Oracle Business Intelligence Applications User's Guide for Enterprise Asset Management Analytics

RELEASE 7.9.6.3 EXTENSION PACK

Contents

Preface

Oracle Business Intelligence Applications are comprehensive prebuilt solutions that deliver pervasive intelligence across an organization, empowering users at all level, from front line operational users to senior management, with the key information they need to maximize effectiveness. Intuitive and role-based, these solutions transform and integrate data from a range of enterprise sources, including Siebel, Oracle, PeopleSoft, SAP, and corporate data warehouses, into actionable insight that enables more effective actions, decisions, and processes.

Oracle Business Intelligence Applications are built on Oracle Business Intelligence Suite Enterprise Edition, a comprehensive next-generation BI and analytics platform.

This guide explains how to install, set up, configure, and customize Oracle Business Intelligence Applications Version 7.9.6.3 Extension Pack.

Oracle recommends reading Oracle Business Intelligence Applications Release Notes before installing or using Oracle Business Intelligence Applications. The Oracle Business Intelligence Applications Release Notes are available:

- On the Oracle Business Intelligence Applications CD-ROM.

- On the Oracle Technology Network at
  http://www.oracle.com/technology/documentation/bi_apps.html (to register for a free account on the Oracle Technology Network, go to http://www.oracle.com/technology/about/index.html).

Audience

This document is intended for BI managers and implementers of Oracle Business Intelligence Applications.

Documentation Accessibility

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Related Documents

For more information, see the following documents in the Oracle Business Intelligence Applications Release 7.9.6.3 Extension Pack documentation set (available at http://www.oracle.com/technology/documentation/bi_apps.html):

- *Oracle Business Intelligence Applications Release Notes*

- *System Requirements and Supported Platforms for Oracle Business Intelligence Applications for Oracle Data Integrator Users*

Conventions

The following text conventions are used in this document:

- **Boldface** type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

- *Italic* type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

- `Monospace` type indicates commands within a paragraph, URLs, codein examples, text that appears on the screen, or text that you enter.

Overview of Oracle Enterprise Asset Management (EAM) Analytics

Oracle EAM Analytics is a prebuilt analytical solution that is part of the Oracle BI Applications product family.

Oracle EAM provides metrics around Maintenance Costs (Preventive & Breakdown), work order backlogs, planned and unplanned work orders and resource and material utilization on the work orders. Pre-built dashboards help users analyze the maintenance costs, failures and failure costs, resource utilizations and asset genealogy.

Oracle EAM Analytics Subject Area

The Oracle EAM Analytics subject area provides KPIs based on the analytical layer of Oracle Business Intelligence Enterprise Edition (OBIEE). Since these KPI's are available on a metadata-driven Oracle Business Intelligence tool, user can personalize and modify existing reports and dashboards. It also provides flexibility to add new and modify existing KPIs.

Facts Descriptions

The measures and KPIs of Oracle EAM Analytics are grouped under the following facts

Fact – Asset Maintenance Costs	This Fact contains metrics on various Costs incurred during Asset Maintenance. This Fact is analyzable by Time, Organization, Asset, and Work Order.
Fact – Asset Maintenance Failures	This Fact contains metrics on number of failures, time required to repair and the respective cost incurred. This Fact is analyzable by Asset, Time, Organization, Department and Work Order.
Fact – Asset Maintenance Workorders	This Fact provides metrics on Planned and Unplanned Work Orders, Yield, Backlog related measures and Work Order Completion aging Bucketing. This fact is analyzable by Time, Organization, Asset and Work Order.
Fact – Inventory Balance	This fact contains measures related to Inventory Items i.e. Various Quantities and their respective Amounts. This Fact is analyzable by Time, Organization and Product.
Fact – Resource Analyzer	This Fact contains metrics on Available and Standard Hours for a Resource and Utilization and Efficiency metrics. This Fact is analyzable by Work Order, Time, Resource, Department and Organization.
Fact – Asset Maintenance Transactions	This Fact contains metrics on Material and Resource transactions and is analyzable by Time, Product, Inventory Product, Organization and Maintenance Work Orders.

Subject Area Details:

The following table provides the details of the subject area present for Oracle EAM Analytics.

Presentation Table	Presentation Column	Description
Maintenance Work Orders	Actual Completion Date	Work Order Actual Completion Date
Maintenance Work Orders	Actual Start Date	Work Order Actual Start Date
Maintenance Work Orders	Date Closed	Work Order Closed Date
Maintenance Work Orders	Date Released	Work Order Released Date
Maintenance Work Orders	Work Order Name	Maintenance Work Oder Name
Maintenance Work Orders	Work Order Description	Maintenance Work Order Description
Maintenance Work Orders	Work Order Type Description	The type of the maintenance work order
Maintenance Work Orders	Planned Completion Date	Planned Completion Date
Maintenance Work Orders	Planned Start Date	Planned Start Date

Presentation Table	Presentation Column	Description
Maintenance Work Orders	Work Order status	Status of the Maintenance Workorder
Department	Department Name	Name of the Department
Department	Department Code	Code of the Department Name
Asset Install Location	Location Name	Identifies the business location name
Asset Install Location	Location Description	This is the description of the location
Asset Install Location	Location Type	Identifies the type of location
Asset Install Location	Disabled Flag	This flag indicates whether the location is enabled or not
Asset Install Location	Level1 Name	Identifies the first level in location hierarchy
Asset Install Location	Level2 Name	Identifies the second level in location hierarchy
Asset Install Location	Level3 Name	Identifies the third level in location hierarchy
Asset Install Location	Level4 Name	Identifies the fourth level in location hierarchy
Asset Install Location	Level5 Name	Identifies the fifth level in location hierarchy
Asset Install Location	Level6 Name	Identifies the sixth level in location hierarchy
Asset Install Location	Level7 Name	Identifies the seventh level in location hierarchy
Asset Install Location	Level8 Name	Identifies the eight level in location hierarchy
Asset Install Location	Level9 Name	Identifies the ninth level in location hierarchy
Asset Install Location	Level10 Name	Identifies the tenth level in location hierarchy
Asset Install Location	Top Level Name	Identifies the top most level in location hierarchy
Asset	Accounting Class Code	This is the Maintenance Account Class
Asset	Acquired Date	This is the Date on the Which the maintenance Asset is acquired

Presentation Table	Presentation Column	Description
Asset	Active Flag	Status of the Maintenance Asset
Asset	Asset Group	Name of the Asset Group
Asset	Asset Number	Maintenance Asset Number
Asset	Asset Description	Maintenance Asset Description
Asset	Expiry Date	Date on Which the Asset is going to Expire
Asset	External Reference	This is the External Reference of the Maintenance Asset
Asset	Installed Date	This is the Date on which the Asset is installed
Asset	Serial Number	This is the Unique Serial Number of the Maintenance Asset
Asset	Asset Cost	Market price of the Asset
Asset	Asset Status	This is the Maintenance Asset Status
Organization	Org Number	This is a unique number for identifying the business organization. If several organizations exist with the same name this could be a distinguishing factor
Organization	Org Name	This the name of the business organization
Organization	Org Hierarchy 1 Number	Identifies the first level in organization hierarchy
Organization	Org Hierarchy 1 Name	This is the name of the first level in organization hierarchy
Organization	Org Hierarchy 2 Number	Identifies the second level in organization hierarchy
Organization	Org Hierarchy 2 Name	This is the name of the second level in organization hierarchy
Organization	Org Hierarchy 3 Number	Identifies the third level in organization hierarchy
Organization	Org Hierarchy 3 Name	This is the name of the third level in organization hierarchy
Organization	Org Hierarchy 4 Number	Identifies the fourth level in organization hierarchy
Organization	Org Hierarchy 4 Name	This is the name of the fourth level in organization hierarchy

Presentation Table	Presentation Column	Description
Organization	Org Hierarchy 5 Number	Identifies the fifth level in organization hierarchy
Organization	Org Hierarchy 5 Name	This is the name of the fifth level in organization hierarchy
Organization	Org Hierarchy 6 Number	Identifies the sixth level in organization hierarchy
Organization	Org Hierarchy 6 Name	This is the name of the sixth level in organization hierarchy
Organization	Org Hierarchy 7 Number	Identifies the seventh level in organization hierarchy
Organization	Org Hierarchy 7 Name	This is the name of the seventh level in organization hierarchy
Organization	Org Hierarchy 8 Number	Identifies the eight level in organization hierarchy
Organization	Org Hierarchy 8 Name	This is the name of the eight level in organization hierarchy
Organization	Org Hierarchy 9 Number	Identifies the ninth level in organization hierarchy
Organization	Org Hierarchy 9 Name	This is the name of the ninth level in organization hierarchy
Organization	Org Hierarchy 10 Number	Identifies the tenth level in organization hierarchy
Organization	Org Hierarchy 10 Name	This is the name of the tenth level in organization hierarchy
Organization	Org Hierarchy 11 Number	Identifies the eleventh level in organization hierarchy
Organization	Org Hierarchy 11 Name	This is the name of the eleventh level in organization hierarchy
Organization	Org Hierarchy 12 Number	Identifies the level twelve in organization hierarchy
Organization	Org Hierarchy 12 Name	This is the name of level twelve in organization hierarchy
Organization	Org Hierarchy 13 Number	Identifies the level thirteen in organization hierarchy
Organization	Org Hierarchy 13 Name	This is the name of level thirteen in

Presentation Table	Presentation Column	Description
		organization hierarchy
Organization	Org Top Hierarchy Number	Identifies the top most level in organization hierarchy
Organization	Org Top Hierarchy Name	This is the name of top most level in organization hierarchy
Product	Brand	This the brand to which the product belongs
Product	Color	This identifies the color of the product
Product	Configurable Product Flag	This indicates whether the product is configurable or not
Product	Configuration Category	This code identifies the configuration category
Product	Discontinuation Date	This is the date on which the product was discontinued from the market
Product	Division	This code identifies the division. Products can be classified by the division code to determine their sales or business area
Product	Make Buy Flag	This flag indicates whether the product was made in the organization or bought by the organization. Possible values include 'M' or 'B'
Product	Plant Safety Stock	This is a product safety stock level at a plant. The safety stock level helps to maintain sufficient on hand inventory to prevent stock outs during replenishment cycles
Product	Product Group	This is a product group code. Product with similar attributes can be grouped The product hierarchies can be defined based on product groups
Product	Product Group Description	This is the description of product group code
Product	Product Name	This is a detailed description of the product
Product	Product Number	This is a unique number to identify the product

Presentation Table	Presentation Column	Description
Product	Product Repurchase Period	This is the expected period between the purchases of a product. It is used for sensitivity and profile styles of analysis. The repurchase period is stored in monthly units
Product	Product Type Code	This code identifies the product type
Product	Product Type Description	This is the description of the product type code
Product	Shelf Life	This is the shelf life of the product
Product	Source Of Supply	A field for determining any unique sources of supply for the product - internal or external
Product	Standard UOM Code	This is the standard unit of measure code in which the product is managed
Resource	Resource Group Description	This is the Group Description Associated with the Resource Group
Resource	Resource Name	Name of the Resource
Resource	Resource Number	Unique Code of the Resource
Resource	Resource Group	This is the Group Name Associated with the Resources
Resource	Resource Type	This is the Resource type
Asset Specification	Asset Attribute1	Identifies the value in Asset Attribute1
Asset Specification	Asset Attribute2	Identifies the value in Asset Attribute2
Asset Specification	Asset Attribute3	Identifies the value in Asset Attribute3
Asset Specification	Asset Attribute4	Identifies the value in Asset Attribute4
Asset Specification	Asset Attribute5	Identifies the value in Asset Attribute5
Asset Specification	Asset Attribute6	Identifies the value in Asset Attribute6
Asset Specification	Asset Attribute7	Identifies the value in Asset Attribute7
Asset Specification	Asset Attribute8	Identifies the value in Asset Attribute8
Asset Specification	Asset Attribute9	Identifies the value in Asset Attribute9
Asset Specification	Asset Attribute10	Identifies the value in Asset Attribute10
Asset Specification	Asset Attribute11	Identifies the value in Asset Attribute11

Presentation Table	Presentation Column	Description
Asset Specification	Asset Attribute12	Identifies the value in Asset Attribute12
Asset Specification	Asset Attribute13	Identifies the value in Asset Attribute13
Asset Specification	Asset Attribute14	Identifies the value in Asset Attribute14
Asset Specification	Asset Attribute15	Identifies the value in Asset Attribute15
Asset Specification	Asset Attribute16	Identifies the value in Asset Attribute16
Asset Specification	Asset Attribute17	Identifies the value in Asset Attribute17
Asset Specification	Asset Attribute18	Identifies the value in Asset Attribute18
Asset Specification	Asset Attribute19	Identifies the value in Asset Attribute19
Asset Specification	Asset Attribute20	Identifies the value in Asset Attribute20
Asset Specification	Asset Attribute21	Identifies the value in Asset Attribute21
Asset Specification	Asset Attribute22	Identifies the value in Asset Attribute22
Asset Specification	Asset Attribute23	Identifies the value in Asset Attribute23
Asset Specification	Asset Attribute24	Identifies the value in Asset Attribute24
Asset Specification	Asset Attribute25	Identifies the value in Asset Attribute25
Asset Specification	Asset Attribute26	Identifies the value in Asset Attribute26
Asset Specification	Asset Attribute27	Identifies the value in Asset Attribute27
Asset Specification	Asset Attribute28	Identifies the value in Asset Attribute28
Asset Specification	Asset Attribute29	Identifies the value in Asset Attribute29
Asset Specification	Asset Attribute30	Identifies the value in Asset Attribute30
Asset Specification	Asset Attribute31	Identifies the value in Asset Attribute31
Asset Specification	Asset Attribute32	Identifies the value in Asset Attribute32
Asset Specification	Asset Attribute33	Identifies the value in Asset Attribute33
Asset Specification	Asset Attribute34	Identifies the value in Asset Attribute34
Asset Specification	Asset Attribute35	Identifies the value in Asset Attribute35
Asset Specification	Asset Attribute36	Identifies the value in Asset Attribute36
Asset Specification	Asset Attribute37	Identifies the value in Asset Attribute37
Asset Specification	Asset Attribute38	Identifies the value in Asset Attribute38
Asset Specification	Asset Attribute39	Identifies the value in Asset Attribute39

Presentation Table	Presentation Column	Description
Asset Specification	Asset Attribute40	Identifies the value in Asset Attribute40
Asset Specification	Asset Attribute41	Identifies the value in Asset Attribute41
Asset Specification	Asset Attribute42	Identifies the value in Asset Attribute42
Asset Specification	Asset Attribute43	Identifies the value in Asset Attribute43
Asset Specification	Asset Attribute44	Identifies the value in Asset Attribute44
Asset Specification	Asset Attribute45	Identifies the value in Asset Attribute45
Asset Specification	Asset Attribute46	Identifies the value in Asset Attribute46
Asset Specification	Asset Attribute47	Identifies the value in Asset Attribute47
Asset Specification	Asset Attribute48	Identifies the value in Asset Attribute48
Asset Specification	Asset Attribute49	Identifies the value in Asset Attribute49
Asset Specification	Asset Attribute50	Identifies the value in Asset Attribute50
Asset Specification	Asset Attribute51	Identifies the value in Asset Attribute51
Asset Specification	Asset Attribute52	Identifies the value in Asset Attribute52
Asset Specification	Asset Attribute53	Identifies the value in Asset Attribute53
Asset Specification	Asset Attribute54	Identifies the value in Asset Attribute54
Asset Specification	Asset Attribute55	Identifies the value in Asset Attribute55
Asset Specification	Asset Attribute56	Identifies the value in Asset Attribute56
Asset Specification	Asset Attribute57	Identifies the value in Asset Attribute57
Asset Specification	Asset Attribute58	Identifies the value in Asset Attribute58
Asset Specification	Asset Attribute59	Identifies the value in Asset Attribute59
Asset Specification	Asset Attribute60	Identifies the value in Asset Attribute60
Asset Specification	Asset Attribute61	Identifies the value in Asset Attribute61
Asset Specification	Asset Attribute62	Identifies the value in Asset Attribute62
Asset Specification	Asset Attribute63	Identifies the value in Asset Attribute63
Asset Specification	Asset Attribute64	Identifies the value in Asset Attribute64
Asset Specification	Asset Attribute65	Identifies the value in Asset Attribute65
Asset Specification	Asset Attribute66	Identifies the value in Asset Attribute66
Asset Specification	Asset Attribute67	Identifies the value in Asset Attribute67

Presentation Table	Presentation Column	Description
Asset Specification	Asset Attribute68	Identifies the value in Asset Attribute68
Asset Specification	Asset Attribute69	Identifies the value in Asset Attribute69
Asset Specification	Asset Attribute70	Identifies the value in Asset Attribute70
Asset Specification	Asset Attribute71	Identifies the value in Asset Attribute71
Asset Specification	Asset Attribute72	Identifies the value in Asset Attribute72
Asset Specification	Asset Attribute73	Identifies the value in Asset Attribute73
Asset Specification	Asset Attribute74	Identifies the value in Asset Attribute74
Asset Specification	Asset Attribute75	Identifies the value in Asset Attribute75
Asset Specification	Asset Attribute76	Identifies the value in Asset Attribute76
Asset Specification	Asset Attribute77	Identifies the value in Asset Attribute77
Asset Specification	Asset Attribute78	Identifies the value in Asset Attribute78
Asset Specification	Asset Attribute79	Identifies the value in Asset Attribute79
Asset Specification	Asset Attribute80	Identifies the value in Asset Attribute80
Asset Specification	Asset Attribute81	Identifies the value in Asset Attribute81
Asset Specification	Asset Attribute82	Identifies the value in Asset Attribute82
Asset Specification	Asset Attribute83	Identifies the value in Asset Attribute83
Asset Specification	Asset Attribute84	Identifies the value in Asset Attribute84
Asset Specification	Asset Attribute85	Identifies the value in Asset Attribute85
Asset Specification	Asset Attribute86	Identifies the value in Asset Attribute86
Asset Specification	Asset Attribute87	Identifies the value in Asset Attribute87
Asset Specification	Asset Attribute88	Identifies the value in Asset Attribute88
Asset Specification	Asset Attribute89	Identifies the value in Asset Attribute89
Asset Specification	Asset Attribute90	Identifies the value in Asset Attribute90
Asset Specification	Asset Attribute91	Identifies the value in Asset Attribute91
Asset Specification	Asset Attribute92	Identifies the value in Asset Attribute92
Asset Specification	Asset Attribute93	Identifies the value in Asset Attribute93
Asset Specification	Asset Attribute94	Identifies the value in Asset Attribute94
Asset Specification	Asset Attribute95	Identifies the value in Asset Attribute95

Presentation Table	Presentation Column	Description
Asset Specification	Asset Attribute96	Identifies the value in Asset Attribute96
Asset Specification	Asset Attribute97	Identifies the value in Asset Attribute97
Asset Specification	Asset Attribute98	Identifies the value in Asset Attribute98
Asset Specification	Asset Attribute99	Identifies the value in Asset Attribute99
Asset Specification	Asset Attribute100	Identifies the value in Asset Attribute100
Time	Date	Calendar date in the Year
Time	Week	Calendar Week Number in the Year
Time	Month	Calendar Month in the Year
Time	Quarter	Calendar Quarter in the Year
Time	Year	Calendar Year
Time	Enterprise Week	Week number in the enterprise year
Time	Enterprise Period	Month number in the enterprise year
Time	Enterprise Quarter	Quarter number in the enterprise year
Time	Enterprise Year	Enterprise Year
Time	Fiscal Date	Fiscal Date
Time	Fiscal Period	Fiscal Month in fiscal year
Time	Fiscal Period Number	Fiscal Month number in fiscal year
Time	Fiscal Week Name	Fiscal Week number in fiscal year
Time	Fiscal Half	Fiscal Half year number in fiscal year
Time	Fiscal Quarter	Fiscal Quarter in fiscal year
Time	Fiscal Year	Fiscal Year
Time	Fiscal Calendar name	Calendar Name of fiscal year
Fact - Asset Maintenance Costs	Actual Equipment Cost	Actual equipment cost incurred for the maintenance workorder
Fact - Asset Maintenance Costs	Actual Labor Cost	Actual labor cost incurred for the maintenance workorder
Fact - Asset Maintenance Costs	Actual Maintenance Cost	Actual Maintenance Cost of the Maintenance Work order
Fact - Asset Maintenance	Actual Material Cost	Actual Material cost incurred for the

Presentation Table	Presentation Column	Description
Costs		maintenance workorder
Fact - Asset Maintenance Costs	Breakdown Cost	Sum of actual material cost , actual labor cost and actual equipment cost incurred for the workorder where shutdown is required
Fact - Asset Maintenance Costs	Estimated Maintenance Cost	Total Estimated Maintenance Cost of the Work Order This include System and Manual Estimates
Fact - Asset Maintenance Costs	Manual Estimated Equipment Cost	Manually Estimated Equipment cost for the Maintenance workorder
Fact - Asset Maintenance Costs	Manual Estimated Labor Cost	Manually Estimated Labour cost for the Maintenance workorder
Fact - Asset Maintenance Costs	Manual Estimated Material Cost	Manually Estimated Material cost for the Maintenance workorder
Fact - Asset Maintenance Costs	Preventive Cost	Total Maintenance Cost for Planned Workorders
Fact - Asset Maintenance Costs	System Estimated Equipment Cost	System Estimated equipment cost for the maintenance workorder
Fact - Asset Maintenance Costs	System Estimated Labour Cost	System Estimated Labor cost for the maintenance workorder
Fact - Asset Maintenance Costs	System Estimated Material Cost	System Estimated Material cost for the maintenance workorder
Fact - Asset Maintenance Costs	YTD Actual Maintenance Cost	is the current year to date maintenance cost incurred on an asset
Fact - Asset Maintenance Costs	YTD Estimated Maintenance Cost	is the current year to date estimated maintenance cost of an asset
Fact - Asset Maintenance Costs	Year Ago Actual Maintenance Cost	is the prior year maintenance cost incurred on an asset
Fact - Asset Maintenance Costs	Year Ago Estimated Maintenance Cost	is the prior year estimated maintenance cost of an asset
Fact - Asset Maintenance Failures	Days Between Failures	This is the Average Failure time between Different Failures in days
Fact - Asset Maintenance Failures	Failure Cost	Total Cost of the Failure for the Assets
Fact - Asset Maintenance Failures	No. of Failures	Number of Failure Instances

Presentation Table	Presentation Column	Description
Fact - Asset Maintenance Failures	Mean Time Between Failures (Days)	This is the Mean Time Between Different Instances of Failure in Days
Fact - Asset Maintenance Failures	Mean Time To Repair (Days)	This is the Mean time taken to Repair the Asset
Fact - Asset Maintenance Failures	Prior YTD Failure Cost	This is the Prior Year YTD Failure Cost of the Asset
Fact - Asset Maintenance Failures	Time To Repair	This is the Total Time taken to Repair the Asset
Fact - Asset Maintenance Failures	Year Ago failure Cost	Failure Cost as of Last Year
Fact - Asset Maintenance Failures	YTD Failure Cost	This is the YTD Failure cost of the Assets
Fact - Asset Maintenance Workorders	0-5 Days Workorder Completion Aging	Total No. of Work orders which are completed in between 0-5 Days
Fact - Asset Maintenance Workorders	11-15 Days Workorder Completion Aging	Total No. of Work orders which are completed in between 11-15 Days
Fact - Asset Maintenance Workorders	16-20 Days Workorder Completion Aging	Total No. of Work orders which are completed in between 16-20 Days
Fact - Asset Maintenance Workorders	6-10 Days Workorder Completion Aging	Total No. of Work orders which are completed in between 6-10 Days
Fact - Asset Maintenance Workorders	>20 Days Workorder Completion Aging	Total No. of Work orders which are completed in More than 20 Days
Fact - Asset Maintenance Workorders	Backlog %	This is the total Backlog% as of the Last Run Date
Fact - Asset Maintenance Workorders	Backlog Work Orders	This is the total Backlog Workorders (Planned Workorders-Completed Work Orders)as of the Last Run Date
Fact - Asset Maintenance Workorders	Count of Work Orders	Total Count of Workorders
Fact - Asset Maintenance Workorders	Days Delayed	This is the No. of Days Delayed from the Planned Completion Date to the Actual Completion Date of the Maintenance Work Order
Fact - Asset Maintenance Workorders	Down Time	Total Down Time of the Asset
Fact - Asset Maintenance	On-Time Completion	Total Work Orders Completed before the

Presentation Table	Presentation Column	Description
Workorders		Planned/Scheduled Completion Date
Fact - Asset Maintenance Workorders	On-Time Completion %	This is the % of On-Time Completion with respect to the Total Work Orders
Fact - Asset Maintenance Workorders	Past Due Backlog %	This is the % Measure of Past Due Backlog Work orders with the Total Workorders
Fact - Asset Maintenance Workorders	Past Due Backlog Quantity	Total Work Orders Which are not Completed as of today and crossed Planned/Schedule Completion Date
Fact - Asset Maintenance Workorders	Planned Workorders	Total Count of Work Orders which are Planned
Fact - Asset Maintenance Workorders	Start Quantity	Work Order Count
Fact - Asset Maintenance Workorders	Expected Yield	Expected yield for a workorder
Fact - Asset Maintenance Workorders	Unplanned Workorders	Total Count of Work Orders which are not Planned
Fact - Resource Analyzer	Available Hours	Total Hours Available for the Resource
Fact - Resource Analyzer	Resource Utilization	Actual Utilization of the Resources in an organization when compared to the Available Hours
Fact - Resource Analyzer	Resource Efficiency	Actual Hours / Standard Hours
Fact - Resource Analyzer	Standard Hours	Standard Hours Required for completing the workorder/Job
Fact - Asset Maintenance Transactions	Actual Material Usage Quantity	This is the Actual Material Consumed for the Maintenance Work Orders
Fact - Asset Maintenance Transactions	Actual Material Usage Value	This is the Actual Material Cost for the Maintenance Work Orders
Fact - Asset Maintenance Transactions	Actual Resource Usage Hours	This is the Resource Actual Hours spent on the Maintenance Work Orders
Fact - Asset Maintenance Transactions	Actual Resource Usage Value	This Is the Actual Resource Value for the Maintenance Work Orders
Fact - Inventory Balance	Inventory Part #	Total Count of Inventory Items existing in the maintenance organization
Fact - Inventory Balance	Inventory Parts Value	Total value of Inventory Items existing in the maintenance organization

Presentation Table	Presentation Column	Description
Fact - Inventory Balance	Spares Value	Total value of spares in maintenance organization
Fact - Inventory Balance	Tools Value	Total value of tools in maintenance organization
Fact - Inventory Balance	Available Amount	This metric is the quantity of product available to fill open orders. Available product is defined as unrestricted inventory that is not reserved, blocked or otherwise unavailable for immediate demand fulfilment. The Available Quantity metric an important component for understanding historical inventory fluctuations, stock outs, and allocation situations. By analyzing inventory activity over time, slow-moving and obsolete materials can be identified
Fact - Inventory Balance	Available Quantity	This metric is the quantity of product available to fill open orders. Available product is defined as unrestricted inventory that is not reserved, blocked or otherwise unavailable for immediate demand fulfilment. The Available Quantity metric an important component for understanding historical inventory fluctuations, stock outs, and allocation situations. By analyzing inventory activity over time, slow-moving and obsolete materials can be identified
Fact - Inventory Balance	Available Consignment Amount	Quantity in the warehouse that belongs to a consignment vendor and is not subject to usage restrictions. A consignment vendor retains ownership of the quantity until it is withdrawn from stores
Fact - Inventory Balance	Available Consignment Quantity	Quantity in the warehouse that belongs to a consignment vendor and is not subject to usage restrictions. A consignment vendor retains ownership of the quantity until it is withdrawn from stores
Fact - Inventory Balance	Block Consignment Amount	Quantity of all blocked batches that belong to a consignment vendor. Example of batches are : Production lots, delivery lots etc
Fact - Inventory Balance	Block Consignment Quantity	Quantity of all blocked batches that belong to a consignment vendor. Example of

Presentation Table	Presentation Column	Description
		batches are : Production lots, delivery lots etc
Fact - Inventory Balance	Blocked Amount	This is the total physical quantity of the product under hold for specific reasons (in inventory unit if measure).The quantity would become available for use once the hold is released -- these would typically include stocks that may have been damaged slightly and need to undergo a re-certification process etc.
Fact - Inventory Balance	Blocked Quantity	This is the total physical quantity of the product under hold for specific reasons (in inventory unit if measure).The quantity would become available for use once the hold is released -- these would typically include stocks that may have been damaged slightly and need to undergo a re-certification process etc.
Fact - Inventory Balance	In Transit Amount	This is the total physical quantity in transit for the product (in inventory unit of measure)
Fact - Inventory Balance	In Transit Quantity	This is the total physical quantity in transit for the product (in inventory unit of measure)
Fact - Inventory Balance	Inspection Amount	This is the total physical quantity of the product under inspection (in inventory unit of measure). This quantity would become available for use once they pass inspection
Fact - Inventory Balance	Inspection Consignment Amount	Quantity in the warehouse that belongs to a consignment vendor and is in quality inspection. A consignment vendor retains ownership of the quantity until it is withdrawn from the stores
Fact - Inventory Balance	Inspection Consignment Quantity	Quantity in the warehouse that belongs to a consignment vendor and is in quality inspection. A consignment vendor retains ownership of the quantity until it is withdrawn from the stores
Fact - Inventory Balance	Inspection Quantity	This is the total physical quantity of the product under inspection (inventory unit of measure). The quantity would become

Presentation Table	Presentation Column	Description
		available for use once they pass inspection.
Fact - Inventory Balance	Obsolete Inventory Value	Inventory Value that got obsolete or expired
Fact - Inventory Balance	Obsolete Inventory Quantity	Inventory Quantity that got obsolete or expired
Fact - Inventory Balance	Reorder Point	Reorder Point is the inventory level at storage location that triggers a re-order for replenishment of this product
Fact - Inventory Balance	Replenishment Amount	This represents the standard re-order quantity size for replenishment of inventory of this product (in inventory units of measure)
Fact - Inventory Balance	Replenishment Quantity	This represents the standard re-order quantity size for replenishment of inventory of this product (in inventory units of measure)
Fact - Inventory Balance	Returned Amount	This is the total quantity of product returns that currently exist (in inventory units of measure) . This quantity would become available for use once they pass return inspection or merge into regular product inventory
Fact - Inventory Balance	Returned Quantity	This is the total quantity of product returns that currently exist (in inventory units of measure) . This quantity would become available for use once they pass return inspection or merge into regular product inventory

Kimball Matrix:

The Kimball Matrix, displaying the joins between the facts and dimensions are provided below. The matrix helps understanding the overall subject area in terms of which measures is analyzable by which dimension (please see the diagram below)

Dimension/Metric Name	Asset	Plant	Organization	Department	Workorder	Product	Year	Quarter	Month	Day
Metric Name							Year	Quarter	Month	Day
Planned WorkOrders	✓	✓					✓	✓	✓	✓
Unplanned WorkOrders	✓	✓					✓	✓	✓	✓
Count of Work Orders	✓	✓					✓	✓	✓	✓
Backlog Work Orders	✓	✓					✓	✓	✓	✓
Past Due Backlog Quantity	✓	✓					✓	✓	✓	✓
Days Delayed	✓	✓					✓	✓	✓	✓
On-Time Completion	✓	✓					✓	✓	✓	✓
Down Time	✓	✓					✓	✓	✓	✓
On-Time Completion %	✓	✓					✓	✓	✓	✓
Backlog %	✓	✓					✓	✓	✓	✓
Past Due Backlog %	✓	✓					✓	✓	✓	✓
0-5 Days WorkOrder Completion Aging	✓	✓					✓	✓	✓	✓
6-10 Days WorkOrder Completion Aging	✓	✓					✓	✓	✓	✓
11-15 Days WorkOrder Completion Aging	✓	✓					✓	✓	✓	✓
16-20 Days WorkOrder Completion Aging	✓	✓					✓	✓	✓	✓
>20 Days WorkOrder Completion Aging	✓	✓					✓	✓	✓	✓
Actual Material Cost	✓				✓		✓	✓	✓	✓
Actual Labour Cost	✓				✓		✓	✓	✓	✓
Actual Equipment Cost	✓				✓		✓	✓	✓	✓
Actual Maintenance Cost	✓				✓		✓	✓	✓	✓
System Estimated Material Cost	✓				✓		✓	✓	✓	✓
System Estimated Labor Cost	✓				✓		✓	✓	✓	✓
System Estimated Equipment Cost	✓				✓		✓	✓	✓	✓
Manual Estimated Material Cost	✓				✓		✓	✓	✓	✓
Manual Estimated Labor Cost	✓				✓		✓	✓	✓	✓
Manual Estimated Equipment Cost	✓				✓		✓	✓	✓	✓
Preventive Cost	✓				✓		✓	✓	✓	✓
Breakdown Cost	✓				✓		✓	✓	✓	✓
Estimated Maintenance Cost	✓				✓		✓	✓	✓	✓
YTD Actual Maintenance Cost	✓				✓		✓			
YTD Estimated Maintenance Cost	✓				✓		✓			
Prior YTD Actual Maintenance Cost	✓				✓		✓			
Prior YTD Estimated Maintenance Cost	✓				✓		✓			

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
Year Ago Actual Maintenance Cost	✓				✓		✓			
Year Ago Estimated Maintenance Cost	✓				✓		✓			
No. of Failures	✓	✓		✓	✓	✓	✓	✓	✓	✓
Mean Time Between Failures (Days)	✓	✓		✓	✓	✓	✓	✓	✓	✓
Mean Time To Repair	✓	✓		✓	✓	✓	✓	✓	✓	✓
Year Ago Failure Cost	✓	✓		✓	✓	✓	✓			
Prior YTD Failure Cost	✓	✓		✓	✓	✓	✓			
YTD Failure Cost	✓	✓		✓	✓	✓	✓			
Failure Cost	✓	✓		✓	✓	✓	✓	✓	✓	✓
Time To Repair	✓	✓		✓	✓	✓	✓	✓	✓	✓
Days Between Failures	✓	✓		✓	✓	✓	✓	✓	✓	✓
Available Hours	✓						✓	✓	✓	✓
Standard Hours	✓						✓	✓	✓	✓
Resource Utilization	✓						✓	✓	✓	✓
Resource Efficiency	✓						✓	✓	✓	✓
Inventory Parts #			✓			✓	✓	✓	✓	✓
Inventory Parts Value			✓			✓	✓	✓	✓	✓
Spares Value			✓			✓	✓	✓	✓	✓
Tools Value			✓			✓	✓	✓	✓	✓
Available Amount			✓			✓	✓	✓	✓	✓
Available Quantity			✓			✓	✓	✓	✓	✓
Available Consignment Amount			✓			✓	✓	✓	✓	✓
Available Consignment Quantity			✓			✓	✓	✓	✓	✓
Block Consignment Amount			✓			✓	✓	✓	✓	✓
Block Consignment Quantity			✓			✓	✓	✓	✓	✓
Blocked Amount			✓			✓	✓	✓	✓	✓
Blocked Quantity			✓			✓	✓	✓	✓	✓
In Transit Amount			✓			✓	✓	✓	✓	✓
In Transit Quantity			✓			✓	✓	✓	✓	✓
Inspection Amount			✓			✓	✓	✓	✓	✓
Inspection Consignment Amount			✓			✓	✓	✓	✓	✓
Inspection Consignment Quantity			✓			✓	✓	✓	✓	✓
Inspection Quantity			✓			✓	✓	✓	✓	✓
Obsolete Inventory Value			✓			✓	✓	✓	✓	✓
Obsolete Inventory Quantity			✓			✓	✓	✓	✓	✓
Reorder Point			✓			✓	✓	✓	✓	✓
Replenishment Amount			✓			✓	✓	✓	✓	✓
Replenishment Quantity			✓			✓	✓	✓	✓	✓
Returned Amount			✓			✓	✓	✓	✓	✓
Returned Quantity			✓			✓	✓	✓	✓	✓
Actual Material Usage Quantity					✓	✓	✓	✓	✓	✓
Actual Material Usage Value					✓	✓	✓	✓	✓	✓
Actual Resource Usage Hours					✓	✓	✓	✓	✓	✓
Actual Resource Usage Value					✓	✓	✓	✓	✓	✓

Oracle EAM Analytics Dashboard

Pre-packaged content for Oracle EAM Analytics is grouped under seven dashboard areas – KPIs, Maintenance Cost Summary, Work Order Summary, Inventory and Costing, Quality Analysis, Resource Analysis and Asset Genealogy.

Executive KPIs Dashboard Page:

The Executive KPIs page provides the user a complete 360 degree view of Workorders, Maintenance Cost, Workorder Cost and other related costs, Inventory Values, Resource efficiency and Utilization and Repair related metrics.

Navigation: Select Asset Management Dashboard and click on the KPI Tab.

This page contains the following reports:

Workorders Report

It contains the following KPIs:

- Work Orders
- Backlog %
- On-Time Completion %

User can drill on to any KPI in this report to go to the Work Order Summary page for further analysis.

Cost Report

It contains the following KPIs:

- Maintenance Cost
- Preventive Cost
- Breakdown Cost
- Work Order Cost

User can drill on to any KPI in this report to go to the Maintenance Cost Summary page for further analysis.

Inventory Report

It contains the following KPIs:

- Inventory Value
- Inventory Quantity

User can drill on to any KPI in this report to go to the Inventory and Costing page for further analysis.

Quality Report

It contains the following KPIs:

- Mean Time Between Failures (Days)
- Failure Frequency
- Mean Time to Repair (Days)

User can drill on to any KPI in this report to go to the Quality Analysis page for further analysis.

Resource Report

It contains the following KPIs:

- Resource Efficiency
- Resource Utilization

User can drill on to any KPI in this report to go to the Resource Analysis page for further analysis.

Work Order Analysis by Plant Report

Work Order Analysis by Plant report displays following Columns:

- Plant Name
- Backlog
- On-Time Completion %

Maintenance Cost Summary Dashboard Page

Maintenance Cost Summary page provides information about the Maintenance Costs incurred across various Asset Groups.

Parameters: The reports in this page are analysable by the following parameters:

- Fiscal Year
- Fiscal Quarter
- Fiscal Period
- Asset Group
- Maintenance Organization Name.

This page contains three reports – Maintenance Cost Details, Breakdown & Preventive Cost Analysis and Cost Distribution.

Maintenance Cost Details Report

The Summary report provides summary level information about the Estimated and Actual Maintenance Cost across various Asset Groups. It contains the following columns:

- Asset Group
- Estimated Maintenance Cost
- Estimated Maintenance Cost %
- Actual Maintenance Cost
- Actual Maintenance Cost %
- Variance
- Variance %

Further drill on the Asset Group takes the user to Maintenance Cost Details by Asset report which provides detailed information about the Assets within the group and the related Costs.

Further drill on the Asset Number takes user to Maintenance Cost Details by Workorder report which provides detailed information about the Asset, all Work Orders executed for the asset and the related Costs and Variances.

Breakdown Cost & Preventive Cost Analysis Report

This report provides information on the Preventive and Breakdown Costs across various Asset Groups. It contains the following columns:

- Asset Group
- Preventive Cost
- Preventive Cost %
- Breakdown Cost
- Breakdown Cost %

Cost Distribution Report

This report is generated as a pie chart where Preventive Cost % and Breakdown Cost % is distributed across various Asset Groups. View by Option is provided to choose Preventive Cost % and Breakdown Cost%.

Work Order Summary Dashboard Page

The Work Order Summary page provides information about the number of Planned and Unplanned Workorders across the Asset Group.

Parameters: The reports in this page are analysable by the following parameters:

- Fiscal Year
- Fiscal Quarter
- Fiscal Period
- Asset Group
- Maintenance Organization Name.

This dashboard page contains three reports – Work Order Summary by Asset Group, Backlog by Asset Group, Work Order Completion by Aging Bucket and Work Order Completion Report.

Work Order Summary by Asset Group Report

The Summary report provides summary level information about the number of Planned and Unplanned workorders across the Asset Group.

It contains the following columns:

- Asset Group
- Planned Work Orders
- Unplanned Work Orders.

Further drill on the Asset Group takes the user to the Work Order Summary by Asset report

Backlog by Asset Group Report

The Summary report provides summary level information on number of Backlogs, Past Due Backlogs, Backlog (%) and Past Due Backlog (%).

It contains the following columns:

- Asset Group

- Backlog

- Backlog%

- Past Due Backlog

- Past Due Backlog %

Further drill on the Asset Group takes user to Backlog by Asset Details report. .

This report can be viewed in tabular format or in graphical format. In graphical format the report is generated as a bar chart where Backlog (%) and Past Due Backlog (%) are plotted as Bar across Asset Group, with the length of the bar denoting the values.

Work Order Completion by Aging Bucket Report

Work Order Completion by Aging Bucket report provides summary level information about the Work Orders Aging across the Asset Groups.

It contains the following columns:

- Asset Group

- 0-5 Days

- 6-10 Days

- 11-15 Days

- 16-20 Days

- >20 Days

Work Order Completion Report

Work Order Completion report provides summary level information on the Work Order Quantity, On-time Completion% across the Asset Group.

It contains the following columns:

- Asset Group

- Work Order Quantity

- Days Late

- On – Time Completion %

Further drill on the Asset Group takes the user to Work Order Completion Report by Asset Details.

This report can be viewed in tabular format or in graphical format (Pareto Chart).

Inventory and Costing Dashboard Page

Inventory and Costing page provides information on the On-Hand Inventory details across Maintenance Organizations.

Parameters: The reports in this page are analysable by the following parameters:

- Month
- Maintenance Organization Name.

This page contains two reports – On-Hand Inventory Details by Organization, On-Hand Inventory Monthly Trend

On-Hand Inventory Details by Organization Report

On-Hand Inventory Details by Organization report provides the Inventory Parts Value and Inventory Parts count across Organizations.

It contains the following columns:

- Organization
- Inventory Parts Value
- Inventory Parts #

This report can be viewed in tabular format or in graphical format. In graphical format the report is generated as bar chart where Inventory Parts Value and Inventory Parts # are plotted as Bar across Organization, with the length of the bar denoting the values.

On-Hand Inventory Monthly Trend Report

On-Hand Inventory Monthly Trend report displays Inventory Parts Value and Inventory Parts Count across Organizations by period.

It contains the following columns:

- Month
- Inventory Parts Value
- Inventory Parts #

This report can be viewed in tabular format or in graphical format. In graphical format the report is generated as line chart where Inventory Parts # is plotted for different time periods.

Quality Analysis Dashboard Page

The Quality Analysis Page provides information on Asset Failures, Preventive Maintenance and Downtime for Assets.

Parameters: The reports in this page are analysable by the following parameters:

- Fiscal Year
- Fiscal Quarter
- Fiscal Period
- Asset Group
- Maintenance Organization Name.

This page contains five reports – Failure Details, Failure Analysis by Asset Description, Down Time By Month, PMs Completion, Down Time By Asset Group.

Failure Details Report

This report displays the Current and Prior - Year to Date failure costs for the asset group.

It contains the following columns:

- Asset Group
- Present YTD Failure Cost
- Prior YTD Failure Cost
- Variance

This report can be viewed in tabular format or in graphical format. In graphical format the report is generated as bar chart where Present YTD Failure Cost and Prior YTD Failure Cost are plotted as Bar across Asset Group, with the length of the bar denoting the values.

Failure Analysis by Asset Description Report

This report provides information on Mean time to repair and Mean Time between Failures for the Assets.

It contains the following columns:

- Asset Description
- Asset Number
- Failure Count
- Mean Time Between Failure(Days)
- Mean Time to Repair(Days)

This report is also generated as a pie chart where Failure Count is distributed across various Assets.

Down Time by Month Report

Down Time by Month report provides Monthly total down time (in hours) for the selected time period in Graphical Format.

PMs Completion Report

PMs Completion report provides information about the Planned Workorder Completions over Time Period and Workorder Statuses in Graphical Format.

Down Time By Asset Group Report

This report provides the top 5 Monthly break ups of downtime by Asset group.

It contains the following columns:

- Asset Group
- Downtime

Resource Analysis Dashboard Page

The Resource Analysis page provides information about the Resources being used and their utilization and efficiency.

Parameters: The reports in this page are analysable by the following parameters:

- Fiscal Year
- Fiscal Quarter
- Fiscal Period
- Production Organization Name
- Department Name
- Resource Name

This page contains one report – Resource Efficiency.

Resource Efficiency Report

The Resource Efficiency report contains the following columns:

- Resource Name
- Resource Utilization
- Resource Efficiency

Asset Genealogy Dashboard Page

Asset Genealogy page provides the user with information on the Asset, the date on which the asset was acquired, the Asset Cost and the Maintenance Cost. In addition it also provides the Prevention cost and Unplanned Maintenance Cost of an asset.

Parameters: The reports in this page are analysable by the following parameters:

- Fiscal Year
- Fiscal Quarter
- Fiscal Period
- Asset Group
- Asset Number
- Maintenance Organization Name.

This page contains three reports – Asset Genealogy Report, Maintenance Cost by Asset Description, and Prevention & Unplanned Maintenance Cost by Asset Description.

Asset Genealogy Report

This Report provides user with description of an Asset, asset number and acquisition date of an Asset, Cost of an asset, along with Maintenance cost, Prevention Cost and Unplanned Maintenance Cost of an asset.

It contains the following columns:

- Asset Description

- Asset Number

- Acquired Date

- Installed Date

- Expiry Date

- #Years Since Installation

- Asset Cost

- Maintenance Cost

- Prevention Cost

- Unplanned Maintenance Cost

Maintenance Cost by Asset Description report

Maintenance Cost by Asset Description report provides information about the Maintenance Cost distribution over different Assets in Graphical Format where Maintenance Costs are plotted as Bar across Asset Description, with the length of the bar denoting the values.

Prevention & Unplanned Maintenance Cost by Asset Description Report

Prevention & Unplanned Maintenance Cost by Asset Description report provides information about the Prevention and Unplanned Maintenance Cost distribution over different Assets in Graphical Format where Prevention Cost and Unplanned Maintenance Cost are plotted as Bar across Asset Description, with the length of the bar denoting the values.