers, employees, and vendors.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	AddressID	int	X		
	<i>Primary key for Address records.</i>				
<b>UK</b>	AddressLine1	nvarchar(60)			
	<i>First street address line.</i>				
<b>UK</b>	AddressLine2	nvarchar(60)		X	
	<i>Second street address line.</i>				
<b>UK</b>	City	nvarchar(30)			
	<i>Name of the city.</i>				
<b>UK, FK</b>	StateProvinceID	int			
	<i>Unique identification number for the state or province. Foreign key to StateProvince table.</i>				
<b>UK</b>	PostalCode	nvarchar(15)			
	<i>Postal code for the street address.</i>				
	SpatialLocation	geography		X	
	<i>Latitude and longitude of this address.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_Address\_AddressID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

AddressID

**AK\_Address\_rowguid** (Unique) (0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_Address\_AddressLine1\_AddressLine2\_City\_StateProvinceID\_PostalCode** (Unique) (0.01% Selectivity)

*Nonclustered index.*

AddressLine1  
AddressLine2  
City  
StateProvinceID  
PostalCode

**IX\_Address\_StateProvinceID** (1.35% Selectivity)

*Nonclustered index.*

StateProvinceID

### References:

**Person.StateProvince** (StateProvinceID)

### Referenced by:

**Person.BusinessEntityAddress** (AddressID)

**Sales.SalesOrderHeader** (BillToAddressID -> AddressID)

**Sales.SalesOrderHeader** (*ShipToAddressID -> AddressID*)

**Used by:**

**View HumanResources.vEmployee**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

**View Purchasing.vVendorWithAddresses**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

**View Sales.vIndividualCustomer**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

**View Sales.vSalesPerson**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

**View Sales.vStoreWithAddresses**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

## Table **Person.AddressType** (6 rows)

Types of addresses stored in the Address table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	AddressTypeID	int	X		
<i>Primary key for AddressType records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Address type description. For example, Billing, Home, or Shipping.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_AddressType\_AddressTypeID** (Primary Key) (Clustered) (16.67% Selectivity)

*Primary key (clustered) constraint*

AddressTypeID

**AK\_AddressType\_Name** (Unique) (16.67% Selectivity)

*Unique nonclustered index.*

Name

**AK\_AddressType\_rowguid** (Unique) (16.67% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### Referenced by:

**Person.BusinessEntityAddress** (AddressTypeID)

### Used by:

#### **View Purchasing.vVendorWithAddresses**

AddressTypeID  
Name

#### **View Sales.vIndividualCustomer**

AddressTypeID  
Name

#### **View Sales.vStoreWithAddresses**

AddressTypeID  
Name

## **Table Person.BusinessEntity** (20,777 rows)

Source of the ID that connects vendors, customers, and employees with address and contact information.

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	BusinessEntityID	int	X		
<i>Primary key for all customers, vendors, and employees.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_BusinessEntity\_BusinessEntityID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_BusinessEntity\_rowguid** (Unique) (< 0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### **Referenced by:**

**Person.BusinessEntityAddress** (BusinessEntityID)

**Person.BusinessEntityContact** (BusinessEntityID)

**Person.Person** (BusinessEntityID)

**Purchasing.Vendor** (BusinessEntityID)

**Sales.Store** (BusinessEntityID)



## Table **Person.BusinessEntityAddress** (19,614 rows)

Cross-reference table mapping customers, vendors, and employees to their addresses.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key. Foreign key to BusinessEntity.BusinessEntityID.</i>				
<b>PK, FK</b>	AddressID	int			
	<i>Primary key. Foreign key to Address.AddressID.</i>				
<b>PK, FK</b>	AddressTypeID	int			
	<i>Primary key. Foreign key to AddressType.AddressTypeID.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_BusinessEntityAddress\_BusinessEntityID\_AddressID\_AddressTypeID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
AddressID  
AddressTypeID

**AK\_BusinessEntityAddress\_rowguid** (Unique) (0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_BusinessEntityAddress\_AddressID** (0.01% Selectivity)

*Nonclustered index.*

AddressID

**IX\_BusinessEntityAddress\_AddressTypeID** (33.33% Selectivity)

*Nonclustered index.*

AddressTypeID

### References:

**Person.Address** (AddressID)

**Person.AddressType** (AddressTypeID)

**Person.BusinessEntity** (BusinessEntityID)

### Used by:

**View HumanResources.vEmployee**

AddressID  
BusinessEntityID

**View Purchasing.vVendorWithAddresses**

AddressID  
AddressTypeID  
BusinessEntityID

**View Sales.vIndividualCustomer**

AddressID  
AddressTypeID  
BusinessEntityID

**View Sales.vSalesPerson**

AddressID  
BusinessEntityID

**View Sales.vStoreWithAddresses**

AddressID  
AddressTypeID  
BusinessEntityID

## Table **Person.BusinessEntityContact** (909 rows)

Cross-reference table mapping stores, vendors, and employees to people

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key. Foreign key to BusinessEntity.BusinessEntityID.</i>				
<b>PK, FK</b>	PersonID	int			
	<i>Primary key. Foreign key to Person.BusinessEntityID.</i>				
<b>PK, FK</b>	ContactTypeID	int			
	<i>Primary key. Foreign key to ContactType.ContactTypeID.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_BusinessEntityContact\_BusinessEntityID\_PersonID\_ContactTypeID** (Primary Key) (Clustered) (0.11% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
PersonID  
ContactTypeID

**AK\_BusinessEntityContact\_rowguid** (Unique) (0.11% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_BusinessEntityContact\_ContactTypeID** (14.29% Selectivity)

*Nonclustered index.*

ContactTypeID

**IX\_BusinessEntityContact\_PersonID** (0.11% Selectivity)

*Nonclustered index.*

PersonID

### References:

**Person.BusinessEntity** (BusinessEntityID)

**Person.ContactType** (ContactTypeID)

**Person.Person** (PersonID -> BusinessEntityID)

### Used by:

**Function dbo.ufnGetContactInformation**

BusinessEntityID  
ContactTypeID  
PersonID

**View Purchasing.vVendorWithContacts**

BusinessEntityID  
ContactTypeID  
PersonID

**View Sales.vStoreWithContacts**

BusinessEntityID  
ContactTypeID  
PersonID

## **Table Person.ContactType** (20 rows)

Lookup table containing the types of business entity contacts.

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ContactTypeID	int	X		
<i>Primary key for ContactType records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Contact type description.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ContactType\_ContactTypeID** (Primary Key) (Clustered) (5% Selectivity)

*Primary key (clustered) constraint*

ContactTypeID

**AK\_ContactType\_Name** (Unique) (5% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Person.BusinessEntityContact** (ContactTypeID)

### **Used by:**

**Function dbo.ufnGetContactInformation**

ContactTypeID  
Name

**View Purchasing.vVendorWithContacts**

ContactTypeID  
Name

**View Sales.vStoreWithContacts**

ContactTypeID  
Name

## **Table Person.CountryRegion** (238 rows)

Lookup table containing the ISO standard codes for countries and regions.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	CountryRegionCode	nvarchar(3)			
<i>ISO standard code for countries and regions.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Country or region name.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_CountryRegion\_CountryRegionCode** (Primary Key) (Clustered) (0.42% Selectivity)

*Primary key (clustered) constraint*

CountryRegionCode

**AK\_CountryRegion\_Name** (Unique) (0.42% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Person.StateProvince** (CountryRegionCode)

**Sales.CountryRegionCurrency** (CountryRegionCode)

**Sales.SalesTerritory** (CountryRegionCode)

### **Used by:**

#### **View HumanResources.vEmployee**

CountryRegionCode  
Name

#### **View Person.vStateProvinceCountryRegion**

CountryRegionCode  
Name

#### **View Purchasing.vVendorWithAddresses**

CountryRegionCode  
Name

#### **View Sales.vIndividualCustomer**

CountryRegionCode  
Name

#### **View Sales.vSalesPerson**

CountryRegionCode  
Name

#### **View Sales.vStoreWithAddresses**

CountryRegionCode  
Name

## Table **Person.EmailAddress** (19,972 rows)

Where to send a person email.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
<i>Primary key. Person associated with this email address. Foreign key to Person.BusinessEntityID</i>					
<b>PK</b>	EmailAddressID	int	X		
<i>Primary key. ID of this email address.</i>					
	EmailAddress	nvarchar(50)		X	
<i>E-mail address for the person.</i>					
	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_EmailAddress\_BusinessEntityID\_EmailAddressID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
EmailAddressID

**IX\_EmailAddress\_EmailAddress** (0.01% Selectivity)

*Nonclustered index.*

EmailAddress

### References:

**Person.Person** (BusinessEntityID)

### Used by:

#### **View HumanResources.vEmployee**

BusinessEntityID  
EmailAddress

#### **View Purchasing.vVendorWithContacts**

BusinessEntityID  
EmailAddress

#### **View Sales.vIndividualCustomer**

BusinessEntityID  
EmailAddress

#### **View Sales.vSalesPerson**

BusinessEntityID  
EmailAddress

#### **View Sales.vStoreWithContacts**

BusinessEntityID  
EmailAddress

## Table **Person.Password** (19,972 rows)

One way hashed authentication information

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	PasswordHash	varchar(128)			
<i>Password for the e-mail account.</i>					
	PasswordSalt	varchar(10)			
<i>Random value concatenated with the password string before the password is hashed.</i>					
	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Password\_BusinessEntityID** (Primary Key) (Clustered) (0.01% Selectivity)

Primary key (clustered) constraint

BusinessEntityID

### References:

**Person.Person** (BusinessEntityID)



## Table Person.Person (19,972 rows)

Human beings involved with AdventureWorks: employees, customer contacts, and vendor contacts.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key for Person records.</i>				
	PersonType	nchar(2)			
	<i>Primary type of person: SC = Store Contact, IN = Individual (retail) customer, SP = Sales person, EM = Employee (non-sales), VC = Vendor contact, GC = General contact</i>				
	NameStyle	NameStyle(bit)			0
	<i>0 = The data in FirstName and LastName are stored in western style (first name, last name) order. 1 = Eastern style (last name, first name) order.</i>				
	Title	nvarchar(8)		X	
	<i>A courtesy title. For example, Mr. or Ms.</i>				
	FirstName	Name(nvarchar(50))			
	<i>First name of the person.</i>				
	MiddleName	Name(nvarchar(50))		X	
	<i>Middle name or middle initial of the person.</i>				
	LastName	Name(nvarchar(50))			
	<i>Last name of the person.</i>				
	Suffix	nvarchar(10)		X	
	<i>Surname suffix. For example, Sr. or Jr.</i>				
	EmailPromotion	int			0
	<i>0 = Contact does not wish to receive e-mail promotions, 1 = Contact does wish to receive e-mail promotions from AdventureWorks, 2 = Contact does wish to receive e-mail promotions from AdventureWorks and selected partners.</i>				
	AdditionalContactInfo	xml		X	
	<i>Additional contact information about the person stored in xml format.</i>				
	Demographics	xml		X	
	<i>Personal information such as hobbies, and income collected from online shoppers. Used for sales analysis.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_Person\_BusinessEntityID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_Person\_rowguid** (Unique) (0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**PXML\_Person\_AddContact** (XML)

*Primary XML index.*

AdditionalContactInfo

**PXML\_Person\_Demographics** (XML)

*Primary XML index.*

Demographics

**XMLPATH\_Person\_Demographics (XML)**

*Secondary XML index for path.*

Demographics

**XMLPROPERTY\_Person\_Demographics (XML)**

*Secondary XML index for property.*

Demographics

**XMLVALUE\_Person\_Demographics (XML)**

*Secondary XML index for value.*

Demographics

**IX\_Person\_LastName\_FirstName\_MiddleName (0.01% Selectivity)**

LastName  
FirstName  
MiddleName

**References:**

**Person.BusinessEntity** (*BusinessEntityID*)

**Referenced by:**

**HumanResources.Employee** (*BusinessEntityID*)

**Person.BusinessEntityContact** (*PersonID -> BusinessEntityID*)

**Person.EmailAddress** (*BusinessEntityID*)

**Person.Password** (*BusinessEntityID*)

**Person.PersonPhone** (*BusinessEntityID*)

**Sales.Customer** (*PersonID -> BusinessEntityID*)

**Sales.PersonCreditCard** (*BusinessEntityID*)

**Triggers:**

**iuPerson** (*After Insert, Update*)

*AFTER INSERT, UPDATE trigger inserting Individual only if the Customer does not exist in the Store table and setting the ModifiedDate column in the Person table to the current date.*

**Used by:**

**Function dbo.ufnGetContactInformation**

BusinessEntityID  
FirstName  
LastName

**Procedure dbo.uspGetEmployeeManagers**

BusinessEntityID  
FirstName  
LastName

**Procedure dbo.uspGetManagerEmployees**

BusinessEntityID  
FirstName  
LastName

**Trigger iduSalesOrderDetail on Sales.SalesOrderDetail**

BusinessEntityID  
Demographics

**View HumanResources.vEmployee**

AdditionalContactInfo  
BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View HumanResources.vEmployeeDepartment**

BusinessEntityID  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View HumanResources.vEmployeeDepartmentHistory**

BusinessEntityID  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View Person.vAdditionalContactInfo**

AdditionalContactInfo  
BusinessEntityID  
FirstName  
LastName  
MiddleName  
ModifiedDate  
rowguid

**View Purchasing.vVendorWithContacts**

BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View Sales.vIndividualCustomer**

BusinessEntityID  
Demographics  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View Sales.vPersonDemographics**

BusinessEntityID  
Demographics

**View Sales.vSalesPerson**

BusinessEntityID

EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

**View Sales.vSalesPersonSalesByFiscalYears**

BusinessEntityID  
FirstName  
LastName  
MiddleName

**View Sales.vStoreWithContacts**

BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

## Table **Person.PersonPhone** (19,972 rows)

Telephone number and type of a person.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Business entity identification number. Foreign key to Person.BusinessEntityID.</i>				
<b>PK</b>	PhoneNumber	Phone(nvarchar(25))			
	<i>Telephone number identification number.</i>				
<b>PK, FK</b>	PhoneNumberTypeID	int			
	<i>Kind of phone number. Foreign key to PhoneNumberType.PhoneNumberTypeID.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_PersonPhone\_BusinessEntityID\_PhoneNumber\_PhoneNumberTypeID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

**IX\_PersonPhone\_PhoneNumber** (0.01% Selectivity)

*Nonclustered index.*

PhoneNumber

### References:

**Person.Person** (BusinessEntityID)

**Person.PhoneNumberType** (PhoneNumberTypeID)

### Used by:

#### **View HumanResources.vEmployee**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **View Purchasing.vVendorWithContacts**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **View Sales.vIndividualCustomer**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **View Sales.vSalesPerson**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **View Sales.vStoreWithContacts**

BusinessEntityID  
PhoneNumber

PhoneNumberTypeID

## **Table Person.PhoneNumberType** (3 rows)

Type of phone number of a person.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	PhoneNumberTypeID	int	X		
<i>Primary key for telephone number type records.</i>					
	Name	Name(nvarchar(50))			
<i>Name of the telephone number type</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_PhoneNumberType\_PhoneNumberTypeID** (Primary Key) (Clustered) (33.33% Selectivity)

*Primary key (clustered) constraint*

PhoneNumberTypeID

### **Referenced by:**

**Person.PersonPhone** (PhoneNumberTypeID)

### **Used by:**

#### **View HumanResources.vEmployee**

Name  
PhoneNumberTypeID

#### **View Purchasing.vVendorWithContacts**

Name  
PhoneNumberTypeID

#### **View Sales.vIndividualCustomer**

Name  
PhoneNumberTypeID

#### **View Sales.vSalesPerson**

Name  
PhoneNumberTypeID

#### **View Sales.vStoreWithContacts**

Name  
PhoneNumberTypeID

## Table **Person.StateProvince** (181 rows)

State and province lookup table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	StateProvinceID	int	X		
<i>Primary key for StateProvince records.</i>					
<b>UK</b>	StateProvinceCode	nchar(3)			
<i>ISO standard state or province code.</i>					
<b>UK, FK</b>	CountryRegionCode	nvarchar(3)			
<i>ISO standard country or region code. Foreign key to CountryRegion.CountryRegionCode.</i>					
	IsOnlyStateProvinceFlag	Flag(bit)			1
<i>0 = StateProvinceCode exists. 1 = StateProvinceCode unavailable, using CountryRegionCode.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>State or province description.</i>					
<b>FK</b>	TerritoryID	int			
<i>ID of the territory in which the state or province is located. Foreign key to SalesTerritory.SalesTerritoryID.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_StateProvince\_StateProvinceID** (Primary Key) (Clustered) (0.55% Selectivity)

*Primary key (clustered) constraint*

StateProvinceID

**AK\_StateProvince\_Name** (Unique) (0.55% Selectivity)

*Unique nonclustered index.*

Name

**AK\_StateProvince\_rowguid** (Unique) (0.55% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**AK\_StateProvince\_StateProvinceCode\_CountryRegionCode** (Unique) (0.55% Selectivity)

*Unique nonclustered index.*

StateProvinceCode  
CountryRegionCode

### References:

**Person.CountryRegion** (CountryRegionCode)

**Sales.SalesTerritory** (TerritoryID)

### Referenced by:

**Person.Address** (StateProvinceID)

**Sales.SalesTaxRate** (StateProvinceID)



**Used by:**

**View HumanResources.vEmployee**

CountryRegionCode  
Name  
StateProvinceID

**View Person.vStateProvinceCountryRegion**

CountryRegionCode  
IsOnlyStateProvinceFlag  
Name  
StateProvinceCode  
StateProvinceID  
TerritoryID

**View Purchasing.vVendorWithAddresses**

CountryRegionCode  
Name  
StateProvinceID

**View Sales.vIndividualCustomer**

CountryRegionCode  
Name  
StateProvinceID

**View Sales.vSalesPerson**

CountryRegionCode  
Name  
StateProvinceID

**View Sales.vStoreWithAddresses**

CountryRegionCode  
Name  
StateProvinceID

## Table **Production.BillOfMaterials** (2,679 rows)

Items required to make bicycles and bicycle subassemblies. It identifies the heirarchical relationship between a parent product and its components.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	BillOfMaterialsID	int	X		
<i>Primary key for BillOfMaterials records.</i>					
<b>UK, FK</b>	ProductAssemblyID	int		X	
<i>Parent product identification number. Foreign key to Product.ProductID.</i>					
<b>UK, FK</b>	ComponentID	int			
<i>Component identification number. Foreign key to Product.ProductID.</i>					
<b>UK</b>	StartDate	datetime			getdate()
<i>Date the component started being used in the assembly item.</i>					
	EndDate	datetime		X	
<i>Date the component stopped being used in the assembly item.</i>					
<b>FK</b>	UnitMeasureCode	nchar(3)			
<i>Standard code identifying the unit of measure for the quantity.</i>					
	BOMLevel	smallint			
<i>Indicates the depth the component is from its parent (AssemblyID).</i>					
	PerAssemblyQty	decimal(8,2)			1.00
<i>Quantity of the component needed to create the assembly.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_BillOfMaterials\_BillOfMaterialsID** (Primary Key) (0.04% Selectivity)

*Primary key (clustered) constraint*

BillOfMaterialsID

**AK\_BillOfMaterials\_ProductAssemblyID\_ComponentID\_StartDate** (Unique) (Clustered) (0.04% Selectivity)

*Clustered index.*

ProductAssemblyID  
ComponentID  
StartDate

**IX\_BillOfMaterials\_UnitMeasureCode** (33.33% Selectivity)

*Nonclustered index.*

UnitMeasureCode

### References:

**Production.Product** (ComponentID -> ProductID)

**Production.Product** (ProductAssemblyID -> ProductID)

**Production.UnitMeasure** (UnitMeasureCode)

### Used by:

**Procedure dbo.uspGetBillOfMaterials**

BOMLevel  
ComponentID  
EndDate  
PerAssemblyQty  
ProductAssemblyID  
StartDate

**Procedure dbo.uspGetWhereUsedProductID**

BOMLevel  
ComponentID  
EndDate  
PerAssemblyQty  
ProductAssemblyID  
StartDate

## **Table Production.Culture** (8 rows)

Lookup table containing the languages in which some AdventureWorks data is stored.

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	CultureID	nchar(6)			
<i>Primary key for Culture records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Culture description.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_Culture\_CultureID** (Primary Key) (Clustered) (12.5% Selectivity)

*Primary key (clustered) constraint*

CultureID

**AK\_Culture\_Name** (Unique) (12.5% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Production.ProductModelProductDescriptionCulture** (CultureID)

**Table Production.Document** (13 rows)

Product maintenance documents.

	Column	Data Type	Identity	Nullable	Default
<b>PK, UK</b>	DocumentNode	hierarchyid			
	<i>Primary key for Document records.</i>				
<b>UK</b>	DocumentLevel	smallint		X	
	<i>Depth in the document hierarchy.</i>				
	Title	nvarchar(50)			
	<i>Title of the document.</i>				
<b>FK</b>	Owner	int			
	<i>Employee who controls the document. Foreign key to Employee.BusinessEntityID</i>				
	FolderFlag	bit			0
	<i>0 = This is a folder, 1 = This is a document.</i>				
	FileName	nvarchar(400)			
	<i>File name of the document</i>				
	FileExtension	nvarchar(8)			
	<i>File extension indicating the document type. For example, .doc or .txt.</i>				
	Revision	nchar(5)			
	<i>Revision number of the document.</i>				
	ChangeNumber	int			0
	<i>Engineering change approval number.</i>				
	Status	tinyint			
	<i>1 = Pending approval, 2 = Approved, 3 = Obsolete</i>				
	DocumentSummary	nvarchar(max)		X	
	<i>Document abstract.</i>				
	Document	varbinary(max)		X	
	<i>Complete document.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Required for FileStream.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

**Indexes:**

**PK\_Document\_DocumentNode** (Primary Key) (Clustered) (7.69% Selectivity)

*Primary key (clustered) constraint*

DocumentNode

**AK\_Document\_DocumentLevel\_DocumentNode** (Unique) (7.69% Selectivity)

*Unique nonclustered index.*

DocumentLevel  
DocumentNode

**AK\_Document\_rowguid** (Unique) (7.69% Selectivity)

*Unique nonclustered index. Used to support FileStream.*

rowguid

**UQ\_\_Document\_\_F73921F763026E5E** (Unique) (7.69% Selectivity)

rowguid

**IX\_Document\_FileName\_Revision** (7.69% Selectivity)

*Unique nonclustered index.*

FileName

Revision

**References:**

**HumanResources.Employee** (*Owner -> BusinessEntityID*)

**Referenced by:**

**Production.ProductDocument** (*DocumentNode*)

## **Table Production.Illustration** (5 rows)

*Bicycle assembly diagrams.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	IllustrationID	int	X		
<i>Primary key for Illustration records.</i>					
	Diagram	xml		X	
<i>Illustrations used in manufacturing instructions. Stored as XML.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_Illustration\_IllustrationID** (Primary Key) (Clustered) (20% Selectivity)

*Primary key (clustered) constraint*

IllustrationID

### **Referenced by:**

**Production.ProductModelIllustration** (IllustrationID)

## Table **Production.Location** (14 rows)

*Product inventory and manufacturing locations.*

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	LocationID	smallint	X		
<i>Primary key for Location records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Location description.</i>					
	CostRate	smallmoney			0.00
<i>Standard hourly cost of the manufacturing location.</i>					
	Availability	decimal(8,2)			0.00
<i>Work capacity (in hours) of the manufacturing location.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Location\_LocationID** (Primary Key) (Clustered) (7.14% Selectivity)

*Primary key (clustered) constraint*

LocationID

**AK\_Location\_Name** (Unique) (7.14% Selectivity)

*Unique nonclustered index.*

Name

### Referenced by:

**Production.ProductInventory** (LocationID)

**Production.WorkOrderRouting** (LocationID)



## Table Production.Product (504 rows)

Products sold or used in the manufacturing of sold products.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ProductID	int	X		
	<i>Primary key for Product records.</i>				
<b>UK</b>	Name	Name(nvarchar(50))			
	<i>Name of the product.</i>				
<b>UK</b>	ProductNumber	nvarchar(25)			
	<i>Unique product identification number.</i>				
	MakeFlag	Flag(bit)			1
	<i>0 = Product is purchased, 1 = Product is manufactured in-house.</i>				
	FinishedGoodsFlag	Flag(bit)			1
	<i>0 = Product is not a salable item. 1 = Product is salable.</i>				
	Color	nvarchar(15)		X	
	<i>Product color.</i>				
	SafetyStockLevel	smallint			
	<i>Minimum inventory quantity.</i>				
	ReorderPoint	smallint			
	<i>Inventory level that triggers a purchase order or work order.</i>				
	StandardCost	money			
	<i>Standard cost of the product.</i>				
	ListPrice	money			
	<i>Selling price.</i>				
	Size	nvarchar(5)		X	
	<i>Product size.</i>				
<b>FK</b>	SizeUnitMeasureCode	nchar(3)		X	
	<i>Unit of measure for Size column.</i>				
<b>FK</b>	WeightUnitMeasureCode	nchar(3)		X	
	<i>Unit of measure for Weight column.</i>				
	Weight	decimal(8,2)		X	
	<i>Product weight.</i>				
	DaysToManufacture	int			
	<i>Number of days required to manufacture the product.</i>				
	ProductLine	nchar(2)		X	
	<i>R = Road, M = Mountain, T = Touring, S = Standard</i>				
	Class	nchar(2)		X	
	<i>H = High, M = Medium, L = Low</i>				
	Style	nchar(2)		X	
	<i>W = Womens, M = Mens, U = Universal</i>				
<b>FK</b>	ProductSubcategoryID	int		X	
	<i>Product is a member of this product subcategory. Foreign key to ProductSubCategory.ProductSubCategoryID.</i>				
<b>FK</b>	ProductModelID	int		X	
	<i>Product is a member of this product model. Foreign key to ProductModel.ProductModelID.</i>				
	SellStartDate	datetime			
	<i>Date the product was available for sale.</i>				
	SellEndDate	datetime		X	
	<i>Date the product was no longer available for sale.</i>				
	DiscontinuedDate	datetime		X	
	<i>Date the product was discontinued.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

## Indexes:

**PK\_Product\_ProductID** (Primary Key) (Clustered) (0.2% Selectivity)

*Primary key (clustered) constraint*

ProductID

**AK\_Product\_Name** (Unique) (0.2% Selectivity)

*Unique nonclustered index.*

Name

**AK\_Product\_ProductNumber** (Unique) (0.2% Selectivity)

*Unique nonclustered index.*

ProductNumber

**AK\_Product\_rowguid** (Unique) (0.2% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

## References:

**Production.ProductModel** (ProductModelID)

**Production.ProductSubcategory** (ProductSubcategoryID)

**Production.UnitMeasure** (SizeUnitMeasureCode -> UnitMeasureCode)

**Production.UnitMeasure** (WeightUnitMeasureCode -> UnitMeasureCode)

## Referenced by:

**Production.BillOfMaterials** (ComponentID -> ProductID)

**Production.BillOfMaterials** (ProductAssemblyID -> ProductID)

**Production.ProductCostHistory** (ProductID)

**Production.ProductDocument** (ProductID)

**Production.ProductInventory** (ProductID)

**Production.ProductListPriceHistory** (ProductID)

**Production.ProductProductPhoto** (ProductID)

**Production.ProductReview** (ProductID)

**Production.TransactionHistory** (ProductID)

**Production.WorkOrder** (ProductID)

**Purchasing.ProductVendor** (ProductID)

**Purchasing.PurchaseOrderDetail** (ProductID)

**Sales.ShoppingCartItem** (ProductID)

**Sales.SpecialOfferProduct** (ProductID)

## Used by:

**Function dbo.ufnGetProductDealerPrice**

ProductID

**Function dbo.ufnGetProductListPrice**

ProductID

**Function dbo.ufnGetProductStandardCost**

ProductID

**Procedure dbo.uspGetBillOfMaterials**

ListPrice  
Name  
ProductID  
StandardCost

**Procedure dbo.uspGetWhereUsedProductID**

ListPrice  
Name  
ProductID  
StandardCost

**View Production.vProductAndDescription**

Name  
ProductID  
ProductModelID

## **Table Production.ProductCategory (4 rows)**

*High-level product categorization.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ProductCategoryID	int	X		
<i>Primary key for ProductCategory records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Category description.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ProductCategory\_ProductCategoryID** (Primary Key) (Clustered) (25% Selectivity)

*Primary key (clustered) constraint*

ProductCategoryID

**AK\_ProductCategory\_Name** (Unique) (25% Selectivity)

*Unique nonclustered index.*

Name

**AK\_ProductCategory\_rowguid** (Unique) (25% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### **Referenced by:**

**Production.ProductSubcategory** (ProductCategoryID)

## Table **Production.ProductCostHistory** (395 rows)

*Changes in the cost of a product over time.*

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID</i>				
<b>PK</b>	StartDate	datetime			
	<i>Product cost start date.</i>				
	EndDate	datetime		X	
	<i>Product cost end date.</i>				
	StandardCost	money			
	<i>Standard cost of the product.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_ProductCostHistory\_ProductID\_StartDate** (Primary Key) (Clustered) (0.25% Selectivity)

*Primary key (clustered) constraint*

ProductID  
StartDate

### References:

**Production.Product** (ProductID)

### Used by:

**Function dbo.ufnGetProductStandardCost**

EndDate  
ProductID  
StandardCost  
StartDate

## Table **Production.ProductDescription** (762 rows)

*Product descriptions in several languages.*

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ProductDescriptionID	int	X		
<i>Primary key for ProductDescription records.</i>					
	Description	nvarchar(400)			
<i>Description of the product.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_ProductDescription\_ProductDescriptionID** (Primary Key) (Clustered) (0.13% Selectivity)

*Primary key (clustered) constraint*

ProductDescriptionID

**AK\_ProductDescription\_rowguid** (Unique) (0.13% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### Referenced by:

**Production.ProductModelProductDescriptionCulture** (ProductDescriptionID)

### Used by:

**View Production.vProductAndDescription**

Description

ProductDescriptionID

## **Table Production.ProductDocument** (32 rows)

*Cross-reference table mapping products to related product documents.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID.</i>				
<b>PK, FK</b>	DocumentNode	hierarchyid			
	<i>Document identification number. Foreign key to Document.DocumentNode.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_ProductDocument\_ProductID\_DocumentNode** (Primary Key) (Clustered) (3.13% Selectivity)

*Primary key (clustered) constraint*

ProductID  
DocumentNode

### **References:**

**Production.Document** (DocumentNode)

**Production.Product** (ProductID)

## Table **Production.ProductInventory** (1,069 rows)

Product inventory information.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID.</i>				
<b>PK, FK</b>	LocationID	smallint			
	<i>Inventory location identification number. Foreign key to Location.LocationID.</i>				
	Shelf	nvarchar(10)			
	<i>Storage compartment within an inventory location.</i>				
	Bin	tinyint			
	<i>Storage container on a shelf in an inventory location.</i>				
	Quantity	smallint			0
	<i>Quantity of products in the inventory location.</i>				
	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_ProductInventory\_ProductID\_LocationID** (Primary Key) (Clustered) (0.09% Selectivity)

*Primary key (clustered) constraint*

ProductID  
LocationID

### References:

**Production.Location** (LocationID)

**Production.Product** (ProductID)

### Used by:

**Function dbo.ufnGetStock**

LocationID  
ProductID  
Quantity



## Table **Production.ProductListPriceHistory** (395 rows)

Changes in the list price of a product over time.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID</i>				
<b>PK</b>	StartDate	datetime			
	<i>List price start date.</i>				
	EndDate	datetime		X	
	<i>List price end date</i>				
	ListPrice	money			
	<i>Product list price.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_ProductListPriceHistory\_ProductID\_StartDate** (Primary Key) (Clustered) (0.25% Selectivity)

*Primary key (clustered) constraint*

ProductID  
StartDate

### References:

**Production.Product** (ProductID)

### Used by:

**Function dbo.ufnGetProductDealerPrice**

EndDate  
ListPrice  
ProductID  
StartDate

**Function dbo.ufnGetProductListPrice**

EndDate  
ListPrice  
ProductID  
StartDate

## Table **Production.ProductModel** (128 rows)

*Product model classification.*

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ProductModelID	int	X		
<i>Primary key for ProductModel records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Product model description.</i>					
	CatalogDescription	xml		X	
<i>Detailed product catalog information in xml format.</i>					
	Instructions	xml		X	
<i>Manufacturing instructions in xml format.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_ProductModel\_ProductModelID** (Primary Key) (Clustered) (0.78% Selectivity)

*Primary key (clustered) constraint*

ProductModelID

**AK\_ProductModel\_Name** (Unique) (0.78% Selectivity)

*Unique nonclustered index.*

Name

**AK\_ProductModel\_rowguid** (Unique) (0.78% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**PXML\_ProductModel\_CatalogDescription** (XML)

*Primary XML index.*

CatalogDescription

**PXML\_ProductModel\_Instructions** (XML)

*Primary XML index.*

Instructions

### Referenced by:

**Production.Product** (ProductModelID)

**Production.ProductModelIllustration** (ProductModelID)

**Production.ProductModelProductDescriptionCulture** (ProductModelID)

### Used by:

**View Production.vProductAndDescription**

Name  
ProductModelID

**View Production.vProductModelCatalogDescription**

CatalogDescription  
ModifiedDate  
Name  
ProductModelID  
rowguid

**View Production.vProductModelInstructions**

Instructions  
ModifiedDate  
Name  
ProductModelID  
rowguid

## **Table Production.ProductModelIllustration** (7 rows)

*Cross-reference table mapping product models and illustrations.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	ProductModelID	int			
	<i>Primary key. Foreign key to ProductModel.ProductModelID.</i>				
<b>PK, FK</b>	IllustrationID	int			
	<i>Primary key. Foreign key to Illustration.IllustrationID.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_ProductModelIllustration\_ProductModelID\_IllustrationID** (Primary Key) (Clustered) (14.29% Selectivity)

*Primary key (clustered) constraint*

ProductModelID  
IllustrationID

### **References:**

**Production.Illustration** (IllustrationID)

**Production.ProductModel** (ProductModelID)

## **Table Production.ProductModelProductDescriptionCulture** (762 rows)

*Cross-reference table mapping product descriptions and the language the description is written in.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	ProductModelID	int			
	<i>Primary key. Foreign key to ProductModel.ProductModelID.</i>				
<b>PK, FK</b>	ProductDescriptionID	int			
	<i>Primary key. Foreign key to ProductDescription.ProductDescriptionID.</i>				
<b>PK, FK</b>	CultureID	nchar(6)			
	<i>Culture identification number. Foreign key to Culture.CultureID.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_ProductModelProductDescriptionCulture\_ProductModelID\_ProductDescriptionID\_CultureID** (Primary Key)  
(Clustered) (0.13% Selectivity)

*Primary key (clustered) constraint*

ProductModelID  
ProductDescriptionID  
CultureID

### **References:**

**Production.Culture** (CultureID)

**Production.ProductDescription** (ProductDescriptionID)

**Production.ProductModel** (ProductModelID)

### **Used by:**

**View Production.vProductAndDescription**

CultureID  
ProductDescriptionID  
ProductModelID

## **Table Production.ProductPhoto** (101 rows)

*Product images.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ProductPhotoID	int	X		
<i>Primary key for ProductPhoto records.</i>					
	ThumbNailPhoto	varbinary(max)		X	
<i>Small image of the product.</i>					
	ThumbnailPhotoFileName	nvarchar(50)		X	
<i>Small image file name.</i>					
	LargePhoto	varbinary(max)		X	
<i>Large image of the product.</i>					
	LargePhotoFileName	nvarchar(50)		X	
<i>Large image file name.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ProductPhoto\_ProductPhotoID** (Primary Key) (Clustered) (0.99% Selectivity)

*Primary key (clustered) constraint*

ProductPhotoID

### **Referenced by:**

**Production.ProductProductPhoto** (ProductPhotoID)

## **Table Production.ProductProductPhoto** (504 rows)

*Cross-reference table mapping products and product photos.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID.</i>				
<b>PK, FK</b>	ProductPhotoID	int			
	<i>Product photo identification number. Foreign key to ProductPhoto.ProductPhotoID.</i>				
	Primary	Flag(bit)			0
	<i>0 = Photo is not the principal image. 1 = Photo is the principal image.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_ProductProductPhoto\_ProductID\_ProductPhotoID** (Primary Key) (0.2% Selectivity)

*Primary key (clustered) constraint*

ProductID  
ProductPhotoID

### **References:**

**Production.Product** (ProductID)

**Production.ProductPhoto** (ProductPhotoID)

## **Table Production.ProductReview** (4 rows)

*Customer reviews of products they have purchased.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ProductReviewID	int	X		
<i>Primary key for ProductReview records.</i>					
<b>FK</b>	ProductID	int			
<i>Product identification number. Foreign key to Product.ProductID.</i>					
	ReviewerName	Name(nvarchar(50))			
<i>Name of the reviewer.</i>					
	ReviewDate	datetime			getdate()
<i>Date review was submitted.</i>					
	EmailAddress	nvarchar(50)			
<i>Reviewer's e-mail address.</i>					
	Rating	int			
<i>Product rating given by the reviewer. Scale is 1 to 5 with 5 as the highest rating.</i>					
	Comments	nvarchar(3850)		X	
<i>Reviewer's comments</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ProductReview\_ProductReviewID** (Primary Key) (Clustered) (25% Selectivity)

*Primary key (clustered) constraint*

ProductReviewID

**IX\_ProductReview\_ProductID\_Name** (25% Selectivity)

*Nonclustered index.*

ProductID

ReviewerName

Comments (Included)

### **References:**

**Production.Product** (ProductID)



## Table **Production.ProductSubcategory** (37 rows)

Product subcategories. See *ProductCategory* table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ProductSubcategoryID	int	X		
<i>Primary key for ProductSubcategory records.</i>					
<b>FK</b>	ProductCategoryID	int			
<i>Product category identification number. Foreign key to ProductCategory.ProductCategoryID.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Subcategory description.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_ProductSubcategory\_ProductSubcategoryID** (Primary Key) (Clustered) (2.7% Selectivity)

*Primary key (clustered) constraint*

ProductSubcategoryID

**AK\_ProductSubcategory\_Name** (Unique) (2.7% Selectivity)

*Unique nonclustered index.*

Name

**AK\_ProductSubcategory\_rowguid** (Unique) (2.7% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### References:

**Production.ProductCategory** (ProductCategoryID)

### Referenced by:

**Production.Product** (ProductSubcategoryID)

## **Table Production.ScrapReason** (16 rows)

*Manufacturing failure reasons lookup table.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ScrapReasonID	smallint	X		
<i>Primary key for ScrapReason records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Failure description.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ScrapReason\_ScrapReasonID** (Primary Key) (Clustered) (6.25% Selectivity)

*Primary key (clustered) constraint*

ScrapReasonID

**AK\_ScrapReason\_Name** (Unique) (6.25% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Production.WorkOrder** (ScrapReasonID)

## Table **Production.TransactionHistory** (113,443 rows)

Record of each purchase order, sales order, or work order transaction year to date.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	TransactionID	int	X		
<i>Primary key for TransactionHistory records.</i>					
<b>FK</b>	ProductID	int			
<i>Product identification number. Foreign key to Product.ProductID.</i>					
	ReferenceOrderID	int			
<i>Purchase order, sales order, or work order identification number.</i>					
	ReferenceOrderLineID	int			0
<i>Line number associated with the purchase order, sales order, or work order.</i>					
	TransactionDate	datetime			getdate()
<i>Date and time of the transaction.</i>					
	TransactionType	nchar(1)			
<i>W = WorkOrder, S = SalesOrder, P = PurchaseOrder</i>					
	Quantity	int			
<i>Product quantity.</i>					
	ActualCost	money			
<i>Product cost.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_TransactionHistory\_TransactionID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

TransactionID

**IX\_TransactionHistory\_ProductID** (0.23% Selectivity)

*Nonclustered index.*

ProductID

**IX\_TransactionHistory\_ReferenceOrderID\_ReferenceOrderLineID** (< 0.01% Selectivity)

*Nonclustered index.*

ReferenceOrderID

ReferenceOrderLineID

### References:

**Production.Product** (ProductID)

### Used by:

**Trigger iWorkOrder** on **Production.WorkOrder**

ActualCost  
ProductID  
Quantity  
ReferenceOrderID  
TransactionDate  
TransactionType

**Trigger uWorkOrder** on **Production.WorkOrder**

ProductID  
Quantity  
ReferenceOrderID  
TransactionDate

TransactionType

**Trigger iPurchaseOrderDetail on Purchasing.PurchaseOrderDetail**

ActualCost  
ProductID  
Quantity  
ReferenceOrderID  
ReferenceOrderLineID  
TransactionDate  
TransactionType

**Trigger uPurchaseOrderDetail on Purchasing.PurchaseOrderDetail**

ActualCost  
ProductID  
Quantity  
ReferenceOrderID  
ReferenceOrderLineID  
TransactionDate  
TransactionType

**Trigger iduSalesOrderDetail on Sales.SalesOrderDetail**

ActualCost  
ProductID  
Quantity  
ReferenceOrderID  
ReferenceOrderLineID  
TransactionDate  
TransactionType

## Table **Production.TransactionHistoryArchive** (89,253 rows)

Transactions for previous years.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	TransactionID	int			
<i>Primary key for TransactionHistoryArchive records.</i>					
	ProductID	int			
<i>Product identification number. Foreign key to Product.ProductID.</i>					
	ReferenceOrderID	int			
<i>Purchase order, sales order, or work order identification number.</i>					
	ReferenceOrderLineID	int			0
<i>Line number associated with the purchase order, sales order, or work order.</i>					
	TransactionDate	datetime			getdate()
<i>Date and time of the transaction.</i>					
	TransactionType	nchar(1)			
<i>W = Work Order, S = Sales Order, P = Purchase Order</i>					
	Quantity	int			
<i>Product quantity.</i>					
	ActualCost	money			
<i>Product cost.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_TransactionHistoryArchive\_TransactionID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

TransactionID

**IX\_TransactionHistoryArchive\_ProductID** (0.2% Selectivity)

*Nonclustered index.*

ProductID

**IX\_TransactionHistoryArchive\_ReferenceOrderID\_ReferenceOrderLineID** (< 0.01% Selectivity)

*Nonclustered index.*

ReferenceOrderID

ReferenceOrderLineID

## **Table Production.UnitMeasure** (38 rows)

*Unit of measure lookup table.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	UnitMeasureCode	nchar(3)			
<i>Primary key.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Unit of measure description.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_UnitMeasure\_UnitMeasureCode** (Primary Key) (Clustered) (2.63% Selectivity)

*Primary key (clustered) constraint*

UnitMeasureCode

**AK\_UnitMeasure\_Name** (Unique) (2.63% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Production.BillOfMaterials** (UnitMeasureCode)

**Production.Product** (SizeUnitMeasureCode -> UnitMeasureCode)

**Production.Product** (WeightUnitMeasureCode -> UnitMeasureCode)

**Purchasing.ProductVendor** (UnitMeasureCode)

## Table **Production.WorkOrder** (72,591 rows)

Manufacturing work orders.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	WorkOrderID	int	X		
<i>Primary key for WorkOrder records.</i>					
<b>FK</b>	ProductID	int			
<i>Product identification number. Foreign key to Product.ProductID.</i>					
	OrderQty	int			
<i>Product quantity to build.</i>					
	StockedQty	int			
<i>Quantity built and put in inventory.</i>					
	ScrappedQty	smallint			
<i>Quantity that failed inspection.</i>					
	StartDate	datetime			
<i>Work order start date.</i>					
	EndDate	datetime		X	
<i>Work order end date.</i>					
	DueDate	datetime			
<i>Work order due date.</i>					
<b>FK</b>	ScrapReasonID	smallint		X	
<i>Reason for inspection failure.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_WorkOrder\_WorkOrderID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

WorkOrderID

**IX\_WorkOrder\_ProductID** (0.42% Selectivity)

*Nonclustered index.*

ProductID

**IX\_WorkOrder\_ScrapReasonID** (5.88% Selectivity)

*Nonclustered index.*

ScrapReasonID

### References:

**Production.Product** (ProductID)

**Production.ScrapReason** (ScrapReasonID)

### Referenced by:

**Production.WorkOrderRouting** (WorkOrderID)

### Triggers:

**iWorkOrder** (After Insert)

*AFTER INSERT trigger that inserts a row in the TransactionHistory table.*

**uWorkOrder** (After Update)

*AFTER UPDATE trigger that inserts a row in the TransactionHistory table, updates ModifiedDate in the WorkOrder*

*table.*



## Table **Production.WorkOrderRouting** (67,131 rows)

Work order details.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	WorkOrderID	int			
	<i>Primary key. Foreign key to WorkOrder.WorkOrderID.</i>				
<b>PK</b>	ProductID	int			
	<i>Primary key. Foreign key to Product.ProductID.</i>				
<b>PK</b>	OperationSequence	smallint			
	<i>Primary key. Indicates the manufacturing process sequence.</i>				
<b>FK</b>	LocationID	smallint			
	<i>Manufacturing location where the part is processed. Foreign key to Location.LocationID.</i>				
	ScheduledStartDate	datetime			
	<i>Planned manufacturing start date.</i>				
	ScheduledEndDate	datetime			
	<i>Planned manufacturing end date.</i>				
	ActualStartDate	datetime		X	
	<i>Actual start date.</i>				
	ActualEndDate	datetime		X	
	<i>Actual end date.</i>				
	ActualResourceHrs	decimal(9,4)		X	
	<i>Number of manufacturing hours used.</i>				
	PlannedCost	money			
	<i>Estimated manufacturing cost.</i>				
	ActualCost	money		X	
	<i>Actual manufacturing cost.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_WorkOrderRouting\_WorkOrderID\_ProductID\_OperationSequence** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

WorkOrderID  
ProductID  
OperationSequence

**IX\_WorkOrderRouting\_ProductID** (0.67% Selectivity)

*Nonclustered index.*

ProductID

### References:

**Production.Location** (LocationID)

**Production.WorkOrder** (WorkOrderID)

## Table Purchasing.ProductVendor (460 rows)

Cross-reference table mapping vendors with the products they supply.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	ProductID	int			
	<i>Primary key. Foreign key to Product.ProductID.</i>				
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key. Foreign key to Vendor.BusinessEntityID.</i>				
	AverageLeadTime	int			
	<i>The average span of time (in days) between placing an order with the vendor and receiving the purchased product.</i>				
	StandardPrice	money			
	<i>The vendor's usual selling price.</i>				
	LastReceiptCost	money		X	
	<i>The selling price when last purchased.</i>				
	LastReceiptDate	datetime		X	
	<i>Date the product was last received by the vendor.</i>				
	MinOrderQty	int			
	<i>The maximum quantity that should be ordered.</i>				
	MaxOrderQty	int			
	<i>The minimum quantity that should be ordered.</i>				
	OnOrderQty	int		X	
	<i>The quantity currently on order.</i>				
<b>FK</b>	UnitMeasureCode	nchar(3)			
	<i>The product's unit of measure.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_ProductVendor\_ProductID\_BusinessEntityID** (Primary Key) (Clustered) (0.22% Selectivity)

*Primary key (clustered) constraint*

ProductID  
BusinessEntityID

**IX\_ProductVendor\_BusinessEntityID** (1.16% Selectivity)

*Nonclustered index.*

BusinessEntityID

**IX\_ProductVendor\_UnitMeasureCode** (14.29% Selectivity)

*Nonclustered index.*

UnitMeasureCode

### References:

**Production.Product** (ProductID)

**Production.UnitMeasure** (UnitMeasureCode)

**Purchasing.Vendor** (BusinessEntityID)

**Table Purchasing.PurchaseOrderDetail (8,845 rows)**

Individual products associated with a specific purchase order. See PurchaseOrderHeader.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	PurchaseOrderID	int			
	<i>Primary key. Foreign key to PurchaseOrderHeader.PurchaseOrderID.</i>				
<b>PK</b>	PurchaseOrderDetailID	int	X		
	<i>Primary key. One line number per purchased product.</i>				
	DueDate	datetime			
	<i>Date the product is expected to be received.</i>				
	OrderQty	smallint			
	<i>Quantity ordered.</i>				
<b>FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID.</i>				
	UnitPrice	money			
	<i>Vendor's selling price of a single product.</i>				
	LineTotal	money			
	<i>Per product subtotal. Computed as OrderQty * UnitPrice.</i>				
	ReceivedQty	decimal(8,2)			
	<i>Quantity actually received from the vendor.</i>				
	RejectedQty	decimal(8,2)			
	<i>Quantity rejected during inspection.</i>				
	StockedQty	decimal(9,2)			
	<i>Quantity accepted into inventory. Computed as ReceivedQty - RejectedQty.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

**Indexes:**

**PK\_PurchaseOrderDetail\_PurchaseOrderID\_PurchaseOrderDetailID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

PurchaseOrderID  
PurchaseOrderDetailID

**IX\_PurchaseOrderDetail\_ProductID** (0.38% Selectivity)

*Nonclustered index.*

ProductID

**References:**

**Production.Product** (ProductID)

**Purchasing.PurchaseOrderHeader** (PurchaseOrderID)

**Triggers:**

**iPurchaseOrderDetail** (After Insert)

*AFTER INSERT trigger that inserts a row in the TransactionHistory table and updates the PurchaseOrderHeader.SubTotal column.*

**uPurchaseOrderDetail** (After Update)

*AFTER UPDATE trigger that inserts a row in the TransactionHistory table, updates ModifiedDate in PurchaseOrderDetail and updates the PurchaseOrderHeader.SubTotal column.*

**Table Purchasing.PurchaseOrderHeader (4,012 rows)**

General purchase order information. See PurchaseOrderDetail.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	PurchaseOrderID	int	X		
	<i>Primary key.</i>				
	RevisionNumber	tinyint			0
	<i>Incremental number to track changes to the purchase order over time.</i>				
	Status	tinyint			1
	<i>Order current status. 1 = Pending; 2 = Approved; 3 = Rejected; 4 = Complete</i>				
<b>FK</b>	EmployeeID	int			
	<i>Employee who created the purchase order. Foreign key to Employee.BusinessEntityID.</i>				
<b>FK</b>	VendorID	int			
	<i>Vendor with whom the purchase order is placed. Foreign key to Vendor.BusinessEntityID.</i>				
<b>FK</b>	ShipMethodID	int			
	<i>Shipping method. Foreign key to ShipMethod.ShipMethodID.</i>				
	OrderDate	datetime			getdate()
	<i>Purchase order creation date.</i>				
	ShipDate	datetime		X	
	<i>Estimated shipment date from the vendor.</i>				
	SubTotal	money			0.00
	<i>Purchase order subtotal. Computed as SUM(PurchaseOrderDetail.LineTotal)for the appropriate PurchaseOrderID.</i>				
	TaxAmt	money			0.00
	<i>Tax amount.</i>				
	Freight	money			0.00
	<i>Shipping cost.</i>				
	TotalDue	money			
	<i>Total due to vendor. Computed as Subtotal + TaxAmt + Freight.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

**Indexes:**

**PK\_PurchaseOrderHeader\_PurchaseOrderID** (Primary Key) (Clustered) (0.02% Selectivity)

*Primary key (clustered) constraint*

PurchaseOrderID

**IX\_PurchaseOrderHeader\_EmployeeID** (8.33% Selectivity)

*Nonclustered index.*

EmployeeID

**IX\_PurchaseOrderHeader\_VendorID** (1.16% Selectivity)

*Nonclustered index.*

VendorID

**References:**

**HumanResources.Employee** (EmployeeID -> BusinessEntityID)

**Purchasing.ShipMethod** (ShipMethodID)

**Purchasing.Vendor** (VendorID -> BusinessEntityID)

**Referenced by:**

**Purchasing.PurchaseOrderDetail** (*PurchaseOrderID*)

**Triggers:**

**uPurchaseOrderHeader** (*After Update*)

*AFTER UPDATE* trigger that updates the *RevisionNumber* and *ModifiedDate* columns in the *PurchaseOrderHeader* table.

**Used by:**

**Trigger iPurchaseOrderDetail** on **Purchasing.PurchaseOrderDetail**

PurchaseOrderID  
SubTotal

**Trigger uPurchaseOrderDetail** on **Purchasing.PurchaseOrderDetail**

PurchaseOrderID  
SubTotal

## **Table Purchasing.ShipMethod** (5 rows)

*Shipping company lookup table.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	ShipMethodID	int	X		
<i>Primary key for ShipMethod records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Shipping company name.</i>					
	ShipBase	money			0.00
<i>Minimum shipping charge.</i>					
	ShipRate	money			0.00
<i>Shipping charge per pound.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_ShipMethod\_ShipMethodID** (Primary Key) (Clustered) (20% Selectivity)

*Primary key (clustered) constraint*

ShipMethodID

**AK\_ShipMethod\_Name** (Unique) (20% Selectivity)

*Unique nonclustered index.*

Name

**AK\_ShipMethod\_rowguid** (Unique) (20% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### **Referenced by:**

**Purchasing.PurchaseOrderHeader** (ShipMethodID)

**Sales.SalesOrderHeader** (ShipMethodID)

## Table **Purchasing.Vendor** (104 rows)

Companies from whom Adventure Works Cycles purchases parts or other goods.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
<i>Primary key for Vendor records. Foreign key to BusinessEntity.BusinessEntityID</i>					
<b>UK</b>	AccountNumber	AccountNumber(nvarchar(15))			
<i>Vendor account (identification) number.</i>					
	Name	Name(nvarchar(50))			
<i>Company name.</i>					
	CreditRating	tinyint			
<i>1 = Superior, 2 = Excellent, 3 = Above average, 4 = Average, 5 = Below average</i>					
	PreferredVendorStatus	Flag(bit)			1
<i>0 = Do not use if another vendor is available. 1 = Preferred over other vendors supplying the same product.</i>					
	ActiveFlag	Flag(bit)			1
<i>0 = Vendor no longer used. 1 = Vendor is actively used.</i>					
	PurchasingWebServiceURL	nvarchar(1024)		X	
<i>Vendor URL.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Vendor\_BusinessEntityID** (Primary Key) (Clustered) (0.96% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_Vendor\_AccountNumber** (Unique) (0.96% Selectivity)

*Unique nonclustered index.*

AccountNumber

### References:

**Person.BusinessEntity** (BusinessEntityID)

### Referenced by:

**Purchasing.ProductVendor** (BusinessEntityID)

**Purchasing.PurchaseOrderHeader** (VendorID -> BusinessEntityID)

### Triggers:

**dVendor** (Instead Of Delete)

*INSTEAD OF DELETE trigger which keeps Vendors from being deleted.*

### Used by:

**Function dbo.ufnGetContactInformation**

BusinessEntityID

**View Purchasing.vVendorWithAddresses**

BusinessEntityID

Name

**View Purchasing.vVendorWithContacts**

BusinessEntityID

Name



## **Table Sales.CountryRegionCurrency** (109 rows)

*Cross-reference table mapping ISO currency codes to a country or region.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	CountryRegionCode	nvarchar(3)			
	<i>ISO code for countries and regions. Foreign key to CountryRegion.CountryRegionCode.</i>				
<b>PK, FK</b>	CurrencyCode	nchar(3)			
	<i>ISO standard currency code. Foreign key to Currency.CurrencyCode.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_CountryRegionCurrency\_CountryRegionCode\_CurrencyCode** (Primary Key) (Clustered) (0.92% Selectivity)

*Primary key (clustered) constraint*

CountryRegionCode  
CurrencyCode

**IX\_CountryRegionCurrency\_CurrencyCode** (1.03% Selectivity)

*Nonclustered index.*

CurrencyCode

### **References:**

**Person.CountryRegion** (CountryRegionCode)

**Sales.Currency** (CurrencyCode)

## Table Sales.CreditCard (19,118 rows)

Customer credit card information.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	CreditCardID	int	X		
<i>Primary key for CreditCard records.</i>					
	CardType	nvarchar(50)			
<i>Credit card name.</i>					
<b>UK</b>	CardNumber	nvarchar(25)			
<i>Credit card number.</i>					
	ExpMonth	tinyint			
<i>Credit card expiration month.</i>					
	ExpYear	smallint			
<i>Credit card expiration year.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_CreditCard\_CreditCardID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

CreditCardID

**AK\_CreditCard\_CardNumber** (Unique) (0.01% Selectivity)

*Unique nonclustered index.*

CardNumber

### Referenced by:

**Sales.PersonCreditCard** (CreditCardID)

**Sales.SalesOrderHeader** (CreditCardID)

## **Table Sales.Currency** (105 rows)

Lookup table containing standard ISO currencies.

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK</b>	CurrencyCode	nchar(3)			
<i>The ISO code for the Currency.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Currency name.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### **Indexes:**

**PK\_Currency\_CurrencyCode** (Primary Key) (Clustered) (0.95% Selectivity)

*Primary key (clustered) constraint*

CurrencyCode

**AK\_Currency\_Name** (Unique) (0.95% Selectivity)

*Unique nonclustered index.*

Name

### **Referenced by:**

**Sales.CountryRegionCurrency** (CurrencyCode)

**Sales.CurrencyRate** (FromCurrencyCode -> CurrencyCode)

**Sales.CurrencyRate** (ToCurrencyCode -> CurrencyCode)

## Table Sales.CurrencyRate (13,532 rows)

Currency exchange rates.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	CurrencyRateID	int	X		
	<i>Primary key for CurrencyRate records.</i>				
<b>UK</b>	CurrencyRateDate	datetime			
	<i>Date and time the exchange rate was obtained.</i>				
<b>UK, FK</b>	FromCurrencyCode	nchar(3)			
	<i>Exchange rate was converted from this currency code.</i>				
<b>UK, FK</b>	ToCurrencyCode	nchar(3)			
	<i>Exchange rate was converted to this currency code.</i>				
	AverageRate	money			
	<i>Average exchange rate for the day.</i>				
	EndOfDayRate	money			
	<i>Final exchange rate for the day.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_CurrencyRate\_CurrencyRateID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

CurrencyRateID

**AK\_CurrencyRate\_CurrencyRateDate\_FromCurrencyCode\_ToCurrencyCode** (Unique) (0.01% Selectivity)

*Unique nonclustered index.*

CurrencyRateDate  
FromCurrencyCode  
ToCurrencyCode

### References:

**Sales.Currency** (FromCurrencyCode -> CurrencyCode)

**Sales.Currency** (ToCurrencyCode -> CurrencyCode)

### Referenced by:

**Sales.SalesOrderHeader** (CurrencyRateID)

## Table Sales.Customer (19,820 rows)

Current customer information. Also see the Person and Store tables.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	CustomerID	int	X		
<i>Primary key.</i>					
<b>FK</b>	PersonID	int		X	
<i>Foreign key to Person.BusinessEntityID</i>					
<b>FK</b>	StoreID	int		X	
<i>Foreign key to Store.BusinessEntityID</i>					
<b>FK</b>	TerritoryID	int		X	
<i>ID of the territory in which the customer is located. Foreign key to SalesTerritory.SalesTerritoryID.</i>					
<b>UK</b>	AccountNumber	varchar(10)			
<i>Unique number identifying the customer assigned by the accounting system.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Customer\_CustomerID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

CustomerID

**AK\_Customer\_AccountNumber** (Unique) (0.01% Selectivity)

*Unique nonclustered index.*

AccountNumber

**AK\_Customer\_rowguid** (Unique) (0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_Customer\_TerritoryID** (10% Selectivity)

*Nonclustered index.*

TerritoryID

### References:

**Person.Person** (PersonID -> BusinessEntityID)

**Sales.SalesTerritory** (TerritoryID)

**Sales.Store** (StoreID -> BusinessEntityID)

### Referenced by:

**Sales.SalesOrderHeader** (CustomerID)

### Used by:

**Function dbo.ufnGetContactInformation**

PersonID  
StoreID

**Trigger iduSalesOrderDetail on Sales.SalesOrderDetail**

CustomerID  
PersonID

**View Sales.vIndividualCustomer**

PersonID  
StoreID

## **Table Sales.PersonCreditCard** (19,118 rows)

*Cross-reference table mapping people to their credit card information in the CreditCard table.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Business entity identification number. Foreign key to Person.BusinessEntityID.</i>				
<b>PK, FK</b>	CreditCardID	int			
	<i>Credit card identification number. Foreign key to CreditCard.CreditCardID.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_PersonCreditCard\_BusinessEntityID\_CreditCardID** (Primary Key) (Clustered) (0.01% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
CreditCardID

### **References:**

**Person.Person** (BusinessEntityID)

**Sales.CreditCard** (CreditCardID)

## Table Sales.SalesOrderDetail (121,317 rows)

Individual products associated with a specific sales order. See SalesOrderHeader.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	SalesOrderID	int			
	<i>Primary key. Foreign key to SalesOrderHeader.SalesOrderID.</i>				
<b>PK</b>	SalesOrderDetailID	int	X		
	<i>Primary key. One incremental unique number per product sold.</i>				
	CarrierTrackingNumber	nvarchar(25)		X	
	<i>Shipment tracking number supplied by the shipper.</i>				
	OrderQty	smallint			
	<i>Quantity ordered per product.</i>				
<b>FK</b>	ProductID	int			
	<i>Product sold to customer. Foreign key to Product.ProductID.</i>				
<b>FK</b>	SpecialOfferID	int			
	<i>Promotional code. Foreign key to SpecialOffer.SpecialOfferID.</i>				
	UnitPrice	money			
	<i>Selling price of a single product.</i>				
	UnitPriceDiscount	money			0.0
	<i>Discount amount.</i>				
	LineTotal	numeric(38,6)			
	<i>Per product subtotal. Computed as UnitPrice * (1 - UnitPriceDiscount) * OrderQty.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_SalesOrderDetail\_SalesOrderID\_SalesOrderDetailID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

SalesOrderID  
SalesOrderDetailID

**AK\_SalesOrderDetail\_rowguid** (Unique) (< 0.01% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_SalesOrderDetail\_ProductID** (0.38% Selectivity)

*Nonclustered index.*

ProductID

### References:

**Sales.SalesOrderHeader** (SalesOrderID)

**Sales.SpecialOfferProduct** (ProductID, SpecialOfferID)

### Triggers:

**iduSalesOrderDetail** (After Insert, Update, Delete)

*AFTER INSERT, DELETE, UPDATE trigger that inserts a row in the TransactionHistory table, updates ModifiedDate in SalesOrderDetail and updates the SalesOrderHeader.SubTotal column.*



**Table Sales.SalesOrderHeader** (31,465 rows)

General sales order information.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	SalesOrderID	int	X		
<i>Primary key.</i>					
	RevisionNumber	tinyint			0
<i>Incremental number to track changes to the sales order over time.</i>					
	OrderDate	datetime			getdate()
<i>Dates the sales order was created.</i>					
	DueDate	datetime			
<i>Date the order is due to the customer.</i>					
	ShipDate	datetime		X	
<i>Date the order was shipped to the customer.</i>					
	Status	tinyint			1
<i>Order current status. 1 = In process; 2 = Approved; 3 = Backordered; 4 = Rejected; 5 = Shipped; 6 = Cancelled</i>					
	OnlineOrderFlag	Flag(bit)			1
<i>0 = Order placed by sales person. 1 = Order placed online by customer.</i>					
<b>UK</b>	SalesOrderNumber	nvarchar(25)			
<i>Unique sales order identification number.</i>					
	PurchaseOrderNumber	OrderNumber(nvarchar(25))		X	
<i>Customer purchase order number reference.</i>					
	AccountNumber	AccountNumber(nvarchar(15))		X	
<i>Financial accounting number reference.</i>					
<b>FK</b>	CustomerID	int			
<i>Customer identification number. Foreign key to Customer.BusinessEntityID.</i>					
<b>FK</b>	SalesPersonID	int		X	
<i>Sales person who created the sales order. Foreign key to SalesPerson.BusinessEntityID.</i>					
<b>FK</b>	TerritoryID	int		X	
<i>Territory in which the sale was made. Foreign key to SalesTerritory.SalesTerritoryID.</i>					
<b>FK</b>	BillToAddressID	int			
<i>Customer billing address. Foreign key to Address.AddressID.</i>					
<b>FK</b>	ShipToAddressID	int			
<i>Customer shipping address. Foreign key to Address.AddressID.</i>					
<b>FK</b>	ShipMethodID	int			
<i>Shipping method. Foreign key to ShipMethod.ShipMethodID.</i>					
<b>FK</b>	CreditCardID	int		X	
<i>Credit card identification number. Foreign key to CreditCard.CreditCardID.</i>					
	CreditCardApprovalCode	varchar(15)		X	
<i>Approval code provided by the credit card company.</i>					
<b>FK</b>	CurrencyRateID	int		X	
<i>Currency exchange rate used. Foreign key to CurrencyRate.CurrencyRateID.</i>					
	SubTotal	money			0.00
<i>Sales subtotal. Computed as SUM(SalesOrderDetail.LineTotal)for the appropriate SalesOrderID.</i>					
	TaxAmt	money			0.00
<i>Tax amount.</i>					
	Freight	money			0.00
<i>Shipping cost.</i>					
	TotalDue	money			
<i>Total due from customer. Computed as Subtotal + TaxAmt + Freight.</i>					
	Comment	nvarchar(128)		X	
<i>Sales representative comments.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()

Date and time the record was last updated.

## Indexes:

**PK\_SalesOrderHeader\_SalesOrderID** (Primary Key) (Clustered) (< 0.01% Selectivity)

Primary key (clustered) constraint

SalesOrderID

**AK\_SalesOrderHeader\_rowguid** (Unique) (< 0.01% Selectivity)

Unique nonclustered index. Used to support replication samples.

rowguid

**AK\_SalesOrderHeader\_SalesOrderNumber** (Unique) (< 0.01% Selectivity)

Unique nonclustered index.

SalesOrderNumber

**IX\_SalesOrderHeader\_CustomerID** (0.01% Selectivity)

Nonclustered index.

CustomerID

**IX\_SalesOrderHeader\_SalesPersonID** (5.56% Selectivity)

Nonclustered index.

SalesPersonID

## References:

**Person.Address** (BillToAddressID -> AddressID)

**Person.Address** (ShipToAddressID -> AddressID)

**Purchasing.ShipMethod** (ShipMethodID)

**Sales.CreditCard** (CreditCardID)

**Sales.CurrencyRate** (CurrencyRateID)

**Sales.Customer** (CustomerID)

**Sales.SalesPerson** (SalesPersonID -> BusinessEntityID)

**Sales.SalesTerritory** (TerritoryID)

## Referenced by:

**Sales.SalesOrderDetail** (SalesOrderID)

**Sales.SalesOrderHeaderSalesReason** (SalesOrderID)

## Triggers:

**uSalesOrderHeader** (After Update)

AFTER UPDATE trigger that updates the RevisionNumber and ModifiedDate columns in the SalesOrderHeader table. Updates the SalesYTD column in the SalesPerson and SalesTerritory tables.

## Used by:

Trigger **iduSalesOrderDetail** on **Sales.SalesOrderDetail**

CustomerID  
SalesOrderID

SubTotal

**View Sales.vSalesPersonSalesByFiscalYears**

OrderDate  
SalesPersonID  
SubTotal

## **Table Sales.SalesOrderHeaderSalesReason** (27,647 rows)

*Cross-reference table mapping sales orders to sales reason codes.*

	<b>Column</b>	<b>Data Type</b>	<b>Identity</b>	<b>Nullable</b>	<b>Default</b>
<b>PK, FK</b>	SalesOrderID	int			
	<i>Primary key. Foreign key to SalesOrderHeader.SalesOrderID.</i>				
<b>PK, FK</b>	SalesReasonID	int			
	<i>Primary key. Foreign key to SalesReason.SalesReasonID.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### **Indexes:**

**PK\_SalesOrderHeaderSalesReason\_SalesOrderID\_SalesReasonID** (Primary Key) (Clustered) (< 0.01% Selectivity)

*Primary key (clustered) constraint*

SalesOrderID  
SalesReasonID

### **References:**

**Sales.SalesOrderHeader** (SalesOrderID)

**Sales.SalesReason** (SalesReasonID)

## Table Sales.SalesPerson (17 rows)

Sales representative current information.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Primary key for SalesPerson records. Foreign key to Employee.BusinessEntityID</i>				
<b>FK</b>	TerritoryID	int		X	
	<i>Territory currently assigned to. Foreign key to SalesTerritory.SalesTerritoryID.</i>				
	SalesQuota	money		X	
	<i>Projected yearly sales.</i>				
	Bonus	money			0.00
	<i>Bonus due if quota is met.</i>				
	CommissionPct	smallmoney			0.00
	<i>Commision percent received per sale.</i>				
	SalesYTD	money			0.00
	<i>Sales total year to date.</i>				
	SalesLastYear	money			0.00
	<i>Sales total of previous year.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_SalesPerson\_BusinessEntityID** (Primary Key) (Clustered) (5.88% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_SalesPerson\_rowguid** (Unique) (5.88% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### References:

**HumanResources.Employee** (BusinessEntityID)

**Sales.SalesTerritory** (TerritoryID)

### Referenced by:

**Sales.SalesOrderHeader** (SalesPersonID -> BusinessEntityID)

**Sales.SalesPersonQuotaHistory** (BusinessEntityID)

**Sales.SalesTerritoryHistory** (BusinessEntityID)

**Sales.Store** (SalesPersonID -> BusinessEntityID)

### Used by:

**Trigger uSalesOrderHeader** on **Sales.SalesOrderHeader**

BusinessEntityID  
SalesYTD

**View Sales.vSalesPerson**

BusinessEntityID  
SalesLastYear

SalesQuota  
SalesYTD  
TerritoryID

**View Sales.vSalesPersonSalesByFiscalYears**

BusinessEntityID  
TerritoryID

## Table Sales.SalesPersonQuotaHistory (163 rows)

Sales performance tracking.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
	<i>Sales person identification number. Foreign key to SalesPerson.BusinessEntityID.</i>				
<b>PK</b>	QuotaDate	datetime			
	<i>Sales quota date.</i>				
	SalesQuota	money			
	<i>Sales quota amount.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_SalesPersonQuotaHistory\_BusinessEntityID\_QuotaDate** (Primary Key) (Clustered) (0.61% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
QuotaDate

**AK\_SalesPersonQuotaHistory\_rowguid** (Unique) (0.61% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### References:

**Sales.SalesPerson** (BusinessEntityID)

**Table Sales.SalesReason** (10 rows)

Lookup table of customer purchase reasons.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	SalesReasonID	int	X		
<i>Primary key for SalesReason records.</i>					
	Name	Name(nvarchar(50))			
<i>Sales reason description.</i>					
	ReasonType	Name(nvarchar(50))			
<i>Category the sales reason belongs to.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

**Indexes:**

**PK\_SalesReason\_SalesReasonID** (Primary Key) (Clustered) (10% Selectivity)

*Primary key (clustered) constraint*

SalesReasonID

**Referenced by:**

**Sales.SalesOrderHeaderSalesReason** (SalesReasonID)



## Table Sales.SalesTaxRate (29 rows)

Tax rate lookup table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	SalesTaxRateID	int	X		
	<i>Primary key for SalesTaxRate records.</i>				
<b>UK, FK</b>	StateProvinceID	int			
	<i>State, province, or country/region the sales tax applies to.</i>				
<b>UK</b>	TaxType	tinyint			
	<i>1 = Tax applied to retail transactions, 2 = Tax applied to wholesale transactions, 3 = Tax applied to all sales (retail and wholesale) transactions.</i>				
	TaxRate	smallmoney			0.00
	<i>Tax rate amount.</i>				
	Name	Name(nvarchar(50))			
	<i>Tax rate description.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_SalesTaxRate\_SalesTaxRateID** (Primary Key) (Clustered) (3.45% Selectivity)

*Primary key (clustered) constraint*

SalesTaxRateID

**AK\_SalesTaxRate\_rowguid** (Unique) (3.45% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**AK\_SalesTaxRate\_StateProvinceID\_TaxType** (Unique) (3.45% Selectivity)

*Unique nonclustered index.*

StateProvinceID

TaxType

### References:

**Person.StateProvince** (StateProvinceID)

## Table Sales.SalesTerritory (10 rows)

Sales territory lookup table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	TerritoryID	int	X		
<i>Primary key for SalesTerritory records.</i>					
<b>UK</b>	Name	Name(nvarchar(50))			
<i>Sales territory description</i>					
<b>FK</b>	CountryRegionCode	nvarchar(3)			
<i>ISO standard country or region code. Foreign key to CountryRegion.CountryRegionCode.</i>					
	Group	nvarchar(50)			
<i>Geographic area to which the sales territory belong.</i>					
	SalesYTD	money			0.00
<i>Sales in the territory year to date.</i>					
	SalesLastYear	money			0.00
<i>Sales in the territory the previous year.</i>					
	CostYTD	money			0.00
<i>Business costs in the territory year to date.</i>					
	CostLastYear	money			0.00
<i>Business costs in the territory the previous year.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_SalesTerritory\_TerritoryID** (Primary Key) (Clustered) (10% Selectivity)

*Primary key (clustered) constraint*

TerritoryID

**AK\_SalesTerritory\_Name** (Unique) (10% Selectivity)

*Unique nonclustered index.*

Name

**AK\_SalesTerritory\_rowguid** (Unique) (10% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### References:

**Person.CountryRegion** (CountryRegionCode)

### Referenced by:

**Person.StateProvince** (TerritoryID)

**Sales.Customer** (TerritoryID)

**Sales.SalesOrderHeader** (TerritoryID)

**Sales.SalesPerson** (TerritoryID)

**Sales.SalesTerritoryHistory** (TerritoryID)

**Used by:**

**Trigger uSalesOrderHeader on Sales.SalesOrderHeader**

SalesYTD  
TerritoryID

**View Sales.vSalesPerson**

Group  
Name  
TerritoryID

**View Sales.vSalesPersonSalesByFiscalYears**

Name  
TerritoryID

## Table Sales.SalesTerritoryHistory (17 rows)

Sales representative transfers to other sales territories.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
<i>Primary key. The sales rep. Foreign key to SalesPerson.BusinessEntityID.</i>					
<b>PK, FK</b>	TerritoryID	int			
<i>Primary key. Territory identification number. Foreign key to SalesTerritory.SalesTerritoryID.</i>					
<b>PK</b>	StartDate	datetime			
<i>Primary key. Date the sales representative started work in the territory.</i>					
	EndDate	datetime		X	
<i>Date the sales representative left work in the territory.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_SalesTerritoryHistory\_BusinessEntityID\_StartDate\_TerritoryID** (Primary Key) (Clustered) (5.88% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID  
StartDate  
TerritoryID

**AK\_SalesTerritoryHistory\_rowguid** (Unique) (5.88% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

### References:

**Sales.SalesPerson** (BusinessEntityID)

**Sales.SalesTerritory** (TerritoryID)

## Table Sales.ShoppingCartItem (3 rows)

Contains online customer orders until the order is submitted or cancelled.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	ShoppingCartItemID	int	X		
<i>Primary key for ShoppingCartItem records.</i>					
	ShoppingCartID	nvarchar(50)			
<i>Shopping cart identification number.</i>					
	Quantity	int			1
<i>Product quantity ordered.</i>					
<b>FK</b>	ProductID	int			
<i>Product ordered. Foreign key to Product.ProductID.</i>					
	DateCreated	datetime			getdate()
<i>Date the time the record was created.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_ShoppingCartItem\_ShoppingCartItemID** (Primary Key) (Clustered) (33.33% Selectivity)

*Primary key (clustered) constraint*

ShoppingCartItemID

**IX\_ShoppingCartItem\_ShoppingCartID\_ProductID** (33.33% Selectivity)

*Nonclustered index.*

ShoppingCartItemID

ProductID

### References:

**Production.Product** (ProductID)

**Table Sales.SpecialOffer** (16 rows)

Sale discounts lookup table.

	Column	Data Type	Identity	Nullable	Default
<b>PK</b>	SpecialOfferID	int	X		
<i>Primary key for SpecialOffer records.</i>					
	Description	nvarchar(255)			
<i>Discount description.</i>					
	DiscountPct	smallmoney			0.00
<i>Discount percentage.</i>					
	Type	nvarchar(50)			
<i>Discount type category.</i>					
	Category	nvarchar(50)			
<i>Group the discount applies to such as Reseller or Customer.</i>					
	StartDate	datetime			
<i>Discount start date.</i>					
	EndDate	datetime			
<i>Discount end date.</i>					
	MinQty	int			0
<i>Minimum discount percent allowed.</i>					
	MaxQty	int		X	
<i>Maximum discount percent allowed.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

**Indexes:**

**PK\_SpecialOffer\_SpecialOfferID** (Primary Key) (Clustered) (6.25% Selectivity)

*Primary key (clustered) constraint*

SpecialOfferID

**AK\_SpecialOffer\_rowguid** (Unique) (6.25% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**Referenced by:**

**Sales.SpecialOfferProduct** (SpecialOfferID)

## Table Sales.SpecialOfferProduct (538 rows)

Cross-reference table mapping products to special offer discounts.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	SpecialOfferID	int			
	<i>Primary key for SpecialOfferProduct records.</i>				
<b>PK, FK</b>	ProductID	int			
	<i>Product identification number. Foreign key to Product.ProductID.</i>				
<b>UK</b>	rowguid	uniqueidentifier			newid()
	<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>				
	ModifiedDate	datetime			getdate()
	<i>Date and time the record was last updated.</i>				

### Indexes:

**PK\_SpecialOfferProduct\_SpecialOfferID\_ProductID** (Primary Key) (Clustered) (0.19% Selectivity)

*Primary key (clustered) constraint*

SpecialOfferID  
ProductID

**AK\_SpecialOfferProduct\_rowguid** (Unique) (0.19% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**IX\_SpecialOfferProduct\_ProductID** (0.34% Selectivity)

*Nonclustered index.*

ProductID

### References:

**Production.Product** (ProductID)

**Sales.SpecialOffer** (SpecialOfferID)

### Referenced by:

**Sales.SalesOrderDetail** (ProductID, SpecialOfferID)

## Table Sales.Store (701 rows)

Customers (resellers) of Adventure Works products.

	Column	Data Type	Identity	Nullable	Default
<b>PK, FK</b>	BusinessEntityID	int			
<i>Primary key. Foreign key to Customer.BusinessEntityID.</i>					
	Name	Name(nvarchar(50))			
<i>Name of the store.</i>					
<b>FK</b>	SalesPersonID	int		X	
<i>ID of the sales person assigned to the customer. Foreign key to SalesPerson.BusinessEntityID.</i>					
	Demographics	xml		X	
<i>Demographic information about the store such as the number of employees, annual sales and store type.</i>					
<b>UK</b>	rowguid	uniqueidentifier			newid()
<i>ROWGUIDCOL number uniquely identifying the record. Used to support a merge replication sample.</i>					
	ModifiedDate	datetime			getdate()
<i>Date and time the record was last updated.</i>					

### Indexes:

**PK\_Store\_BusinessEntityID** (Primary Key) (Clustered) (0.14% Selectivity)

*Primary key (clustered) constraint*

BusinessEntityID

**AK\_Store\_rowguid** (Unique) (0.14% Selectivity)

*Unique nonclustered index. Used to support replication samples.*

rowguid

**PXML\_Store\_Demographics** (XML)

*Primary XML index.*

Demographics

**IX\_Store\_SalesPersonID** (7.69% Selectivity)

*Nonclustered index.*

SalesPersonID

### References:

**Person.BusinessEntity** (BusinessEntityID)

**Sales.SalesPerson** (SalesPersonID -> BusinessEntityID)

### Referenced by:

**Sales.Customer** (StoreID -> BusinessEntityID)

### Used by:

**Function dbo.ufnGetContactInformation**

BusinessEntityID

**View Sales.vStoreWithAddresses**

BusinessEntityID



Name

**View Sales.vStoreWithContacts**

BusinessEntityID  
Name

**View Sales.vStoreWithDemographics**

BusinessEntityID  
Demographics  
Name

## Views:

### **View HumanResources.vEmployee**

*Employee names and addresses.*

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
AdditionalContactInfo	xml	X

## Uses:

### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle

### **Table Person.Address**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

### **Table Person.BusinessEntityAddress**

AddressID  
BusinessEntityID

### **Table Person.CountryRegion**

CountryRegionCode  
Name

### **Table Person.EmailAddress**

BusinessEntityID  
EmailAddress

### **Table Person.Person**

AdditionalContactInfo  
BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName

Suffix  
Title

**Table Person.PersonPhone**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

**Table Person.PhoneNumberType**

Name  
PhoneNumberTypeID

**Table Person.StateProvince**

CountryRegionCode  
Name  
StateProvinceID

## **View HumanResources.vEmployeeDepartment**

Returns employee name, title, and current department.

Column	Data Type	Nullable
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
Department	Name(nvarchar(50))	
GroupName	Name(nvarchar(50))	
StartDate	date	

### **Uses:**

#### **Table HumanResources.Department**

DepartmentID  
GroupName  
Name

#### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle

#### **Table HumanResources.EmployeeDepartmentHistory**

BusinessEntityID  
DepartmentID  
EndDate  
StartDate

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName  
MiddleName  
Suffix  
Title

## **View HumanResources.vEmployeeDepartmentHistory**

*Returns employee name and current and previous departments.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
Shift	Name(nvarchar(50))	
Department	Name(nvarchar(50))	
GroupName	Name(nvarchar(50))	
StartDate	date	
EndDate	date	X

### **Uses:**

#### **Table HumanResources.Department**

DepartmentID  
GroupName  
Name

#### **Table HumanResources.Employee**

BusinessEntityID

#### **Table HumanResources.EmployeeDepartmentHistory**

BusinessEntityID  
DepartmentID  
EndDate  
ShiftID  
StartDate

#### **Table HumanResources.Shift**

Name  
ShiftID

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName  
MiddleName  
Suffix  
Title

## **View HumanResources.vJobCandidate**

*Job candidate names and resumes.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
JobCandidateID	int	
BusinessEntityID	int	X
Name.Prefix	nvarchar(30)	X
Name.First	nvarchar(30)	X
Name.Middle	nvarchar(30)	X
Name.Last	nvarchar(30)	X
Name.Suffix	nvarchar(30)	X
Skills	nvarchar(max)	X
Addr.Type	nvarchar(30)	X
Addr.Loc.CountryRegion	nvarchar(100)	X
Addr.Loc.State	nvarchar(100)	X
Addr.Loc.City	nvarchar(100)	X
Addr.PostalCode	nvarchar(20)	X
EMail	nvarchar(max)	X
WebSite	nvarchar(max)	X
ModifiedDate	datetime	

### **Uses:**

#### **Table HumanResources.JobCandidate**

BusinessEntityID  
JobCandidateID  
ModifiedDate  
Resume

## **View HumanResources.vJobCandidateEducation**

*Displays the content from each education related element in the xml column Resume in the HumanResources.JobCandidate table. The content has been localized into French, Simplified Chinese and Thai. Some data may not display correctly unless supplemental language support is installed.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
JobCandidateID	int	
Edu.Level	nvarchar(max)	X
Edu.StartDate	datetime	X
Edu.EndDate	datetime	X
Edu.Degree	nvarchar(50)	X
Edu.Major	nvarchar(50)	X
Edu.Minor	nvarchar(50)	X
Edu.GPA	nvarchar(5)	X
Edu.GPAScale	nvarchar(5)	X
Edu.School	nvarchar(100)	X
Edu.Loc.CountryRegion	nvarchar(100)	X
Edu.Loc.State	nvarchar(100)	X
Edu.Loc.City	nvarchar(100)	X

### **Uses:**

#### **Table HumanResources.JobCandidate**

JobCandidateID  
Resume

## **View HumanResources.vJobCandidateEmployment**

*Displays the content from each employment history related element in the xml column Resume in the HumanResources.JobCandidate table. The content has been localized into French, Simplified Chinese and Thai. Some data may not display correctly unless supplemental language support is installed.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
JobCandidateID	int	
Emp.StartDate	datetime	X
Emp.EndDate	datetime	X
Emp.OrgName	nvarchar(100)	X
Emp.JobTitle	nvarchar(100)	X
Emp.Responsibility	nvarchar(max)	X
Emp.FunctionCategory	nvarchar(max)	X
Emp.IndustryCategory	nvarchar(max)	X
Emp.Loc.CountryRegion	nvarchar(max)	X
Emp.Loc.State	nvarchar(max)	X
Emp.Loc.City	nvarchar(max)	X

### **Uses:**

#### **Table HumanResources.JobCandidate**

JobCandidateID  
Resume



## **View Person.vAdditionalContactInfo**

*Displays the contact name and content from each element in the xml column AdditionalContactInfo for that person.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
TelephoneNumber	nvarchar(50)	X
TelephoneSpecialInstructions	nvarchar(max)	X
Street	nvarchar(50)	X
City	nvarchar(50)	X
StateProvince	nvarchar(50)	X
PostalCode	nvarchar(50)	X
CountryRegion	nvarchar(50)	X
HomeAddressSpecialInstructions	nvarchar(max)	X
EEmailAddress	nvarchar(128)	X
EEmailSpecialInstructions	nvarchar(max)	X
EEmailTelephoneNumber	nvarchar(50)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

### **Uses:**

#### **Table Person.Person**

AdditionalContactInfo  
BusinessEntityID  
FirstName  
LastName  
MiddleName  
ModifiedDate  
rowguid

## **View Person.vStateProvinceCountryRegion**

*Joins StateProvince table with CountryRegion table.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
StateProvinceID	int	
StateProvinceCode	nchar(3)	
IsOnlyStateProvinceFlag	Flag(bit)	
StateProvinceName	Name(nvarchar(50))	
TerritoryID	int	
CountryRegionCode	nvarchar(3)	
CountryRegionName	Name(nvarchar(50))	

### **Uses:**

#### **Table Person.CountryRegion**

CountryRegionCode  
Name

#### **Table Person.StateProvince**

CountryRegionCode  
IsOnlyStateProvinceFlag  
Name  
StateProvinceCode  
StateProvinceID  
TerritoryID

## **View Production.vProductAndDescription**

*Product names and descriptions. Product descriptions are provided in multiple languages.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
ProductID	int	
Name	Name(nvarchar(50))	
ProductModel	Name(nvarchar(50))	
CultureID	nchar(6)	
Description	nvarchar(400)	

### **Uses:**

#### **Table Production.Product**

Name  
ProductID  
ProductModelID

#### **Table Production.ProductDescription**

Description  
ProductDescriptionID

#### **Table Production.ProductModel**

Name  
ProductModelID

#### **Table Production.ProductModelProductDescriptionCulture**

CultureID  
ProductDescriptionID  
ProductModelID

## **View Production.vProductModelCatalogDescription**

*Displays the content from each element in the xml column CatalogDescription for each product in the Production.ProductModel table that has catalog data.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
ProductModelID	int	
Name	Name(nvarchar(50))	
Summary	nvarchar(max)	X
Manufacturer	nvarchar(max)	X
Copyright	nvarchar(30)	X
ProductURL	nvarchar(256)	X
WarrantyPeriod	nvarchar(256)	X
WarrantyDescription	nvarchar(256)	X
NoOfYears	nvarchar(256)	X
MaintenanceDescription	nvarchar(256)	X
Wheel	nvarchar(256)	X
Saddle	nvarchar(256)	X
Pedal	nvarchar(256)	X
BikeFrame	nvarchar(max)	X
Crankset	nvarchar(256)	X
PictureAngle	nvarchar(256)	X
PictureSize	nvarchar(256)	X
ProductPhotoID	nvarchar(256)	X
Material	nvarchar(256)	X
Color	nvarchar(256)	X
ProductLine	nvarchar(256)	X
Style	nvarchar(256)	X
RiderExperience	nvarchar(1024)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

### **Uses:**

#### **Table Production.ProductModel**

CatalogDescription  
ModifiedDate  
Name  
ProductModelID  
rowguid

## **View Production.vProductModelInstructions**

*Displays the content from each element in the xml column Instructions for each product in the Production.ProductModel table that has manufacturing instructions.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
ProductModelID	int	
Name	Name(nvarchar(50))	
Instructions	nvarchar(max)	X
LocationID	int	X
SetupHours	decimal(9,4)	X
MachineHours	decimal(9,4)	X
LaborHours	decimal(9,4)	X
LotSize	int	X
Step	nvarchar(1024)	X
rowguid	uniqueidentifier	
ModifiedDate	datetime	

### **Uses:**

#### **Table Production.ProductModel**

Instructions  
ModifiedDate  
Name  
ProductModelID  
rowguid

## **View Purchasing.vVendorWithAddresses**

*Vendor (company) names and addresses .*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	

### **Uses:**

#### **Table Person.Address**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

#### **Table Person.AddressType**

AddressTypeID  
Name

#### **Table Person.BusinessEntityAddress**

AddressID  
AddressTypeID  
BusinessEntityID

#### **Table Person.CountryRegion**

CountryRegionCode  
Name

#### **Table Person.StateProvince**

CountryRegionCode  
Name  
StateProvinceID

#### **Table Purchasing.Vendor**

BusinessEntityID  
Name

## **View Purchasing.vVendorWithContacts**

*Vendor (company) names and the names of vendor employees to contact.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Name	Name(nvarchar(50))	
ContactType	Name(nvarchar(50))	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	

### **Uses:**

#### **Table Person.BusinessEntityContact**

BusinessEntityID  
ContactTypeID  
PersonID

#### **Table Person.ContactType**

ContactTypeID  
Name

#### **Table Person.EmailAddress**

BusinessEntityID  
EmailAddress

#### **Table Person.Person**

BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

#### **Table Person.PersonPhone**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **Table Person.PhoneNumberType**

Name  
PhoneNumberTypeID

#### **Table Purchasing.Vendor**

BusinessEntityID  
Name

## **View Sales.vIndividualCustomer**

*Individual customers (names and addresses) that purchase Adventure Works Cycles products online.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
Demographics	xml	X

### **Uses:**

#### **Table Person.Address**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

#### **Table Person.AddressType**

AddressTypeID  
Name

#### **Table Person.BusinessEntityAddress**

AddressID  
AddressTypeID  
BusinessEntityID

#### **Table Person.CountryRegion**

CountryRegionCode  
Name

#### **Table Person.EmailAddress**

BusinessEntityID  
EmailAddress

#### **Table Person.Person**

BusinessEntityID  
Demographics  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix



Title

**Table Person.PersonPhone**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

**Table Person.PhoneNumberType**

Name  
PhoneNumberTypeID

**Table Person.StateProvince**

CountryRegionCode  
Name  
StateProvinceID

**Table Sales.Customer**

PersonID  
StoreID

## **View Sales.vPersonDemographics**

*Displays the content from each element in the xml column Demographics for each customer in the Person.Person table.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
TotalPurchaseYTD	money	X
DateFirstPurchase	datetime	X
BirthDate	datetime	X
MaritalStatus	nvarchar(1)	X
YearlyIncome	nvarchar(30)	X
Gender	nvarchar(1)	X
TotalChildren	int	X
NumberChildrenAtHome	int	X
Education	nvarchar(30)	X
Occupation	nvarchar(30)	X
HomeOwnerFlag	bit	X
NumberCarsOwned	int	X

### **Uses:**

#### **Table Person.Person**

BusinessEntityID  
Demographics

## **View Sales.vSalesPerson**

*Sales representatives (names and addresses) and their sales-related information.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
JobTitle	nvarchar(50)	
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	
TerritoryName	Name(nvarchar(50))	X
TerritoryGroup	nvarchar(50)	X
SalesQuota	money	X
SalesYTD	money	
SalesLastYear	money	

### **Uses:**

#### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle

#### **Table Person.Address**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

#### **Table Person.BusinessEntityAddress**

AddressID  
BusinessEntityID

#### **Table Person.CountryRegion**

CountryRegionCode  
Name

#### **Table Person.EmailAddress**

BusinessEntityID  
EmailAddress

#### **Table Person.Person**

BusinessEntityID  
EmailPromotion  
FirstName  
LastName

MiddleName  
Suffix  
Title

**Table Person.PersonPhone**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

**Table Person.PhoneNumberType**

Name  
PhoneNumberTypeID

**Table Person.StateProvince**

CountryRegionCode  
Name  
StateProvinceID

**Table Sales.SalesPerson**

BusinessEntityID  
SalesLastYear  
SalesQuota  
SalesYTD  
TerritoryID

**Table Sales.SalesTerritory**

Group  
Name  
TerritoryID

## **View Sales.vSalesPersonSalesByFiscalYears**

*Uses PIVOT to return aggregated sales information for each sales representative.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
SalesPersonID	int	X
FullName	nvarchar(152)	X
JobTitle	nvarchar(50)	
SalesTerritory	Name(nvarchar(50))	
2002	money	X
2003	money	X
2004	money	X

### **Uses:**

#### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName  
MiddleName

#### **Table Sales.SalesOrderHeader**

OrderDate  
SalesPersonID  
SubTotal

#### **Table Sales.SalesPerson**

BusinessEntityID  
TerritoryID

#### **Table Sales.SalesTerritory**

Name  
TerritoryID

## **View Sales.vStoreWithAddresses**

*Stores (including store addresses) that sell Adventure Works Cycles products to consumers.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AddressType	Name(nvarchar(50))	
AddressLine1	nvarchar(60)	
AddressLine2	nvarchar(60)	X
City	nvarchar(30)	
StateProvinceName	Name(nvarchar(50))	
PostalCode	nvarchar(15)	
CountryRegionName	Name(nvarchar(50))	

### **Uses:**

#### **Table Person.Address**

AddressID  
AddressLine1  
AddressLine2  
City  
PostalCode  
StateProvinceID

#### **Table Person.AddressType**

AddressTypeID  
Name

#### **Table Person.BusinessEntityAddress**

AddressID  
AddressTypeID  
BusinessEntityID

#### **Table Person.CountryRegion**

CountryRegionCode  
Name

#### **Table Person.StateProvince**

CountryRegionCode  
Name  
StateProvinceID

#### **Table Sales.Store**

BusinessEntityID  
Name

## **View Sales.vStoreWithContacts**

*Stores (including store contacts) that sell Adventure Works Cycles products to consumers.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Name	Name(nvarchar(50))	
ContactType	Name(nvarchar(50))	
Title	nvarchar(8)	X
FirstName	Name(nvarchar(50))	
MiddleName	Name(nvarchar(50))	X
LastName	Name(nvarchar(50))	
Suffix	nvarchar(10)	X
PhoneNumber	Phone(nvarchar(25))	X
PhoneNumberType	Name(nvarchar(50))	X
EmailAddress	nvarchar(50)	X
EmailPromotion	int	

### **Uses:**

#### **Table Person.BusinessEntityContact**

BusinessEntityID  
ContactTypeID  
PersonID

#### **Table Person.ContactType**

ContactTypeID  
Name

#### **Table Person.EmailAddress**

BusinessEntityID  
EmailAddress

#### **Table Person.Person**

BusinessEntityID  
EmailPromotion  
FirstName  
LastName  
MiddleName  
Suffix  
Title

#### **Table Person.PersonPhone**

BusinessEntityID  
PhoneNumber  
PhoneNumberTypeID

#### **Table Person.PhoneNumberType**

Name  
PhoneNumberTypeID

#### **Table Sales.Store**

BusinessEntityID  
Name

## **View Sales.vStoreWithDemographics**

*Stores (including demographics) that sell Adventure Works Cycles products to consumers.*

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
BusinessEntityID	int	
Name	Name(nvarchar(50))	
AnnualSales	money	X
AnnualRevenue	money	X
BankName	nvarchar(50)	X
BusinessType	nvarchar(5)	X
YearOpened	int	X
Specialty	nvarchar(50)	X
SquareFeet	int	X
Brands	nvarchar(30)	X
Internet	nvarchar(30)	X
NumberEmployees	int	X

### **Uses:**

#### **Table Sales.Store**

BusinessEntityID  
Demographics  
Name



## **Procedures:**

### **Procedure dbo.uspGetBillOfMaterials**

*Stored procedure using a recursive query to return a multi-level bill of material for the specified ProductID.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@StartProductID	int		
<i>Input parameter for the stored procedure uspGetBillOfMaterials. Enter a valid ProductID from the Production.Product table.</i>			
@CheckDate	datetime		
<i>Input parameter for the stored procedure uspGetBillOfMaterials used to eliminate components not used after that date. Enter a valid date.</i>			

### **Result:**

<b>Column</b>	<b>Data Type</b>	<b>Nullable</b>
ProductAssemblyID	int	X
ComponentID	int	X
ComponentDesc	nvarchar(50)	X
TotalQuantity	decimal(38,2)	X
StandardCost	money	X
ListPrice	money	X
BOMLevel	smallint	X
RecursionLevel	int	X

### **Uses:**

#### **Table Production.BillOfMaterials**

BOMLevel  
ComponentID  
EndDate  
PerAssemblyQty  
ProductAssemblyID  
StartDate

#### **Table Production.Product**

ListPrice  
Name  
ProductID  
StandardCost

## **Procedure dbo.uspGetEmployeeManagers**

Stored procedure using a recursive query to return the direct and indirect managers of the specified employee.

Parameter	Data Type	Default	Is Output
@BusinessEntityID	int		
<i>Input parameter for the stored procedure uspGetEmployeeManagers. Enter a valid BusinessEntityID from the HumanResources.Employee table.</i>			

### **Result:**

Column	Data Type	Nullable
RecursionLevel	int	X
BusinessEntityID	int	X
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X
OrganizationNode	nvarchar(4000)	X
ManagerFirstName	nvarchar(50)	
ManagerLastName	nvarchar(50)	

### **Uses:**

#### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle  
OrganizationNode

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName

## **Procedure dbo.uspGetManagerEmployees**

Stored procedure using a recursive query to return the direct and indirect employees of the specified manager.

Parameter	Data Type	Default	Is Output
@BusinessEntityID	int		
<i>Input parameter for the stored procedure uspGetManagerEmployees. Enter a valid BusinessEntityID of the manager from the HumanResources.Employee table.</i>			

### **Result:**

Column	Data Type	Nullable
RecursionLevel	int	X
OrganizationNode	nvarchar(4000)	X
ManagerFirstName	nvarchar(50)	
ManagerLastName	nvarchar(50)	
BusinessEntityID	int	X
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X

### **Uses:**

#### **Table HumanResources.Employee**

BusinessEntityID  
OrganizationNode

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName

## **Procedure dbo.uspGetWhereUsedProductID**

Stored procedure using a recursive query to return all components or assemblies that directly or indirectly use the specified ProductID.

Parameter	Data Type	Default	Is Output
@StartProductID	int		
<i>Input parameter for the stored procedure uspGetWhereUsedProductID. Enter a valid ProductID from the Production.Product table.</i>			
@CheckDate	datetime		
<i>Input parameter for the stored procedure uspGetWhereUsedProductID used to eliminate components not used after that date. Enter a valid date.</i>			

### **Result:**

Column	Data Type	Nullable
ProductAssemblyID	int	X
ComponentID	int	X
ComponentDesc	nvarchar(50)	X
TotalQuantity	decimal(38,2)	X
StandardCost	money	X
ListPrice	money	X
BOMLevel	smallint	X
RecursionLevel	int	X

### **Uses:**

#### **Table Production.BillOfMaterials**

BOMLevel  
ComponentID  
EndDate  
PerAssemblyQty  
ProductAssemblyID  
StartDate

#### **Table Production.Product**

ListPrice  
Name  
ProductID  
StandardCost

## **Procedure dbo.uspLogError**

Logs error information in the ErrorLog table about the error that caused execution to jump to the CATCH block of a TRY...CATCH construct. Should be executed from within the scope of a CATCH block otherwise it will return without inserting error information.

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@ErrorLogID	int	0	X

*Output parameter for the stored procedure uspLogError. Contains the ErrorLogID value corresponding to the row inserted by uspLogError in the ErrorLog table.*

### **Used by:**

**Procedure HumanResources.uspUpdateEmployeeHireInfo**

**Procedure HumanResources.uspUpdateEmployeeLogin**

**Procedure HumanResources.uspUpdateEmployeePersonalInfo**

**Trigger iWorkOrder** on **Production.WorkOrder**

**Trigger uWorkOrder** on **Production.WorkOrder**

**Trigger iPurchaseOrderDetail** on **Purchasing.PurchaseOrderDetail**

**Trigger uPurchaseOrderDetail** on **Purchasing.PurchaseOrderDetail**

**Trigger uPurchaseOrderHeader** on **Purchasing.PurchaseOrderHeader**

**Trigger dVendor** on **Purchasing.Vendor**

**Trigger iduSalesOrderDetail** on **Sales.SalesOrderDetail**

**Trigger uSalesOrderHeader** on **Sales.SalesOrderHeader**

### **Uses:**

**Procedure dbo.uspPrintError**

**Table dbo.ErrorLog**

ErrorLine  
ErrorMessage  
ErrorNumber  
ErrorProcedure  
ErrorSeverity  
ErrorState  
UserName

## **Procedure dbo.uspPrintError**

*Prints error information about the error that caused execution to jump to the CATCH block of a TRY...CATCH construct. Should be executed from within the scope of a CATCH block otherwise it will return without printing any error information.*

*No parameters.*

### **Used by:**

**Procedure dbo.uspLogError**

**Trigger iWorkOrder on Production.WorkOrder**

**Trigger uWorkOrder on Production.WorkOrder**

**Trigger iPurchaseOrderDetail on Purchasing.PurchaseOrderDetail**

**Trigger uPurchaseOrderDetail on Purchasing.PurchaseOrderDetail**

**Trigger uPurchaseOrderHeader on Purchasing.PurchaseOrderHeader**

**Trigger dVendor on Purchasing.Vendor**

**Trigger iduSalesOrderDetail on Sales.SalesOrderDetail**

**Trigger uSalesOrderHeader on Sales.SalesOrderHeader**

## **Procedure dbo.uspSearchCandidateResumes**

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@searchString	nvarchar(1000)		
@useInflectional	bit	0	
@useThesaurus	bit	0	
@language	int	0	

### **Uses:**

#### **Table HumanResources.JobCandidate**

JobCandidateID  
Resume

## **Procedure HumanResources.uspUpdateEmployeeHireInfo**

Updates the Employee table and inserts a new row in the EmployeePayHistory table with the values specified in the input parameters.

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@BusinessEntityID	int		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid BusinessEntityID from the Employee table.</i>			
@JobTitle	nvarchar(50)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a title for the employee.</i>			
@HireDate	datetime		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a hire date for the employee.</i>			
@RateChangeDate	datetime		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the date the rate changed for the employee.</i>			
@Rate	money		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the new rate for the employee.</i>			
@PayFrequency	tinyint		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the pay frequency for the employee.</i>			
@CurrentFlag	Flag(bit)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee.</i>			

### **Uses:**

#### **Procedure dbo.uspLogError**

#### **Table HumanResources.Employee**

BusinessEntityID  
CurrentFlag  
HireDate  
JobTitle

#### **Table HumanResources.EmployeePayHistory**

BusinessEntityID  
PayFrequency  
Rate  
RateChangeDate



## **Procedure HumanResources.uspUpdateEmployeeLogin**

*Updates the Employee table with the values specified in the input parameters for the given BusinessEntityID.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@BusinessEntityID	int		
<i>Input parameter for the stored procedure uspUpdateEmployeeLogin. Enter a valid EmployeeID from the Employee table.</i>			
@OrganizationNode	hierarchyid		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid ManagerID for the employee.</i>			
@LoginID	nvarchar(256)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a valid login for the employee.</i>			
@JobTitle	nvarchar(50)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a title for the employee.</i>			
@HireDate	datetime		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a hire date for the employee.</i>			
@CurrentFlag	Flag(bit)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter the current flag for the employee.</i>			

### **Uses:**

#### **Procedure dbo.uspLogError**

#### **Table HumanResources.Employee**

BusinessEntityID  
CurrentFlag  
HireDate  
JobTitle  
LoginID  
OrganizationNode

## **Procedure HumanResources.uspUpdateEmployeePersonalInfo**

Updates the Employee table with the values specified in the input parameters for the given EmployeeID.

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>	<b>Is Output</b>
@BusinessEntityID	int		
<i>Input parameter for the stored procedure uspUpdateEmployeePersonalInfo. Enter a valid BusinessEntityID from the HumanResources.Employee table.</i>			
@NationalIDNumber	nvarchar(15)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a national ID for the employee.</i>			
@BirthDate	datetime		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a birth date for the employee.</i>			
@MaritalStatus	nchar(1)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a marital status for the employee.</i>			
@Gender	nchar(1)		
<i>Input parameter for the stored procedure uspUpdateEmployeeHireInfo. Enter a gender for the employee.</i>			

### **Uses:**

**Procedure dbo.uspLogError**

**Table HumanResources.Employee**

BirthDate  
BusinessEntityID  
Gender  
MaritalStatus  
NationalIDNumber

## **Functions:**

### **Scalar Function dbo.ufnGetAccountingEndDate**

*Scalar function used in the uSalesOrderHeader trigger to set the starting account date.*

*No parameters.*

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
datetime	X

## **Scalar Function dbo.ufnGetAccountingStartDate**

*Scalar function used in the uSalesOrderHeader trigger to set the ending account date.*

*No parameters.*

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
datetime	X

## **Multistatement Table Valued Function dbo.ufnGetContactInformation**

Table value function returning the first name, last name, job title and contact type for a given contact.

Parameter	Data Type	Default
@PersonID	int	
<i>Input parameter for the table value function ufnGetContactInformation. Enter a valid PersonID from the Person.Contact table.</i>		

### **Result:**

Column	Data Type	Nullable
PersonID	int	
FirstName	nvarchar(50)	X
LastName	nvarchar(50)	X
JobTitle	nvarchar(50)	X
BusinessEntityType	nvarchar(50)	X

### **Uses:**

#### **Table HumanResources.Employee**

BusinessEntityID  
JobTitle

#### **Table Person.BusinessEntityContact**

BusinessEntityID  
ContactTypeID  
PersonID

#### **Table Person.ContactType**

ContactTypeID  
Name

#### **Table Person.Person**

BusinessEntityID  
FirstName  
LastName

#### **Table Purchasing.Vendor**

BusinessEntityID

#### **Table Sales.Customer**

PersonID  
StoreID

#### **Table Sales.Store**

BusinessEntityID

## **Scalar Function dbo.ufnGetDocumentStatusText**

*Scalar function returning the text representation of the Status column in the Document table.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@Status	tinyint	
<i>Input parameter for the scalar function ufnGetDocumentStatusText. Enter a valid integer.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
nvarchar(16)	X

## **Scalar Function dbo.ufnGetProductDealerPrice**

*Scalar function returning the dealer price for a given product on a particular order date.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@ProductID	int	
<i>Input parameter for the scalar function ufnGetProductDealerPrice. Enter a valid ProductID from the Production.Product table.</i>		
@OrderDate	datetime	
<i>Input parameter for the scalar function ufnGetProductDealerPrice. Enter a valid order date.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
money	X

### **Uses:**

#### **Table Production.Product**

ProductID

#### **Table Production.ProductListPriceHistory**

EndDate  
ListPrice  
ProductID  
StartDate

## **Scalar Function dbo.ufnGetProductListPrice**

*Scalar function returning the list price for a given product on a particular order date.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@ProductID	int	
<i>Input parameter for the scalar function ufnGetProductListPrice. Enter a valid ProductID from the Production.Product table.</i>		
@OrderDate	datetime	
<i>Input parameter for the scalar function ufnGetProductListPrice. Enter a valid order date.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
money	X

### **Uses:**

#### **Table Production.Product**

ProductID

#### **Table Production.ProductListPriceHistory**

EndDate  
ListPrice  
ProductID  
StartDate



## **Scalar Function dbo.ufnGetProductStandardCost**

*Scalar function returning the standard cost for a given product on a particular order date.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@ProductID	int	
<i>Input parameter for the scalar function ufnGetProductStandardCost. Enter a valid ProductID from the Production.Product table.</i>		
@OrderDate	datetime	
<i>Input parameter for the scalar function ufnGetProductStandardCost. Enter a valid order date.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
money	X

### **Uses:**

#### **Table Production.Product**

ProductID

#### **Table Production.ProductCostHistory**

EndDate  
ProductID  
StandardCost  
StartDate

## **Scalar Function dbo.ufnGetPurchaseOrderStatusText**

*Scalar function returning the text representation of the Status column in the PurchaseOrderHeader table.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@Status	tinyint	
<i>Input parameter for the scalar function ufnGetPurchaseOrdertStatusText. Enter a valid integer.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
nvarchar(15)	X

## **Scalar Function dbo.ufnGetSalesOrderStatusText**

*Scalar function returning the text representation of the Status column in the SalesOrderHeader table.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@Status	tinyint	
<i>Input parameter for the scalar function ufnGetSalesOrderStatusText. Enter a valid integer.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
nvarchar(15)	X

## **Scalar Function dbo.ufnGetStock**

*Scalar function returning the quantity of inventory in LocationID 6 (Miscellaneous Storage) for a specified ProductID.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@ProductID	int	
<i>Input parameter for the scalar function ufnGetStock. Enter a valid ProductID from the Production.ProductInventory table.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
int	X

### **Uses:**

#### **Table Production.ProductInventory**

LocationID  
ProductID  
Quantity

## **Scalar Function dbo.ufnLeadingZeros**

*Scalar function used by the Sales.Customer table to help set the account number.*

<b>Parameter</b>	<b>Data Type</b>	<b>Default</b>
@Value	int	
<i>Input parameter for the scalar function ufnLeadingZeros. Enter a valid integer.</i>		

### **Result:**

<b>Data Type</b>	<b>Nullable</b>
varchar(8)	X

### **Used by:**

**Table Sales.Customer**