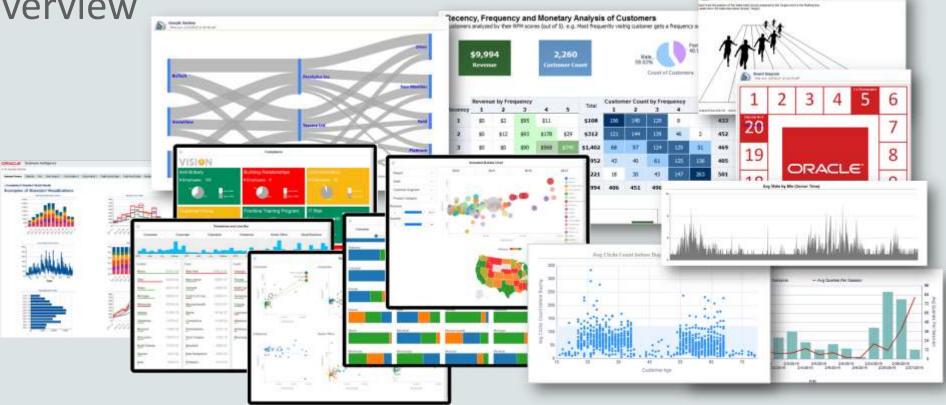
OBIEE SampleApp V506

What's New Overview

June 2015





SampleApp V506 Areas of New Content on the Image

12.1.0.2 + DBIM

1. DBIM Installed

2. DB direct Json Sourcing

3. 12c DB Count Distinct Estimate

Impala + Big Data SQL

4. OBIEE + BDSQL

5. OBIEE + Impala

6. ORAAH

OBIEE 11.1.1.9

7. Sessions tracking in UT

8. New Exalytics Agg Features

New OOB Vizualisations

10. New Custom Style feature 11. Saved Calculations in Web-cat 12. Hierarchical Session Variables

D. Other items

13. More configured Vizs

14. APEX Contextual Comments 15. DB Procedure Dashboard interact

16. New BIMAD Apps



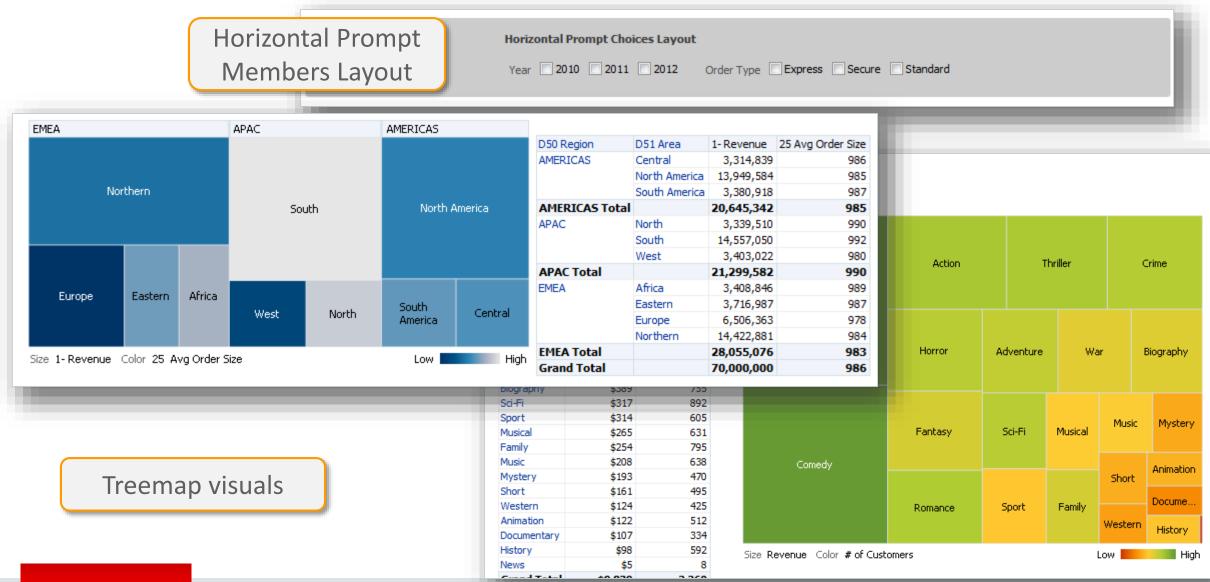
SampleApp V506 Installed Software

- Oracle Enterprise Linux 6.5 x64
- **OBIEE** 11.1.1.9 GA two distinct OBIEE instances, Essbase 11.1.2.4, updated BIMAD
- Oracle MapViewer 11.1.1.9.1
- Oracle BICS Data Sync v1
- Oracle Database 12c IMDB 12.1.0.2, PDB Install, AWM 12.1.0.2a,
 APEX 4.2.6 & ORDS 2.0.1, ODM, Oracle Spatial and Graph
- **ORE** 1.4.1 & R-3.1.1
- **ENDECA** 3.1, Server 7.6.1, Studio 3.1, Provisioning Services
- Cloudera CDH 5.1.2, Oracle BigData SQL, Oracle BigData Connectors
- Plug and Play Companions: EPM 11.1.2.3, BIApps Demos
- Utils: Start scripts, MapBuilder, SQLDev 4.1

Oracle BIEE SampleApp V506

Oracle Enterprise Linux 6.5 x64 Oracle Business Intelligence EE 11.1.1.9.1 Mobile Application Designer Oracle MapViewer Version 11.1.1.9.1 MVDemo Samples App Essbase Server 11.1.2.4, Essbase Studio,FR Sample Application Content BICS Data Sync version 1 Oracle Database 12c 12.1.0.2.0 (imdb) R 3.1.1 ORE 1.4.1 Oracle APEX 4.2.6, ORDS (formally listener)2.0.10 SQL Developer 4.1.0 AWM Workspace Manager 12.1.0.2a Oracle Data Mining Oracle Spatial and Graph BigData CDH 5.1.2 with Cloudera Manager Oracle BigData SQL Oracle BigData Connectors Oracle Endeca Information Discovery 3.1 Endeca Server 7.6.1, Studio 3.1 Provisioning Services Standalone EPM 11.1.2.3 Suite (plug-in) Blapps 11.1.1.7 (plug-in)

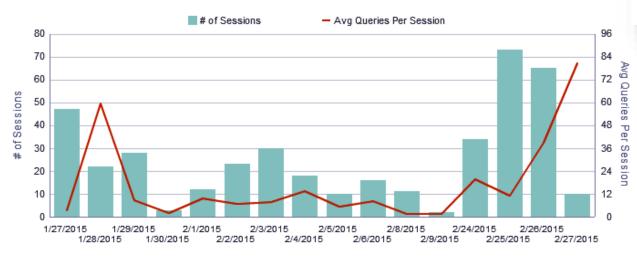
SampleApp V506: New 11.1.1.9 Visuals

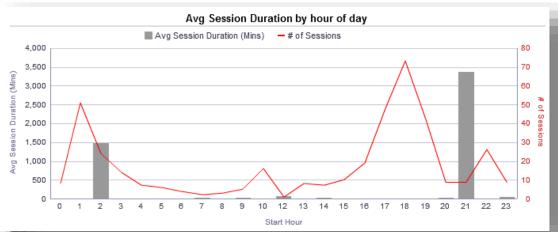


SampleApp V506: 11.1.1.9 Sessions Tracking



	Sun	Mon	Tue	Wed	Thu	Fri	Grand Total
# of Sessions	23	25	111	112	103	29	401
# of Queries	135	162	1,068	2,353	2,805	948	7,471
Total Num dB Queries	95	139	1,153	2,872	3,785	7,896	15,940
Avg Queries Per Session	5.9	6.5	9.6	21.0	27.2	32.7	18.6
Avg dB Queries per Session	4.1	5.6	10.4	25.6	36.7	272.3	39.8





UT tracking Sessions ID details, allows deep Analytics on users sessions

Avg Visits by Min (Server Time)



SampleApp V506 : New Exalytics Features

Aggregate Persistence Wizard handling Count-Distinct aggregations in Aggregate Tables

Orig Division Name	Source Fact Table	2010 / 01
East North Central Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,754
East South Central Division	FACT_AGG_OR_CD_05 - 3.7m Rows	2,478
Middle Atlantic Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,679
Mountain Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,212
New England Division	FACT_AGG_OR_CD_05 - 3.7m Rows	2,791
Pacific Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,066
South Atlantic Division	FACT_AGG_OR_CD_05 - 3.7m Rows	4,111
West North Central Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,165
West South Central Division	FACT_AGG_OR_CD_05 - 3.7m Rows	3,592

FACT_AGG_OR_CD_05 table definition

- Route detail (Dimension)
- Month (Dimension)
- Orig Airport (Dimension)
- Dest Airport (Dimension)
- Aircraft number (Count Distinct Metric) Air

FACT_AGG_OR_RS_04 table definition

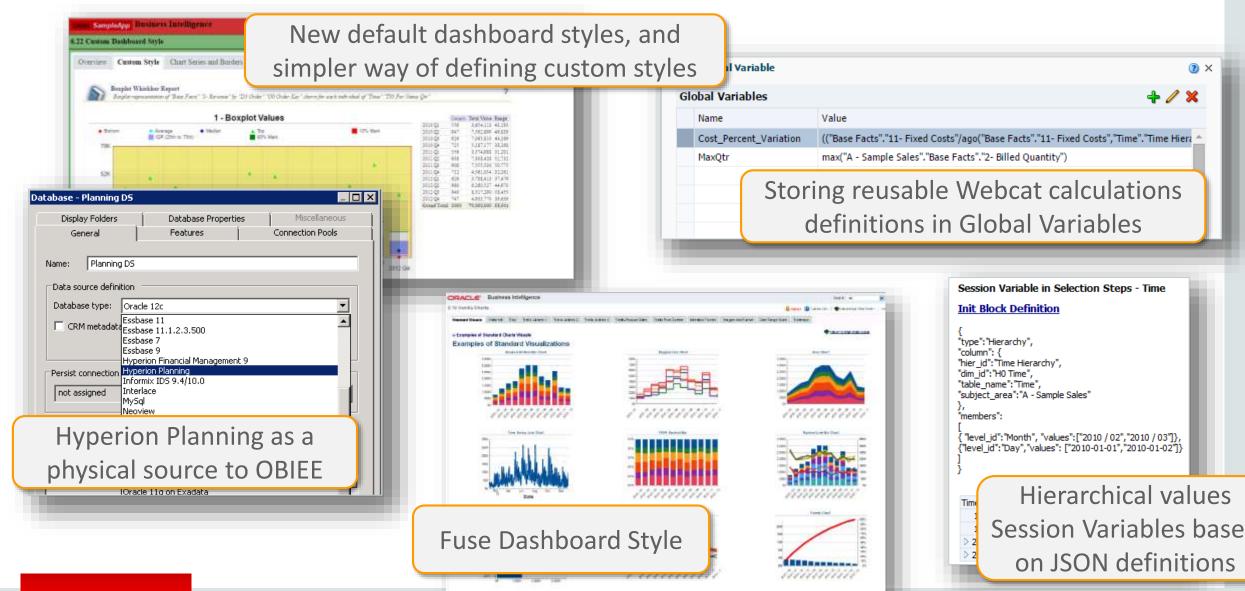
- Month (Dimension)
- Product Desc (Ragged skipped dimension grain)
- Product Type (Ragged skipped dimension parent level)
- Product LOB (Ragged skipped dimension parent level)
- Product Brand (Ragged skipped dimension parent level)
- Revenue (Metric)

Ragged Skipped- Aggregate Source									
		1- Revenue							
		■ Total Time							
H2 Products Ragged SkipLevels	Source Fact Table		▷ 2010	▷ 2011	▷ 2012				
✓ Product (Rgd Sk Lvl) Total	FACT_AGG_OR_RS_04 - 6k Rows	15,690,331,994	5,239,544,257	5,225,582,673	5,225,205,064				
A - Brand 1	FACT_AGG_OR_RS_04 - 6k Rows	736,711,089	257,378,801	244,346,037	234,986,251				
▲ A - Brand 2	FACT_AGG_OR_RS_04 - 6k Rows	683,532,940	238,495,524	224,605,731	220,431,686				
C - Type 3	FACT_AGG_OR_RS_04 - 6k Rows	225,345,266	76,845,376	73,572,513	74,927,378				
C - Type 4	FACT_AGG_OR_RS_04 - 6k Rows	340,284,835	119,683,887	111,634,335	108,966,613				
B - LOB 3	FACT_AGG_OR_RS_04 - 6k Rows	117,902,839	41,966,261	39,398,883	36,537,695				
A - Brand 3	FACT_AGG_OR_RS_04 - 6k Rows	687,543,769	223,021,827	219,171,570	245,350,373				
A - Brand 4	FACT_AGG_OR_RS_04 - 6k Rows	91,509,662	28,042,820	31,409,121	32,057,722				
A - Brand 5	FACT_AGG_OR_RS_04 - 6k Rows	5,488,331,459	1,819,578,659	1,842,882,628	1,825,870,172				
A - Brand 6	FACT_AGG_OR_RS_04 - 6k Rows	4,319,179,644	1,451,839,944	1,432,058,200	1,435,281,500				
A - Brand 7	FACT_AGG_OR_RS_04 - 6k Rows	3,683,523,430	1,221,186,683	1,231,109,387	1,231,227,360				

Aggregate Persistence Wizard handling Ragged Skipped Level Hierarchies in Aggregate Tables



SampleApp V506: Other 11.1.1.9 Features



SampleApp V506: 12c 12.1.0.2 Database features

Approximate Count Distinct

Database feature : Approximate Count Distinct, highly performing

of Pilots (Approximate)

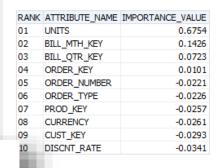
Carrier	2010 Q1	2010 Q2	2010 Q3	2010 Q4
American International	65,332	60,723	67,211	63,819
American Sky	2,521	2,585	2,795	2,958
Atlantic International	31,897	30,633	36,462	35,640
Eastern Airlines	10,258	10,680	11,125	10,409
Great West Airlines	22,139	21,263	27,467	26,454
High Sky Way	18,605	19,188	21,831	21,180
Mid American Airlines	12,929	12,042	13,275	13,058
Midwest International	36,785	36,143	39,558	38,770
Mountain West Air	25,392	24,976	25,386	26,930
NorthEast Express	28,584	28,727	31,305	28,781
Pacific Coast Airlines	23,275	21,748	24,198	24,548
Rainbow Airlines	35,483	35,305	36,128	34,535
Southeast Airlines	27,525	26,518	27,547	28,684
Southern Airway	21,695	17,671	17,597	18,034
SunBelt Airways	48,236	43,750	47,751	50,716
SunFlower Airlines	39,773	38,060	40,677	40,879
West Coast airlines	43,776	42,867	48,068	47,506
horizon airlines	32,247	28,853	30,376	31,736

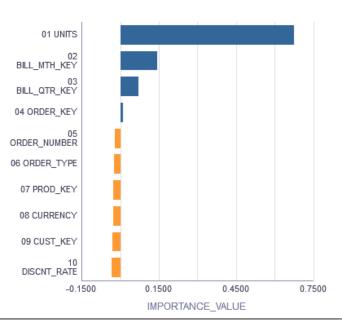
Approximate to Actual Count Distinct

Appoximate to Actual

Carrier	2010 Q1	2010 Q2	2010 Q3	2010 Q4	Grand Total
American International	100.4%	98.2%	99.7%	97.8%	99.0%
American Sky	98.8%	103.2%	99.3%	100.3%	100.4%
Atlantic International	99.4%	98.1%	102.2%	99.1%	99.7%
Eastern Airlines	100.3%	100.9%	103.4%	103.1%	101.9%
Great West Airlines	100.0%	99.1%	98.5%	100.7%	99.6%
High Sky Way	98.0%	99.7%	98.4%	96.8%	98.3%
Mid American Airlines	101.1%	100.1%	100.0%	100.1%	100.3%
Midwest International	97.9%	98.5%	98.0%	100.2%	98.7%
Mountain West Air	98.4%	99.2%	101.1%	99.3%	99.5%
NorthEast Express	100.7%	99.8%	103.1%	98.1%	100.4%
Pacific Coast Airlines	99.3%	97.9%	100.7%	100.5%	99.6%
Rainbow Airlines	97.1%	101.4%	98.2%	98.7%	98.8%
Southeast Airlines	99.4%	101.1%	99.6%	98.1%	99.6%
Southern Airway	101.9%	98.0%	100.5%	99.9%	100.1%
SunBelt Airways	100.2%	96.8%	99.3%	100.6%	99.2%
SunFlower Airlines	99.3%	98.9%	100.2%	98.0%	99.1%
West Coast airlines	98.6%	99.1%	100.0%	100.5%	99.5%
horizon airlines	102.2%	99.3%	97.6%	99.2%	99.6%
Grand Total	99.6%	99.4%	100.0%	99.5%	99.6%

Attribute Importance - for column: REVENUE Inferred from random sample data





ODM Attribute Importance Analysis, directly from Dashboard



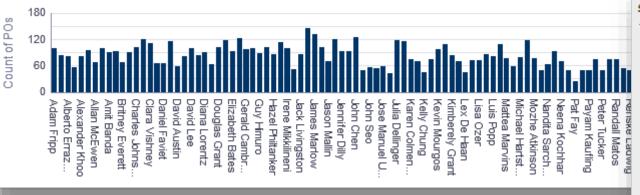
SampleApp V506: 12c 12.1.0.2 Database features

Purchase Orders JSON Analysis

No of POs **9044**

Revenue 961,821 Total Quantity 44,960

COUNTRY	PO COUNT	QUANTITY	UNITPRICE	REVENUE
Canada	102	483	21.45	10,431
Germany	113	594	21.41	12,866
United Kingdom	3011	14,912	21.40	319,440
United States of America	5735	28,561	21.39	610,424
No Address	83	410	21.01	8,660
Grand Total	9044	44,960	21.39	961,821



Database directly parsing JSON files as datasource: upload your multiples JSON files and view the results on dashboard immediately

```
Sample of JSON Object read in this example
{ "PONumber"
                         : 1600,
  "Reference"
                         : "ABULL-20140421",
  "Requestor"
                         : "Alexis Bull",
  "User"
  "CostCenter"
                         : "A50",
  "ShippingInstructions" : { "name"
                                     : "Alexis Bull",
                     "street" : "200 Sporting Green",
                                : "South San Francisco",
                              : "CA",
                      "country" : "United States of America" },
                               "Office", "number": "909-555-7307" },
                      "type": "Mobile", "number": "415-555-1234" } ] },
  "Special Instructions" : null,
  "AllowPartialShipment" : false,
  "LineItems" : [ { "ItemNumber" : 1,
                               : { "Description" : "One Magic Christmas",
                 "Part"
                                   "UnitPrice"
                                                 : 19.95,
                                   "UPCCode"
                                                 : 13131092899 },
                              : 9.0 },
                 "Quantity"
                 "Part"
                               : { "Description" : "Lethal Weapon",
                                   "UnitPrice"
                                                 : 19.95,
                                   "UPCCode"
                                                 : 85391628927 1.
                 "Quantity"
                              : 5.0 } ] }
```

SampleApp V506: New BIMAD Apps and new BIMAD Plugg-ins



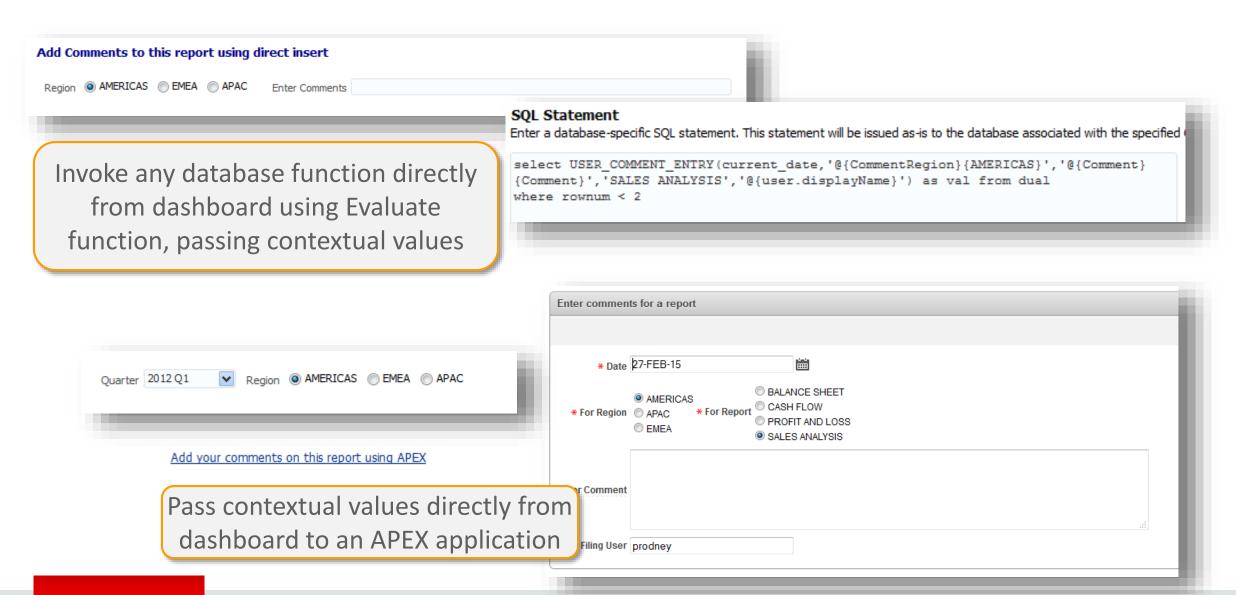








SampleApp V506: Integration Examples



SampleApp V506: More Custom Visuals 6 20 Google Sankey Time num: 2/27/2015 6:45:46 AM **ORACLE** BizTech Track Race Time run: 3/6/2015 10:17:27 AM Score small deals in FY15 (less than \$100k) Tescare Ltd Each track the position of the Sales Rep's Actual compared to the Target which is the finishing line. Labels show the Sales Rep Name (Actual, Target) FunPod Genmind Corp

Additional Custom visual examples



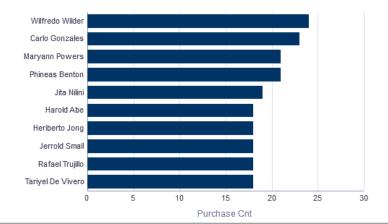
Michele Lombardo (6,12)Paul Atkinson (2,15)

SampleApp V506: OBIEE + IMPALA or HIVE

Top Customers with Purchases

Purchase data from HDFS joined with Customer data in Oracle tables

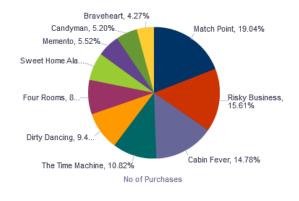
Customer Name	Customer Country	Income Level	Gender	Marital Status	Purchase Cnt
Wilfredo Wilder	United States	B: 30,000 - 49,999	Male	S	24
Carlo Gonzales	United States	B: 30,000 - 49,999	Male	S	23
Maryann Powers	United States	A: Below 30,000	Female	M	21
Phineas Benton	Hungary	C: 50,000 - 69,999	Male	M	21
Jita Nilini	India	A: Below 30,000	Male	S	19
Harold Abe	Japan	C: 50,000 - 69,999	Male	S	18
Heriberto Jong	United Kingdom	B: 30,000 - 49,999	Male	S	18
Jerrold Small	United States	A: Below 30,000	Male	S	18
Rafael Trujillo	United States	E: 90,000 - 109,999	Male	S	18
Tariyel De Vivero	Mexico	B: 30,000 - 49,999	Male	S	18



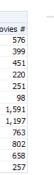
Top Movies Purchased

Genereted by joining fact data from HDFS with movie attributes in Oracle relational tables

Movie Title	Release Year	No of Purchases△▼	Revenue
Match Point	2005	183	364
Risky Business	1983	150	299
Cabin Fever	2002	142	283
The Time Machine	2002	104	207
Dirty Dancing	1987	91	181
Four Rooms	1995	81	161
Sweet Home Alabama	2002	66	131
Memento	2000	53	158
Candyman	1992	50	99
Braveheart	1995	41	122



OBIEE directly sourcing from Cloudera Impala



54

62

39

34

15

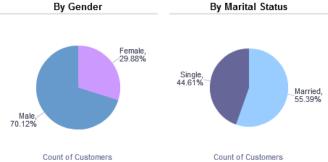
124

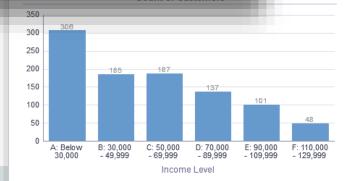
82

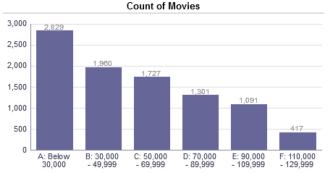
59

55

42







Income Level



SampleApp V506 : OBIEE + BIG DATA SQL

Recency, Frequency and Monetary Analysis of Customers

Customers analyzed by their RFM scores (out of 5). e.g. Most frequently visiting customer gets a frequency score of 5; Most recent gets recency score of 5 and so on

Customer Count by Frequer

\$9,994 Revenue

Revenue by Frequency



\$319 \$2,083 \$7,577 \$9,994



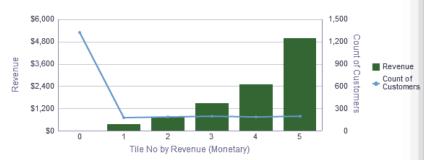
455

	-		
			Abe
			Abg
			Abł
ncy		Total	Ade
4	5	iotai	Ade
8		433	Adi
_		100	Adr
16	2	452	Ailis
		C	lick
29	51	46 C	IICK
		Pa	tter

Customer Name	Gender	Recency	Freq△▼	Monetary	Revenue	
Aanand Martinez	Male	2	5	4	\$16	,
Abdu Duke	Male	4	5	5	\$18	
Abdu Talenti	Male	1	5	4	\$13	
Abel Mathews	Male	2	5	5	\$25	
Abgar Saligrama	Male	1	5	5	\$29	
Abhinabhas Bragaghio	Male	3	5	4	\$10	
Adelisa De Zeeuw	Female	2	5	3	\$8	
Adelynn Meadows	Female	3	5	3	\$6	
Adityasena Hynninen	Male	1	5	5	\$26	
Adrien Gobinet	Male	1	5	4	\$16	
Ailis Harbir	Female	4	5	3	\$9	

OBIEE leveraging Big Data SQL to optimize queries to Big Data datasources

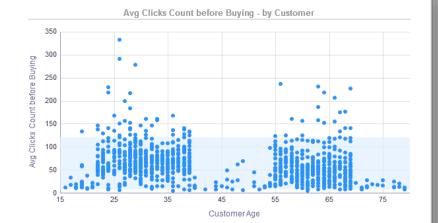
1 \$0 \$2 \$95 \$11 \$108 156 140 129 8 2 \$0 \$12 \$93 \$178 \$29 \$312 121 144 139 46 2 3 \$0 \$0 \$90 \$568 \$745 \$1,402 68 97 124 129 51 4 \$0 \$0 \$11 \$624 \$2,317 \$2,952 43 40 61 125 136 5 \$0 \$2 \$31 \$702 \$4,486 \$5,221 18 30 43 147 263



Click Pattern to Buy

Pattern detection SQL to identify clicks leading upto one or more purchases

CUST ID, F CLICK TSTAMP, CLICK COUNT, BUY TSTAMP, BUY COUNT, TRUNC (NO_OF_DAYS_FC, 4) AS DAYS_SINCE_FCLICK, LOGIN_FLAG, LOGIN_COUNT FROM MOVIEDEMO.MOVIEAPP_CLICKS_BDSQL_V MATCH RECOGNIZE (PARTITION BY CUST ID ORDER BY SESS DATE FIRST (CLICK.ACT LOGIN) AS LOGIN FLAG, FIRST (CLICK.SESS DATE) AS F CLICK TSTAMP, COUNT (CLICK.ACT LOGIN) AS LOGIN COUNT, COUNT (CLICK.*) AS CLICK_COUNT, FIRST (BUY.SESS_DATE) AS BUY_TSTAMP, COUNT (BUY.*) AS BUY COUNT, FIRST (BUY.SESS DATE) - FIRST (CLICK.SESS DATE) AS NO OF DAYS FC ONE ROW PER MATCH PATTERN (CLICK+ BUY+) DEFINE CLICK AS (ACT PURCHASE IS NULL) BUY AS (ACT PURCHASE IS NOT NULL))



Click patterns leading upto one or more purchases

Customer Name Elise Cole

First Click (tstamp)	Days before buy	Clicks Count	Buy Click (tstamp)	Buys Count	Login Flag	Login Count
7/22/2012 7:31:58 AM	6.3	28	7/28/2012 3:53:52 PM	3	Y	7
8/5/2012 3:05:21 AM	0.8	32	8/5/2012 9:17:18 PM	1	Υ	8
8/5/2012 10:21:04 PM	19.9	29	8/25/2012 9:00:35 PM	1	Y	8
8/25/2012 9:28:40 PM	13.4	30	9/8/2012 7:25:58 AM	2	Y	9
9/8/2012 10:41:20 AM	0.5	61	9/8/2012 9:34:27 PM	1	Y	19
9/8/2012 10:17:50 PM	6.1	153	9/15/2012 12:11:15 AM	2	Y	45
9/15/2012 1:51:16 AM	0.0	2	9/15/2012 1:55:45 AM	1		0

Selected Customer Details (select customer from above graph)

Customer Name Elise Cole

nt	Customer ID	Customer Name	Gender	Marital Status	Income Level	Age	Login Count	Buys Count	Avg Clicks to Buy
7	1272856	Elise Cole	Female	M	B: 30,000 - 49,999	34	96	11	48
_									



ORACLE®