



New Features in Oracle Analytics Cloud 19.1.1

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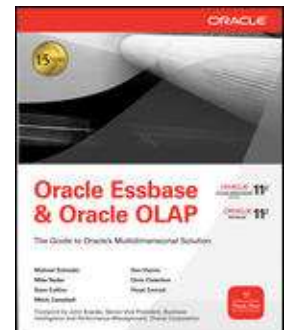
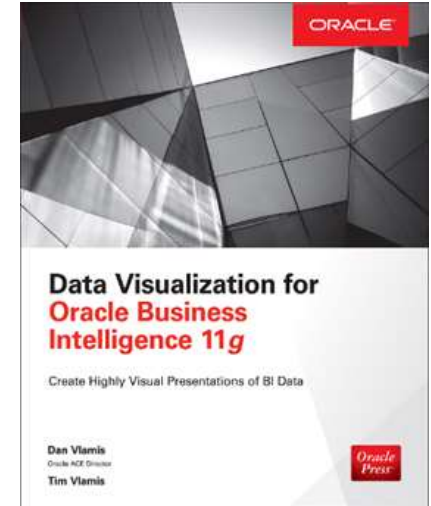
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VlamiS Software Solutions

- VlamiS Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Data Mining and Predictive Analytics
 - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- www.vlamiS.com (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Reseller
- Oracle Gold Partner





OBIEE, BICS, DVD, OAC New Features Webcasts

- 11.1.1.3 (August 2010)
 - Huge release with major new functionality
- 11.1.1.5 (May 2011)
 - BIWA TechCast May 25: [Oracle BI 11.1.1.5 - New Features](#)
- 11.1.1.6 (February 2012)
 - BIWA TechCast Feb 29: [Oracle BI 11.1.1.6 New Features](#)
 - New features mostly for Exalytics
- 11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
 - BIWA TechCast Aug 1: [Oracle BI 11.1.1.6.2 BP1 New Features](#)
 - Trellis Views
- 11.1.1.7 (April 2013)
 - BIWA TechCast Apr 5 [Oracle BI 11.1.1.7 New Features](#)
 - Freeze headers/scroll bars for tables and pivot tables
 - View
 - content in SmartView in Excel and enhanced export
 - New Oracle R Enterprise (ORE) integration and capabilities
- 11.1.1.9 (May 2015)
 - BIWA TechCast Jun 4, 2015 [Oracle BI 11.1.1.9 New Features](#)
 - Search in Subject Areas pane
 - Global variables and Save Column As choice in Criteria tab

[Introduction to OAC Running on ADW](#) Features Webcast Mar 6, 2019 itures

- 12.2.1 (October 2015)
 - BIWA TechCast Nov 19, 2015 [Oracle BI 12.2.1 New Features](#)
- BICS March 2016 (March 2016)
 - Webcast Apr 5, 2016 BICS [BICS March 2016 New Features](#)
- 12.2.1.1 (June 2016)
 - BIWA TechCast Jul 19, 2016 [Oracle BI 12.2.1.1 New Features](#)
- 12.2.1.2 and DVD 2.0 (October 2016)
 - Webcast Nov 22, 2016 [DVD 12.2.2 and OBIEE 12.2.1.2. New Features](#)
- DVD 3.0 (June 2017)
- OAC 4 (December 2017)
 - Webcast Dec 19, 2017 [OAC 4 New Features](#)
 - Webcast Apr 4, 2018 [Migration from OBIEE to OAC Webinar](#)
- 12.2.1.4 (June 2018)
 - Webcast Jun 19, 2018 [Oracle BI 12.2.1.4 New Features](#)
- OAC 18.3.3 (September 2018)
 - Webcast Sep 27, 2018 [OAC 18.3.3 New Features](#)
- OAC 19.1.1 (January 2019)
 - Webcast Feb 27, 2019 [OAC 19.1.1 New Features](#)

All listed on website at <http://www.vlami.com/obiwebinars/>



Use Questions or Chat or Questions to communicate

Oracle Business Intelligence X

www.vlamiis.com/obiwebinars/

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Presentations 2003
Presentations 2002
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Oracle Business Intelligence Webinars

2018

- OAC 4
 - [Webcast January 16: Registration now open!](#)
 - Data limit truncation warnings
 - Narrate enhancements for groups
 - Data flow enhancements
 - Sequences for Data flows
 - Data flow scheduling
 - Renaming steps
 - Create Essbase cube step
 - BI Publisher consuming XSAs
 - Essbase new features
 - Admin / Console new features
 - Content embedding
 - Data replication
 - Email deliverables
 - Map Viewer console
 - Import / export TCM models

Oracle Business Intelligence Webinars

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Audience view 100%

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Stopped No one sees your screen

Show **Stop Showing Screen** **Give Keyboard & Mouse** **Change Presenter**

Start Recording 5.9 GB remaining [Settings](#)

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☒ Show Answered Questions

X	Question	Asker

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Chat

Me (to All - Entire Audience):
12:53 PM: Test chat here

All - Entire Audience [Send](#)

Seeing is Believing
Webinar ID: 641-563-843
GoToWebinar

OAC 19.1.1 Selected New Features Overview

A. Admin

1. Choose Objects to Migrate Between OAC Instances
2. Console Allows Config Changes & Restart Services
3. Catalog Manager
4. DSS/Data Prep Public Rest APIs
5. Quick Start Templates – Easier to Create Instances

B. Data Sources & Data Viz

6. Easier to Create ADW and ATP DB Connections
7. Suppress row on/off, show duplicates

C. BI Publisher

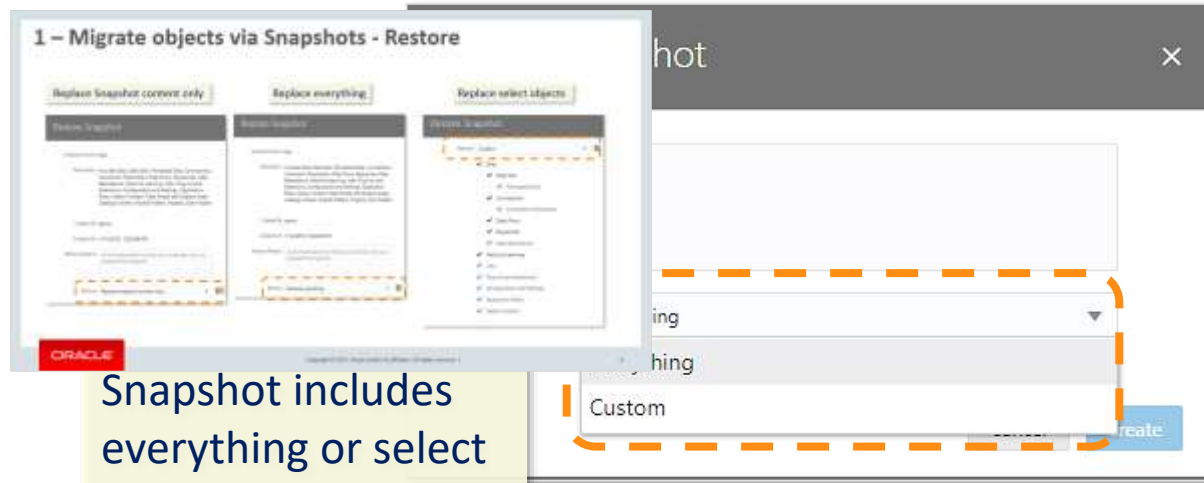
8. Bar File inclusion
9. Essbase POV Parameter Support

D. Essbase

12. Oracle Autonomous Database support
13. Multi-cell Drill Through
14. Calc Tuple Support
15. Outline Support for Alias Tables in Web UI
16. Smart View support for Ancestor On Top
17. Auto Generation of Aggregate Views
18. Named Queries and Layouts
19. Other New Features
20. New Gallery Templates

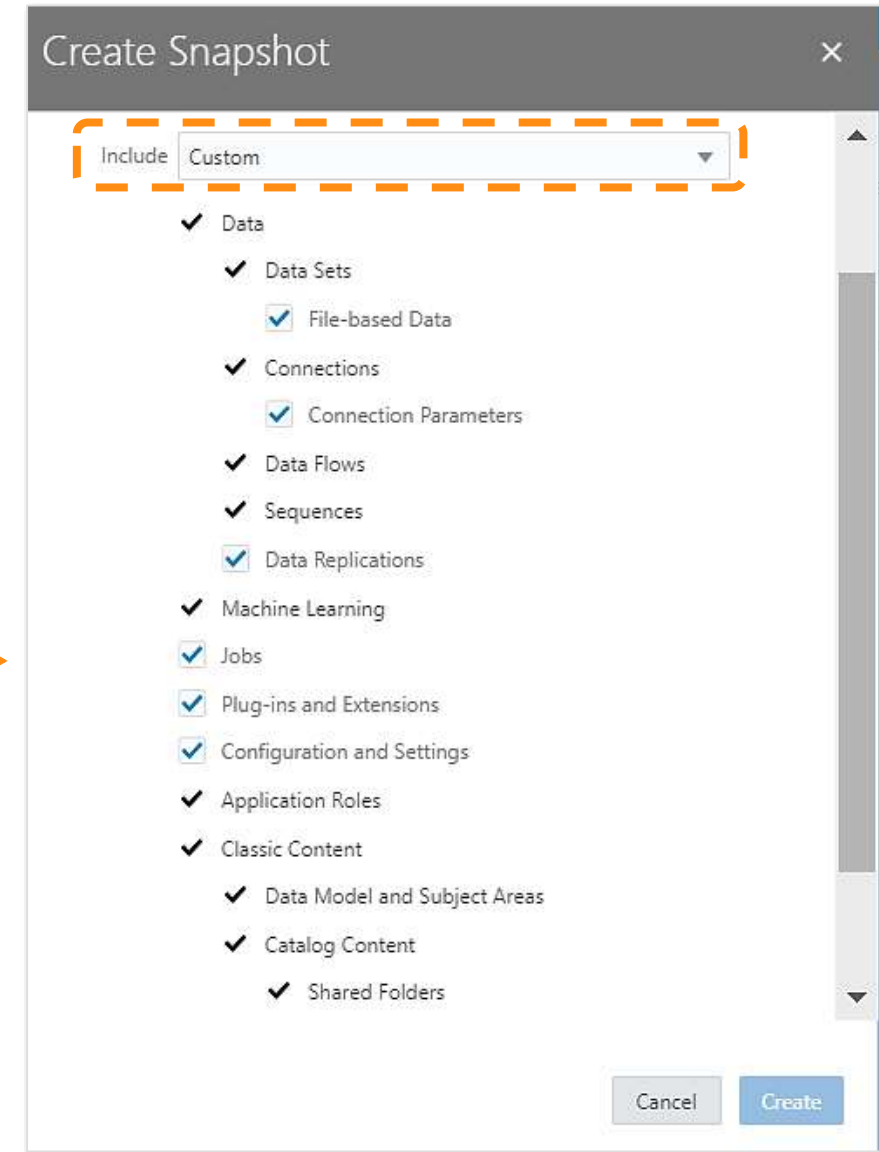
To be demoed in OAC 19.1.1 What's New Webcast

1 – Migrate objects between OAC instances-Create Snapshot



Snapshot includes everything or select custom content

Custom select types of object to include in Snapshot



1 – Migrate objects via Snapshots - Restore

Replace Snapshot content only

Restore Snapshot

Snapshot Name test

Description Includes Data, Data Sets, File-based Data, Connections, Connection Parameters, Data Flows, Sequences, Data Replications, Machine Learning, Jobs, Plug-ins and Extensions, Configuration and Settings, Application Roles, Classic Content, Data Model and Subject Areas, Catalog Content, Shared Folders, Projects, User Folders

Created By admin

Created On 1/14/2019, 12:02:49 PM

Restore Reason *A short description to help you remember why you restored the snapshot.*

Restore Replace snapshot content only

Replace everything

Restore Snapshot

Snapshot Name test

Description Includes Data, Data Sets, File-based Data, Connections, Connection Parameters, Data Flows, Sequences, Data Replications, Machine Learning, Jobs, Plug-ins and Extensions, Configuration and Settings, Application Roles, Classic Content, Data Model and Subject Areas, Catalog Content, Shared Folders, Projects, User Folders

Created By admin

Created On 1/14/2019, 12:02:49 PM

Restore Reason *A short description to help you remember why you restored the snapshot.*

Restore Replace everything

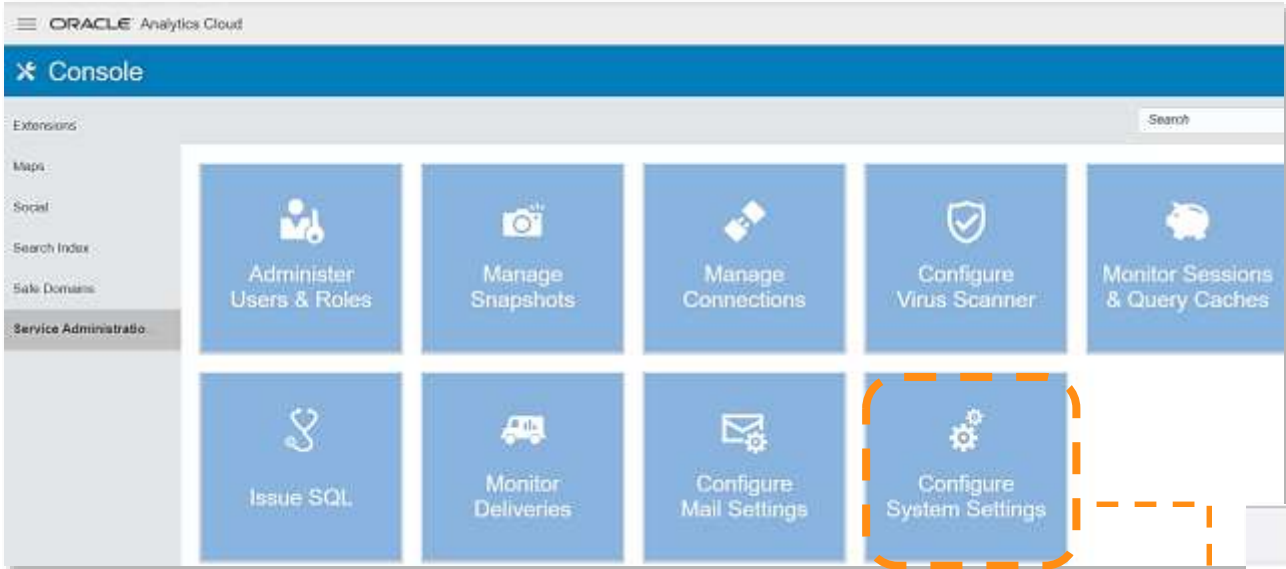
Replace select objects

Restore Snapshot

Restore Custom

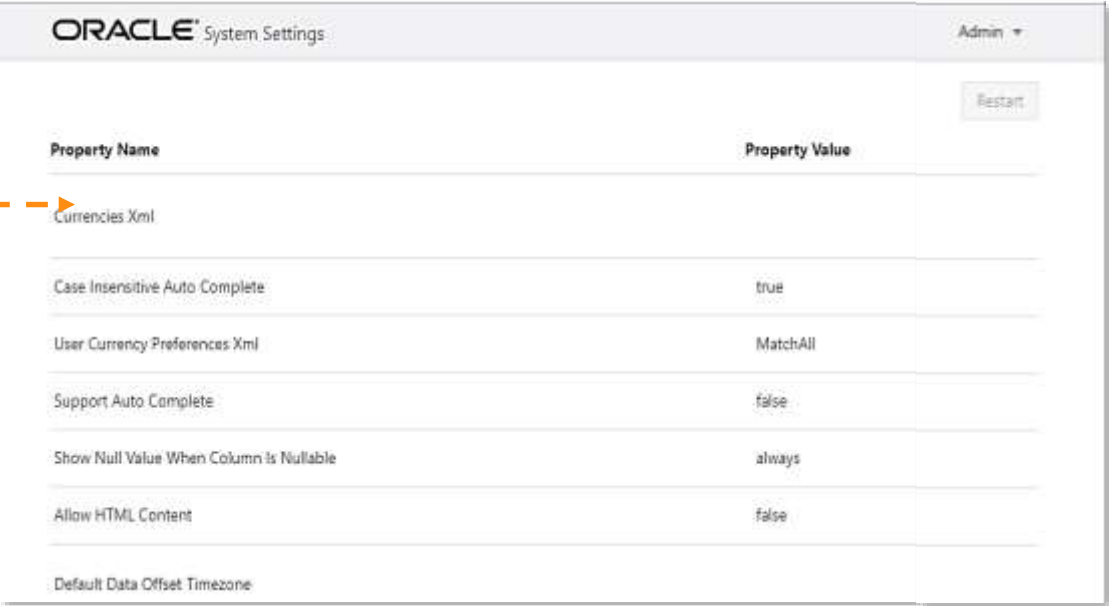
- ☒ Data
 - ☒ Data Sets
 - ☒ File-based Data
 - ☒ Connections
 - ☒ Connection Parameters
 - ☒ Data Flows
 - ☒ Sequences
 - ☒ Data Replications
- ☒ Machine Learning
- ☒ Jobs
- ☒ Plug-ins and Extensions
- ☒ Configuration and Settings
- ☒ Application Roles
- ☒ Classic Content

2 – Configure System Settings

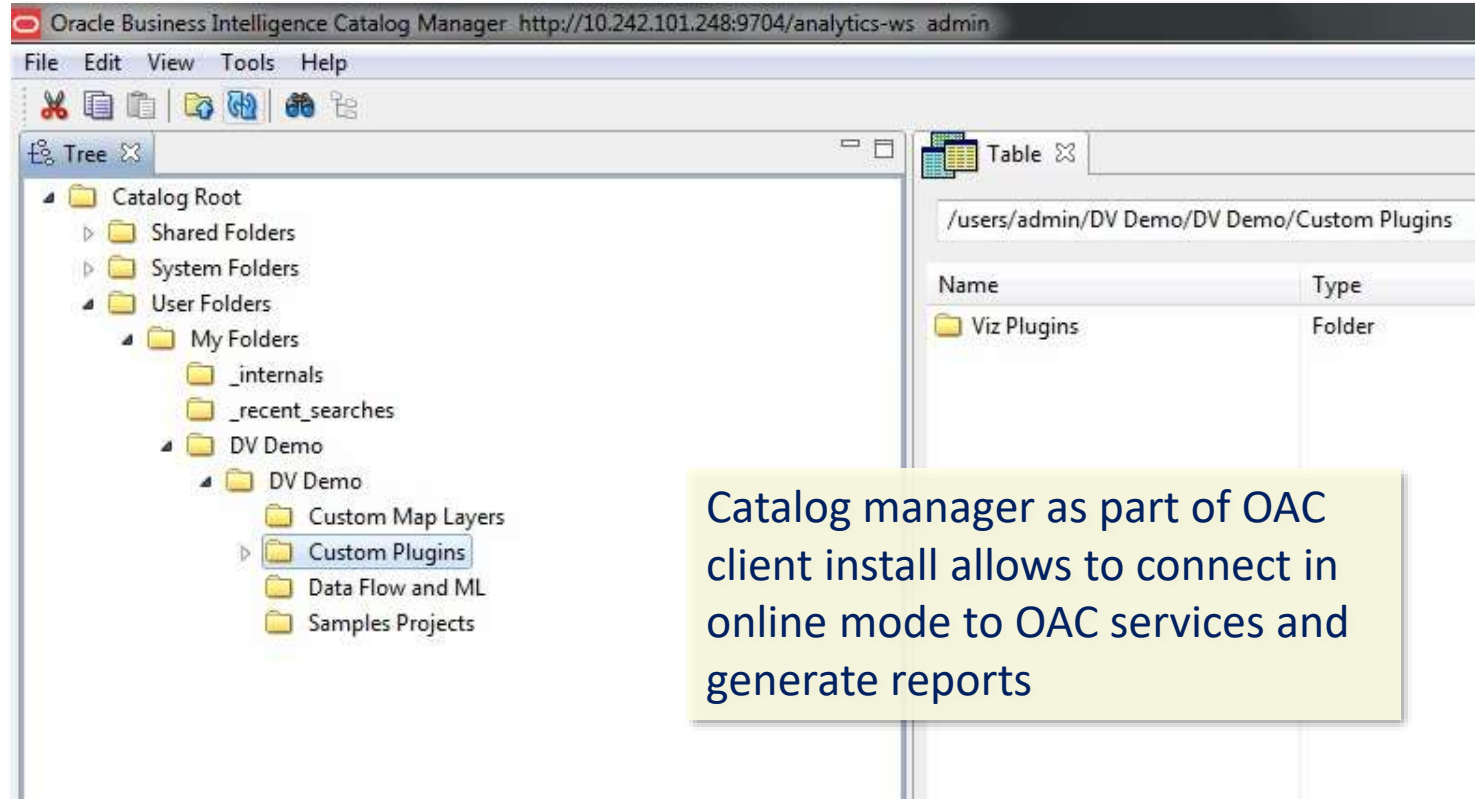


Launch System Settings from Console

Edit parameters values for your system and restart services

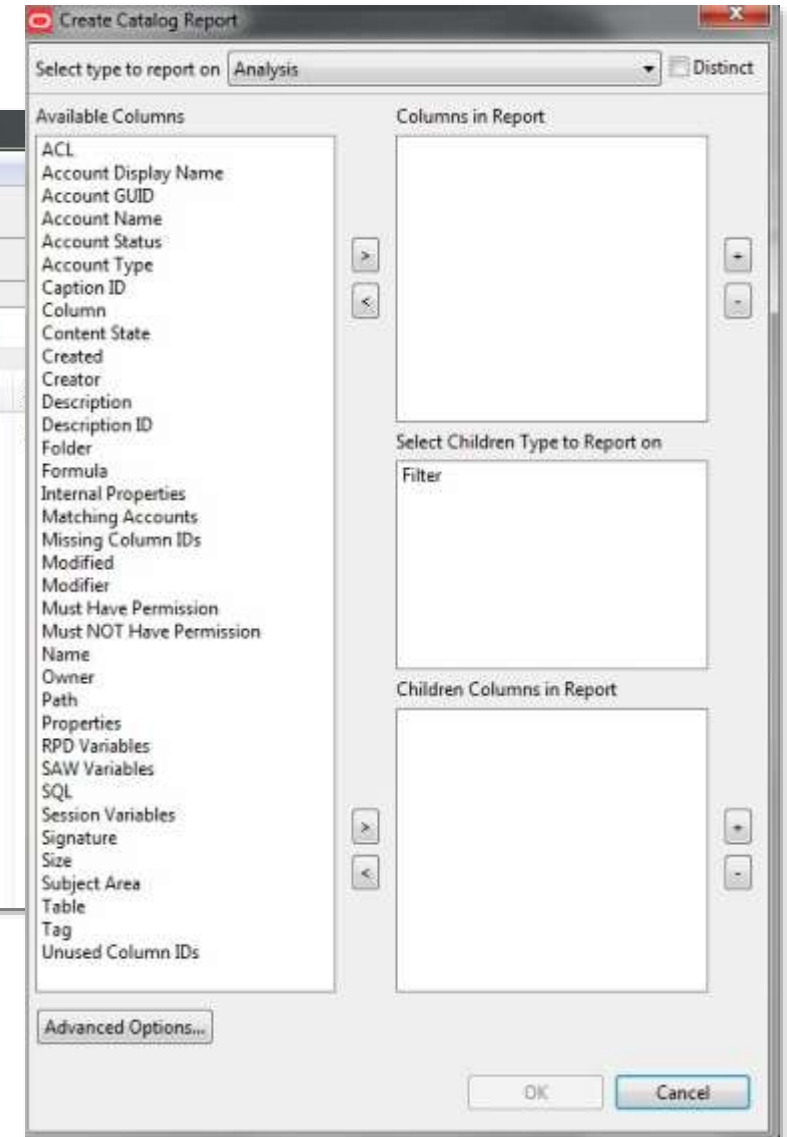


3 – Catalog Manager Connecting to OAC



Catalog manager as part of OAC client install allows to connect in online mode to OAC services and generate reports

The URL should be of the following format for actual OCI pods:
`https://<hostname>:443/analytics-ws`



4 – DSS/Data Prep Public Rest APIs



DSS/Data Prep Swagger Public Spec [.../datasetsvc/public/swagger.json](https://slc07rmk.us.oracle.com:9704/datasetsvc/public/swagger.json)

DSS/Data Prep Swagger Public Spec

GET	/v4/connections	Returns a list of all connections
POST	/v4/connections	Create a connection with parameter json
DELETE	/v4/connections/{connection-uri}	Delete a connection
GET	/v4/connections/{connection-uri}	List information of a single connection
PUT	/v4/connections/{connection-uri}	Update the metadata of a connection
GET	/v4/connections/{connection-uri}/acl	Get the ACL for a connection
PUT	/v4/connections/{connection-uri}/acl	Set the ACL for a connection
PUT	/v4/connections/{connection-uri}/actions	Delete all or selective replication schema tables for a target cloud replication connection object
GET	/v4/connections/{connection-uri}/connection-metadata-xml	Get the metadata XML for a connection
PUT	/v4/connections/{connection-uri}/connection-metadata-xml	Replace the metadata XML for a connection
PUT	/v4/connections/{connection-uri}/credential	Update a connection credentials
GET	/v4/connections/{connection-uri}/object-list{path-separator}{directory-uri}	Get object listing for a connection
GET	/v4/connections/{connection-uri}/objects{path-separator}{object-id}	Get replication runtime details for a target cloud replication connection object
PUT	/v4/connections/{connection-uri}/objects{path-separator}{object-id}	Update replication runtime details for a target cloud replication connection object
PUT	/v4/connections/{connection-uri}/objects{path-separator}{object-id}/filters	Validate filter query for a source cloud replication connection object
GET	/v4/dataflows	Get metadata for dataflows
POST	/v4/dataflows	Create a dataflow
GET	/v4/dataflows/jobs	
DELETE	/v4/dataflows/{dataflow-id}	Delete a dataflow
GET	/v4/dataflows/{dataflow-id}	Get the metadata of a dataflow

50 + available
DSS REST API
Calls in OAC

PUT	/v4/dataflows/{dataflow-id}	Update a dataflow
POST	/v4/dataflows/{dataflow-id}/actions	Perform execute/stop action on a dataflow
GET	/v4/dataflows/{dataflow-id}/jobs	Get all jobs in a dataflow
GET	/v4/dataflows/{dataflow-id}/jobs/{job-id}	Get status of a particular job in a dataflow
GET	/v4/dataflows/{dataflow-id}/last-ingest-values	Get datasets last values
GET	/v4/dataflows/{dataflow-id}/status	Get dataflow status
GET	/v4/dataflows/{dataflow-uri}/acl	Get the ACL for the dataflow
PUT	/v4/dataflows/{dataflow-uri}/acl	Set the ACL for the dataflow
GET	/v4/datasets	Get metadata for datasets
PUT	/v4/datasets	Finalize datasets
POST	/v4/datasets/{dataset-id}/actions	Invoke profile job on a particular dataset
DELETE	/v4/datasets/{dataset-uri}	Delete a dataset
GET	/v4/datasets/{dataset-uri}	Get attributes of a dataset
POST	/v4/datasets/{dataset-uri}	Set attributes of a dataset
PUT	/v4/datasets/{dataset-uri}	Replace a dataset and metadata
GET	/v4/datasets/{dataset-uri}/acl	Get the ACL for a dataset
PUT	/v4/datasets/{dataset-uri}/acl	Set the ACL for a dataset
GET	/v4/datasets/{dataset-uri}/biserver-metadata-xml	Get the BI Server metadata xml of a dataset
PUT	/v4/datasets/{dataset-uri}/biserver-metadata-xml	
GET	/v4/datasets/{dataset-uri}/canonical-data	Get the canonical data for a dataset
GET	/v4/datasets/{dataset-uri}/provider-options-xml	
PUT	/v4/datasets/{dataset-uri}/provider-options-xml	
GET	/v4/datasets/{dataset-uri}/rawfile	Get the raw file of the dataset
HEAD	/v4/datasets/{dataset-uri}/rawfile	
PUT	/v4/datasets/{dataset-uri}/rawfile	Replace the rawdata for a dataset
GET	/v4/datasets/{dataset-uri}/schema	Get schema of a dataset
POST	/v4/datasets/{dataset-uri}/schema	Set schema of a dataset
GET	/v4/datasets/{dataset-uri}/type-options-xml	Returns the type options xml of a dataset
PUT	/v4/datasets/{dataset-uri}/type-options-xml	Replace the type options xml of a dataset
PUT	/v4/providers/managed/upload	Upload a managed dataset
POST	/v4/providers/{provider-name}/{path-separator}{version}/cert	Upload certificate for a provider

5 – Quick Start Templates

Create Instance

Cancel Custom

QuickStarts

Start with a common configuration or click Custom to choose from all available options.

Instance Name: oac979820

Self-Service Analytics

Standard Edition offers you self-service data visualization and data preparation. Explore and visualize business data from various data sources, including databases, spreadsheets, Oracle applications, big data and more.

Create

Includes:

- Self-service data visualization
- Self-service data preparation
- Self-service data enrichment

Learn More

Essbase

Essbase Edition offers business modeling with the Essbase multidimensional OLAP (Online Analytical Processing) engine.

Create

Includes:

- Collaborative data collection
- Scenario modeling
- What-if analysis

Learn More

Enterprise Analytics

Enterprise Edition offers you enterprise-wide analytics. Build sophisticated data models to support enterprise business definitions and analysis.

Create

Includes:

- Enterprise data models
- Enterprise reports and dashboards
- Pixel-perfect reports
- Information delivery
- Self-service data visualization and preparation (blend self-service and enterprise data)
- Day by Day mobile app

Instances

Instances

Instance Name Search by instance name or tags

oac953642

Status: Creating service ...

Submitted On: Jan 14, 2019 7:58:47 PM UTC

OCPU: 0

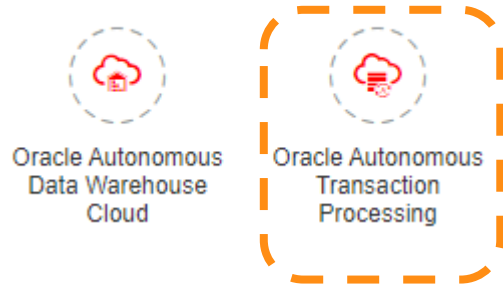
As of Jan 14, 2019

Quick start templates for OAC + Essbase- single click deployment

Deployment times under 30 minutes w/email notification and access details

6 – Easier to Create ADW and ATP DB Connections

Upload wallet file



Oracle Autonomous
Transaction Processing

Create Connection

Oracle Autonomous Data Warehouse Cloud

* Connection Name

Description

* Client Credentials

* Username

* Password

* Service Name

Create Connection

Oracle Autonomous Transaction Processing

* Connection Name

Description

* Client Credentials

* Username

* Password

* Service Name

No more need to open wallet file details manually :

- Host and port # are populated automatically
- Drop down on service name

7 – Suppress Repeating Values, Summarize Duplicates

R61 Geo Country Code, R69 Area C...

General

Title Auto

Type Table

Legend Auto

Suppress Repeating Values Off

Show Duplicate Rows Off

Suppresses
repeating values

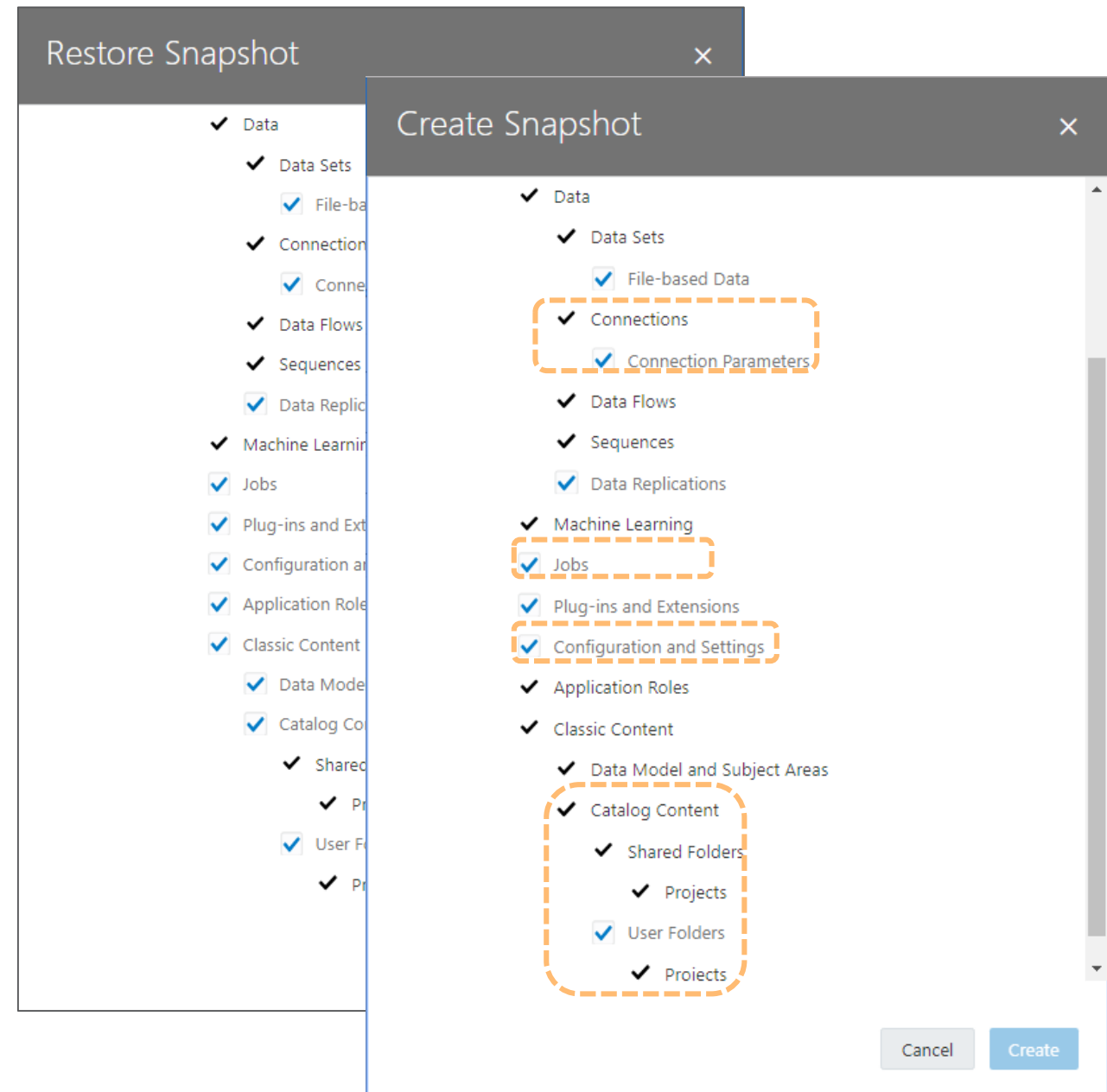
Show Duplicate Rows
(dataset grain)

Product Category	Product Sub Category
Furniture	Bookcases
Furniture	Chairs & Chairmats
Furniture	Office Furnishings
Furniture	Tables
Office Supplies	Appliances
Office Supplies	Binders and Binder Acces
Office Supplies	Envelopes
Office Supplies	Labels
Office Supplies	Paper
Office Supplies	Pens & Art Supplies
Office Supplies	Rubber Bands
Office Supplies	Scissors, Rulers and Trin
Office Supplies	Storage & Organization
Technology	Computer Peripherals
Technology	Copiers and Fax
Technology	Office Machines
Technology	Telephones and Communication
Total	

Product Category	Product Sub Category	Sales
Furniture	Bookcases	370,475.59
	Chairs & Chairmats	1,046,332.70
	Office Furnishings	445,605.98
	Tables	1,030,879.05
Office Supplies	Appliances	431,437.26
	Binders and Binder Accessories	585,361.54
	Envelopes	126,645.07
	Labels	23,220.91
	Paper	251,643.77
	Pens & Art Supplies	103,130.53
	Rubber Bands	8,412.39
	Scissors, Rulers and Trimmers	40,087.72
	Storage & Organization	561,919.82
Technology	Computer Peripherals	470,248.59
	Copiers and Fax	547,260.50
	Office Machines	1,077,394.46
	Telephones and Communication	1,379,944.12
Total		8,500,000.00

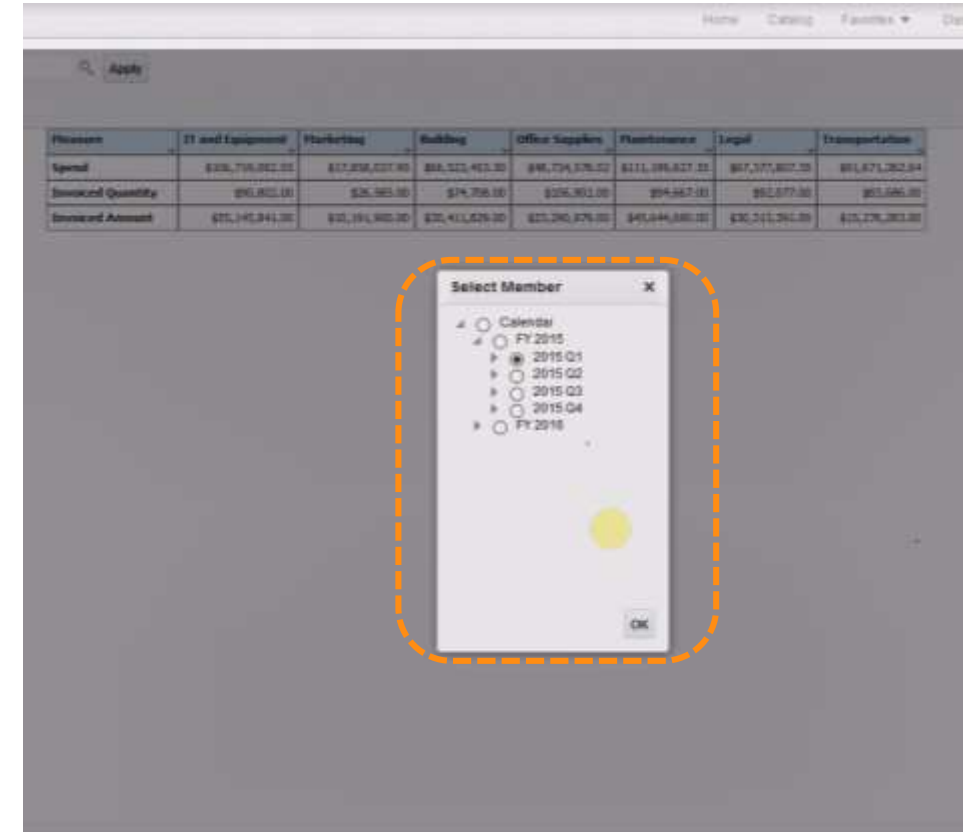
8-BIP : BAR Snapshot Support

- BI Publisher artifacts are now included in BAR file and include:
 - BI Publisher Catalog Content
 - Data Source Connections
 - Runtime Properties
 - Scheduled Jobs
 - User Credentials
- Custom Selections for BI Publisher in a Snapshot:
 - **Connection Parameters:** For Data source Connections & User Credentials
 - **Jobs:** For Schedule Jobs
 - **Configuration and Settings:** For Runtime properties
 - **Catalog Content**



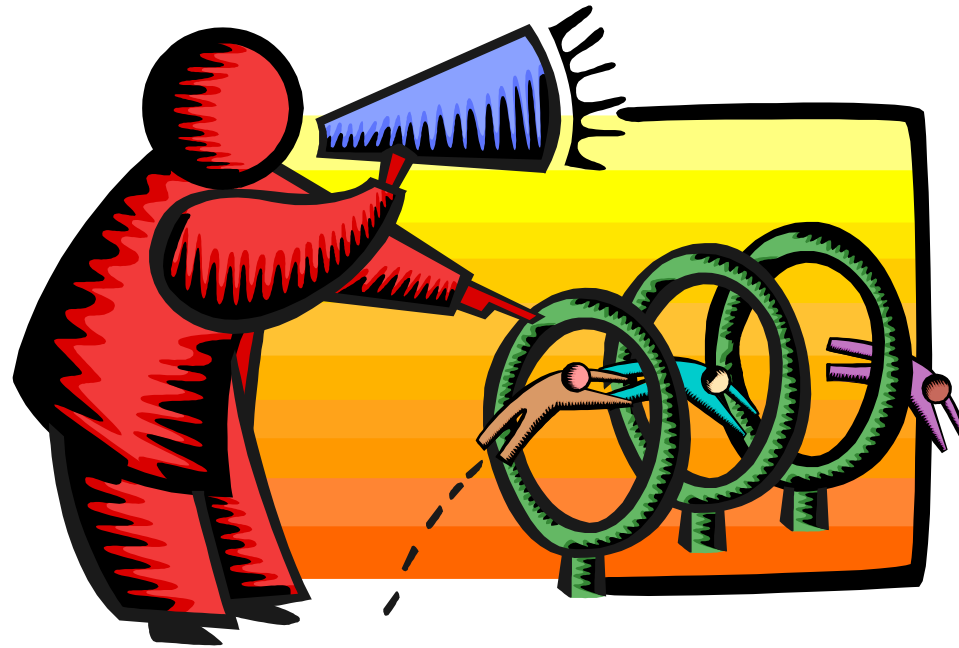
9-BIP : Essbase POV Parameter Support

- Now you can design your report against Essbase using POV as parameter. The POV parameter allows to select hierarchical member dimensions in the report
- Earlier you could create a report against Essbase data source using MDX query with POV member dimension as static selection.





Demo OAC BI Features

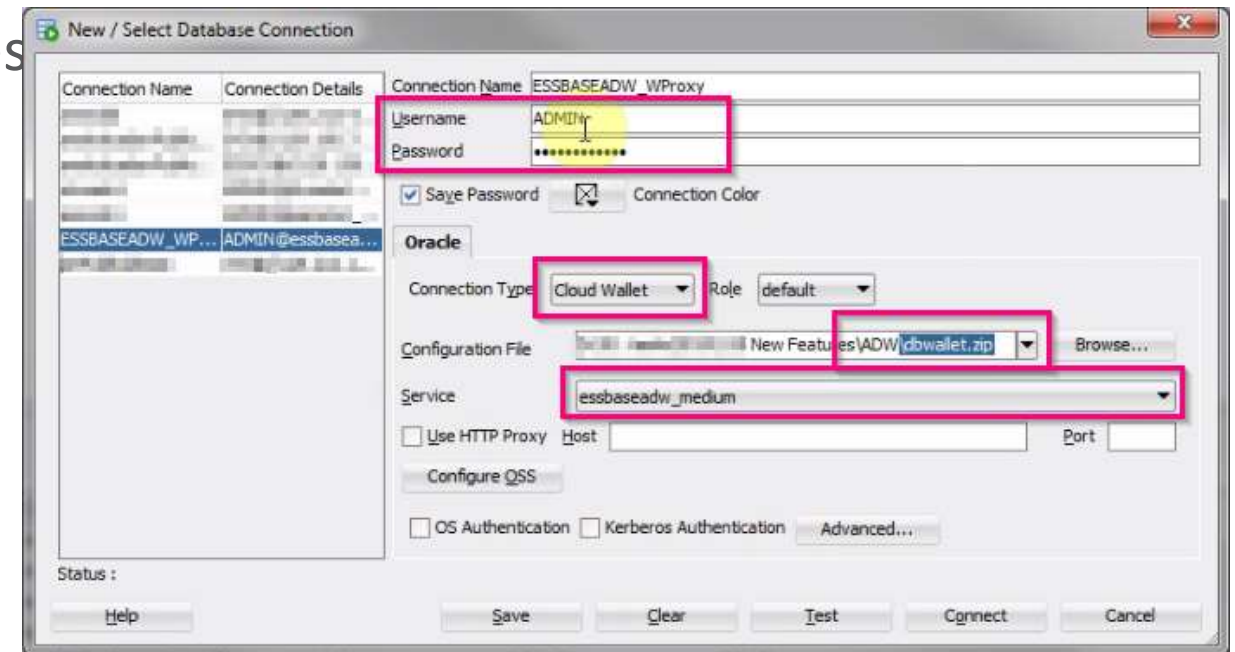


OAC 5.1 – Essbase Features Overview

- Oracle Autonomous Database support
- Multi-cell Drill Through
- Outline Support for Alias Tables in Web UI
- Calc Tuple Support
- Smart View support for Ancestor On Top
- Auto Generation of Aggregate Views
- Named Queries and Layouts
- Other New Features
- New Gallery Templates

Oracle Autonomous Database support


- Support OAC Essbase to connect to an Oracle Autonomous Data Warehouse (ADW) instance.
- Support uploading of wallet files for defining connection information to ADW
- Ability to connect to multiple ADW instances
- Defined using the Connections and Data source constructs
- Ability to
 - Create data load & dim build
 - Define Drill Thru to ADW for details
 - Define Variable Security filters
 - Create partitions for real time data source



Test and Create Connection

Create Connection

✓ File 'dbwallet.zip' uploaded successfully


Oracle Database

Autonomous(Beta) ☒

* Name

* Service Name

Wallet File

/system/wallets/Sample/essbaseADW


* User

* Password

Description

Create Connection

✓ Success.


Oracle Database

Autonomous(Beta) ☒

* Name

* Service Name

Wallet File

/system/wallets/essbaseADW

* User

* Password

Description

Create Data source

Create Datasource

< Back 1 2 3 4 Next >

General Columns Parameters Preview

* Connection:

* Name:

Description:

* Query:

Create Datasource

< Back 1 2 3 4 Next >

General Columns Parameters Preview

Index	Name	Type	Alias
1	PRODUCT	String	
2	MARKET	String	
3	SCENARIO	String	
4	MONTH	String	
5	WEEK	String	
6	SALES	Double	

Create Cancel

ORACLE Analytics Cloud - Essbase

Applications Jobs Files Scenarios Security Sources Console Academy


Sources

Datasources

Connections Datasources

Datasource created successfully

Create Datasource

Name	Connection	Description	Actions
 salesWeeklyADW	essbaseADW	Connection to ADW for weekly sales data	

Create Datasource

< Back 1 2 3 4 Next >

General Columns Parameters Preview

PRODUCT	MARKET	SCENARIO	MONTH	WEEK	SALES	COGS
400-20	New York	Actual	Feb	week4	89.91	36.63
400-20	New York	Actual	Mar	week1	44.73	18.27
400-20	New York	Actual	Mar	week2	57.510000000000005	23.490000000000002
400-20	New York	Actual	Mar	week3	31.95	13.049999999999999
400-20	New York	Actual	Mar	week4	78.81	32.19
400-20	New York	Actual	Apr	week1	46.83	19.11
400-20	New York	Actual	Apr	week2	60.21	24.57
400-20	New York	Actual	Apr	week3	33.449999999999996	13.65

Create Cancel

Define Drill Thru report

f(x) Drillthrough Report

Save and Close

Save

Close

* NameWeeklySalesDTDatasourcesalesWeeklyADWUse Temporary Tables

Column Mapping

Drillable Regions

Column	Report Columns	Dimension/Generation (Filter Condition)
PRODUCT	<input checked="" type="checkbox"/>	Product Product SKU [Generation]
MARKET	<input checked="" type="checkbox"/>	Market LevelD [Level]
SCENARIO	<input checked="" type="checkbox"/>	Scenario LevelD [Level]
MONTH	<input checked="" type="checkbox"/>	Year Months [Generation]
WEEK	<input checked="" type="checkbox"/>	None
SALES	<input checked="" type="checkbox"/>	None
COGS	<input checked="" type="checkbox"/>	None

Basic x

f(x) New Report x

Drill Thru into details from Smart View back to ADW

C3											
	A	B	C	D	E	F	G	H	I	J	
1			New York	Actual							
2			Sales	COGS	Margin	Total Exper	Profit	Inventory	Ratios	Measures	
3	Cola	Jan	678	271	407	145	262	2101	60.0295	262	
4	Cola	Feb	645	258	387	142	245	2067	60	245	
5	Cola	Mar	675	270	405	146	259	2041	60	259	
6	Cola	Qtr1	1998	799	1199	433	766	6209	60.01001	766	
7	Cola	Qtr2	2358	942	1416	488	928	6834	60.05089	928	
8	Cola	Qtr3	2612	1044	1568	518	1050	7851	60.03063	1050	
9	Cola	Qtr4	1972	788	1184	430	754	7770	60.04057	754	
10	Cola	Year	8940	3573	5367	1869	3498	28664	60.03356	3498	
11	Colas	Jan	678	271	407	145	262	2101	60.0295	262	
12	Colas	Feb	645	258	387	142	245	2067	60	245	
13	Colas	Mar	675	270	405	146	259	2041	60	259	
14	Colas	Qtr1	1998	799	1199	433	766	6209	60.01001	766	
15	Colas	Qtr2	2358	942	1416	488	928	6834	60.05089	928	
16	Colas	Qtr3	2612	1044	1568	518	1050	7851	60.03063	1050	
17	Colas	Qtr4	1972	788	1184	430	754	7770	60.04057	754	
18	Colas	Year	8940	3573	5367	1869	3498	28664	60.03356	3498	
19											

C8											
	A	B	C	D	E	F	G				
1	PRODUCT	MARKET	SCENARIO	MONTH	WEEK	SALES	COGS				
2	100-10	New York	Actual	Jan	week1	142.38	56.91				
3	100-10	New York	Actual	Jan	week2	183.06	73.17				
4	100-10	New York	Actual	Jan	week3	101.7	40.65				
5	100-10	New York	Actual	Jan	week4	250.86	100.27				
6											

Multi Cell Drill Thru

- Ability to select multiple ranges to perform Drill Thru
- Drill thru cells can be:
 - Symmetric selection of cells – same hierarchy (non-recursive)
 - Symmetric selection of cells – same hierarchy (recursive)
 - Symmetric selection of cells – same hierarchy (Level0)
 - Asymmetric selection of cells
- No limitation on number of data cells to be selected in Smart View for report execution.
- Performance enhancement for Oracle Database with the use of temporary tables

Symmetric selection of cells – same hierarchy (non-recursive)

- “Jan” and “Feb” are from the same Generation of “Time” dimension
- Mapping to the data source is done for the same generation of the members selected for drill thru

Year IN ('Jan', 'Feb')
Product IN ('100-10')
Scenario = 'Actual'
Region IN ('East')

	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Sales	COGS	Margin	Total Expenses	Profit	Inventory	Ratios	Measures	
2	Actual	East	100-10	Jan	1812	599	1213	376	837	4643	66.9426	837	
3	Actual	East	100-10	Feb	1754	588	1166	374	792	4253	66.47662	792	
4	Actual	East	100-10	Mar	1805	596	1209	377	832	3912	66.98061	832	
5	Actual	East	100-10	Qtr1	5371	1783	3588	1127	2461	4643	66.8032	2461	
6	Actual	East	100-10	Qtr2	6024	1903	4121	1181	2940	3747	68.40969	2940	
7	Actual	East	100-10	Qtr3	6505	2001	4504	1206	3298	3598	69.23905	3298	
8	Actual	East	100-10	Qtr4	5305	1756	3549	1119	2430	1898	66.89915	2430	
9	Actual	East	100-10	Year	23205	7443	15762	4633	11129	4643	67.92502	11129	
10	Actual	East	100-20	Jan	200	84	116	49	67	500	58	67	
11	Actual	East	100-20	Feb	206	86	120	49	71	490	58.25243	71	
12	Actual	East	100-20	Mar	214	89	125	51	74	481	58.41121	74	
13	Actual	East	100-20	Qtr1	620	259	361	149	212	500	58.22581	212	
14	Actual	East	100-20	Qtr2	822	344	478	175	303	502	58.15085	303	
15	Actual	East	100-20	Qtr3	843	353	490	178	312	692	58.12574	312	
16	Actual	East	100-20	Qtr4	783	327	456	169	287	656	58.23755	287	
17	Actual	East	100-20	Year	3068	1283	1785	671	1114	500	58.18123	1114	

Symmetric selection of cells – same hierarchy (recursive)

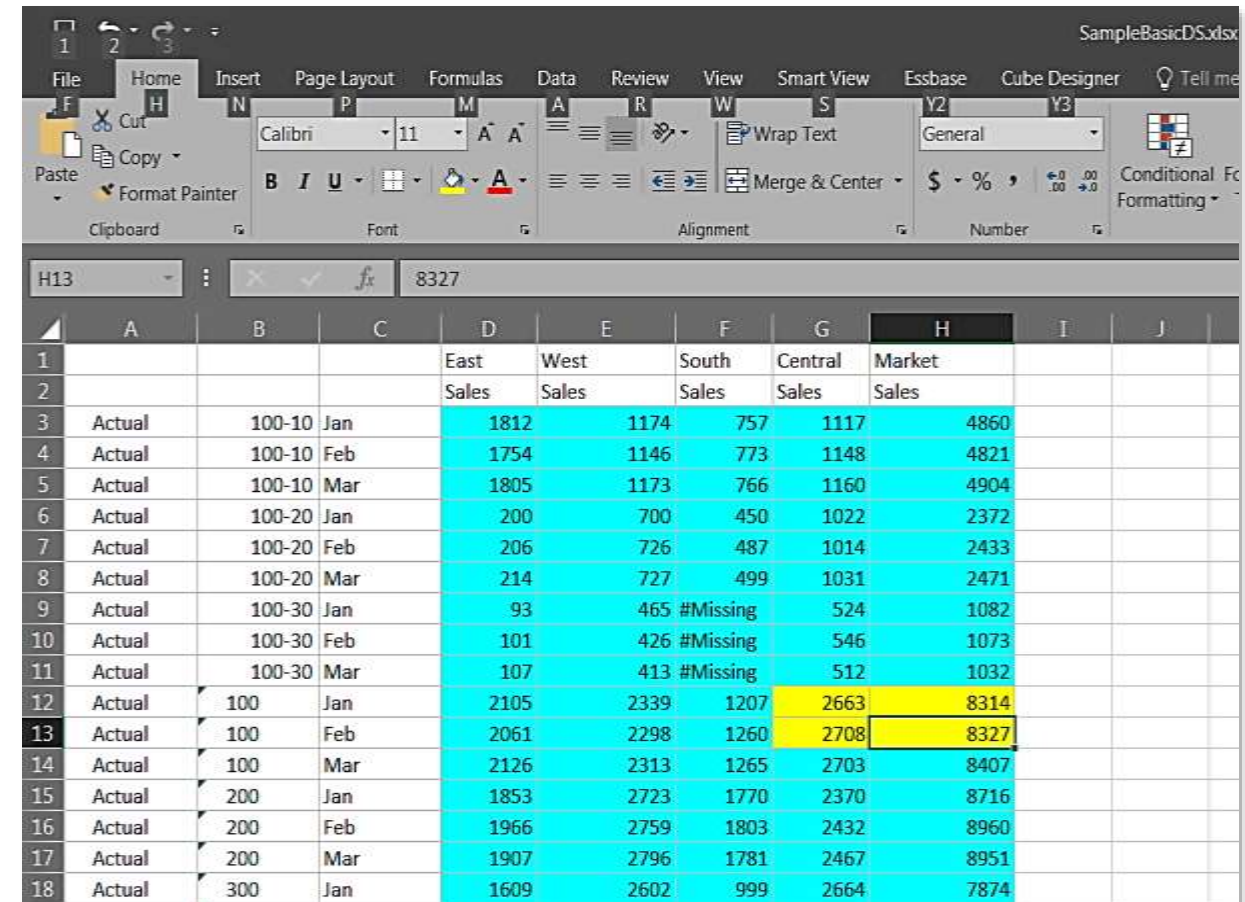
- Market Dim selection is for **Central** and **Market**
- Product Dim selection is for **100**, hence recursive would get **100-10**, **100-20** and **100-30**

Year IN ('Jan', 'Feb')

Product IN ('100-10', '100-20', '100-30')

Scenario = 'Actual'

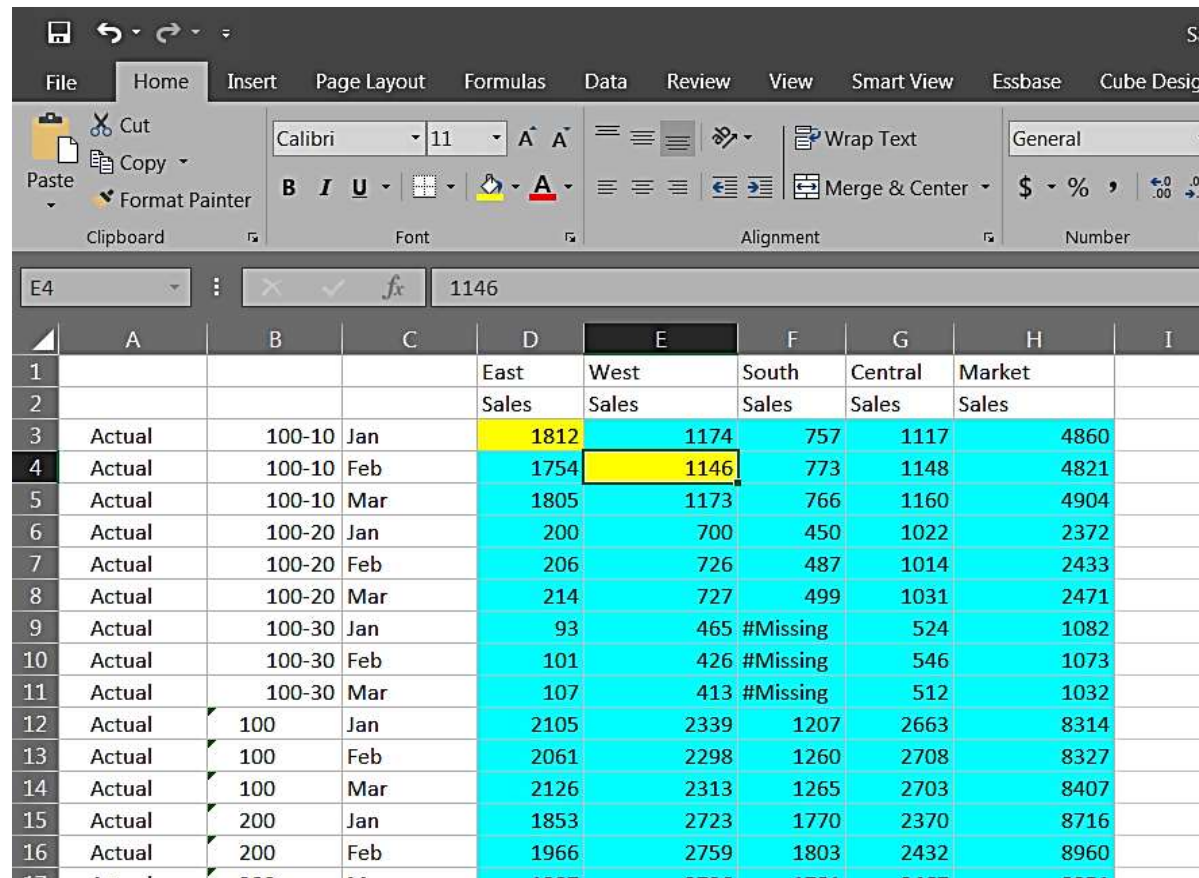
Region IN ('East', 'West', 'South', 'Central')



	A	B	C	D	E	F	G	H	I	J
1				East	West	South	Central	Market		
2				Sales	Sales	Sales	Sales	Sales		
3	Actual	100-10	Jan	1812	1174	757	1117	4860		
4	Actual	100-10	Feb	1754	1146	773	1148	4821		
5	Actual	100-10	Mar	1805	1173	766	1160	4904		
6	Actual	100-20	Jan	200	700	450	1022	2372		
7	Actual	100-20	Feb	206	726	487	1014	2433		
8	Actual	100-20	Mar	214	727	499	1031	2471		
9	Actual	100-30	Jan	93	465	#Missing	524	1082		
10	Actual	100-30	Feb	101	426	#Missing	546	1073		
11	Actual	100-30	Mar	107	413	#Missing	512	1032		
12	Actual	100	Jan	2105	2339	1207	2663	8314		
13	Actual	100	Feb	2061	2298	1260	2708	8327		
14	Actual	100	Mar	2126	2313	1265	2703	8407		
15	Actual	200	Jan	1853	2723	1770	2370	8716		
16	Actual	200	Feb	1966	2759	1803	2432	8960		
17	Actual	200	Mar	1907	2796	1781	2467	8951		
18	Actual	300	Jan	1609	2602	999	2664	7874		

Asymmetric selection of cells

- Ability to select multiple cells which are not contiguous



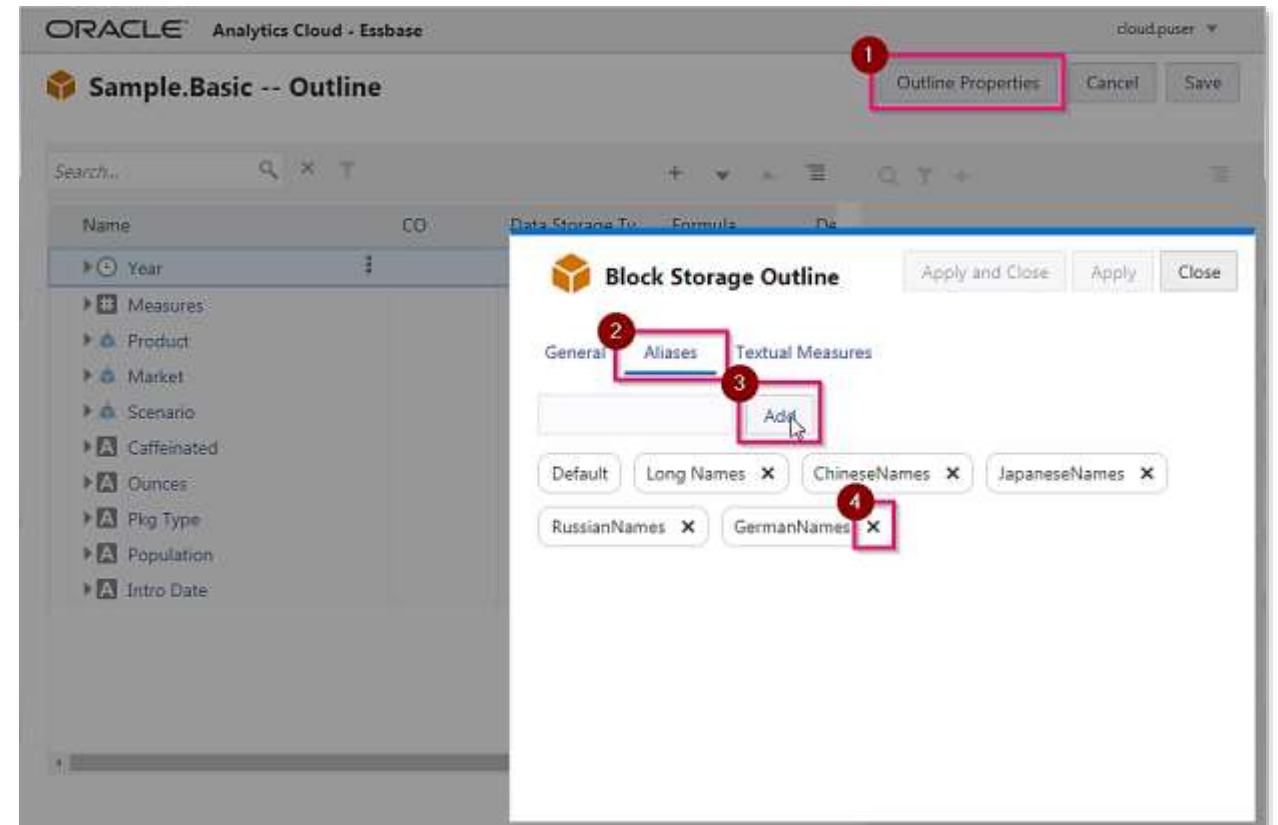
The screenshot displays an Oracle Essbase spreadsheet interface. The ribbon at the top includes tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, View, Smart View, Essbase, and Cube Design. The Home tab is active, showing options for Clipboard (Cut, Copy, Paste, Format Painter), Font (Calibri, size 11, bold, italic, underline, color, background color), Alignment (text alignment, merge & center), and Number (currency, percentage, decimal places). The formula bar shows 'E4' and the value '1146'. The spreadsheet grid has columns A through I and rows 1 through 16. The data is organized by region (East, West, South, Central, Market) and time periods (Jan, Feb, Mar for 100-10, 100-20, 100-30). Cells are highlighted in yellow and cyan to demonstrate asymmetric selection.

	A	B	C	D	E	F	G	H	I
1				East	West	South	Central	Market	
2				Sales	Sales	Sales	Sales	Sales	
3	Actual	100-10	Jan	1812	1174	757	1117	4860	
4	Actual	100-10	Feb	1754	1146	773	1148	4821	
5	Actual	100-10	Mar	1805	1173	766	1160	4904	
6	Actual	100-20	Jan	200	700	450	1022	2372	
7	Actual	100-20	Feb	206	726	487	1014	2433	
8	Actual	100-20	Mar	214	727	499	1031	2471	
9	Actual	100-30	Jan	93	465	#Missing	524	1082	
10	Actual	100-30	Feb	101	426	#Missing	546	1073	
11	Actual	100-30	Mar	107	413	#Missing	512	1032	
12	Actual	100	Jan	2105	2339	1207	2663	8314	
13	Actual	100	Feb	2061	2298	1260	2708	8327	
14	Actual	100	Mar	2126	2313	1265	2703	8407	
15	Actual	200	Jan	1853	2723	1770	2370	8716	
16	Actual	200	Feb	1966	2759	1803	2432	8960	

Manage Alias Tables

- Ability to Manage Alias tables
 - Create Alias tables
 - Delete existing Alias tables
- Assign values to specific members for specific Alias tables

Aliases	
ChineseNames	商品
Default	
GermanNames	Produkt
JapaneseNames	商品
Long Names	
RussianNames	Товары



Calc Tuple Support

Tuple

A calculation *tuple* is a way to represent a data slice of members, from two or more *sparse dimensions*, to be used in a calculation.

- By default, when multiple members from different dimension are in a **calculation FIX statement**, or are part of the **grid POV in Smart View**, the calculation scope is a **Cartesian-product (all possible combinations)** of all member combinations from different dimensions in the FIX.
- A **Calculation Tuple** is a way to represent a **data slice of members**, from two or more sparse dimensions, to be used in a calculation.

Using Tuples

- Ability to **focus calculations** in a **calculation script** or the **active Smart View Grid**
- Tuple selection helps optimize **asymmetric grid calculations** across dimensions hence avoiding **over-calculation**
- Calculation tuples are specified only for **sparse member combinations**
- **Multiple members** from a **single sparse dimension** can be included in a calculation tuple specification
- **Special syntax** in FIX statements helps you specify **which tuples to calculate**.

Specifying Tuples

- Using @GRIDTUPLES Statement (*New*)
 - way to select tuples is contextually, based on whichever members are present in a Smart View grid POV at calculation run time by providing the @GRIDTUPLES function as an argument to FIX, in the calculation script.
- Using RTSV (Run Time Substitution Variables)
 - The Calculation Scope is declared variables and their values in the context of the runtime action or from the members of a dimension presented on a Smart View grid
- Using Smart View POV Grid

```
FIX ([{ tupleList | @GRIDTUPLES(dimensionList) },] fixMbrs)  
COMMANDS ;  
ENDFIX
```

@GRIDTUPLE in action...



- To execute a calc script only on the members for combination of **Product** and **Market Dimensions** in the SV Grid shown on the right...
- Create a script using @GRIDTUPLE

```
FIX (  
  {@GridTuples(Product, Market)}  
)  
Marketing(  
  Marketing = Marketing + 1;  
);  
ENDFIX
```

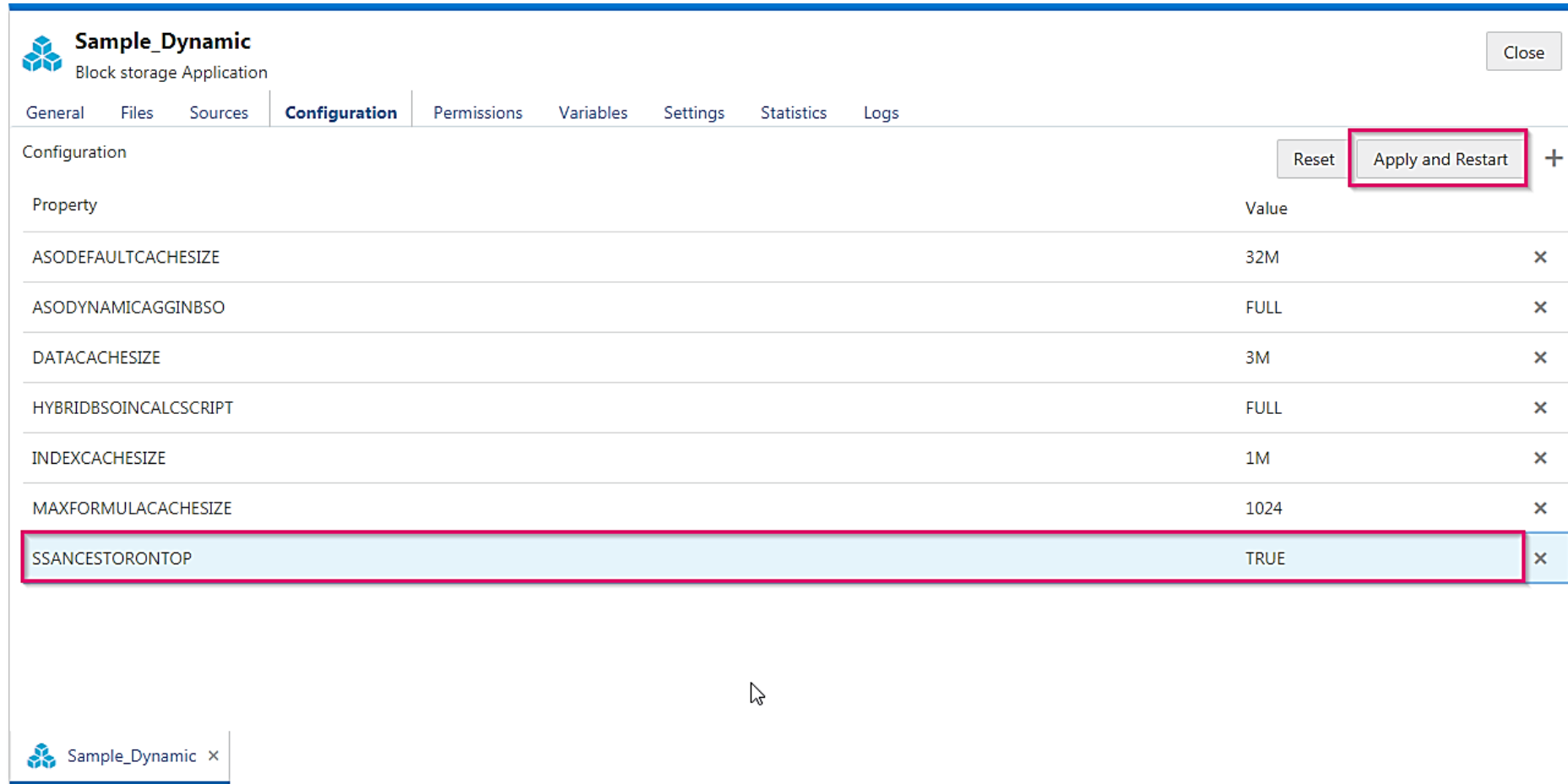
E21					
	A	B	C	D	E
1			Jan	Actual	Marketing
2			Entity_1011	Entity_1012	
3			Pre-Flight	Sprint1	
4			Houston_Site	Chicago_Site	
5	Cola	New York	4	4	
6	Cola	Massachusetts	4	4	
7	Cola	Florida	4	4	
8	Cola	Connecticut	4	4	
9	Cola	New Hampshire	4	4	
10	Diet Cola	New York	4	4	
11	Diet Cola	Florida	4	4	
12					

Ancestor on Top

- Provide users ability to view the parent members at the top while zoom-in into a dimension
- Set application level configuration parameter **SSANCESTORONTOP** to TRUE
- Also set the Smart View property **Ancestor Position** to Top

A3						:	 		<i>fx</i>	Year	
		A	B	C	D						
1			Product	Market	Scenario						
2			Measures								
3		Year	105522								
4		Qtr1	24703								
5		Qtr2	27107								
6		Qtr3	27912								
7		Qtr4	25800								
8											

Set the Application configuration parameter



Sample_Dynamic
Block storage Application

General Files Sources **Configuration** Permissions Variables Settings Statistics Logs

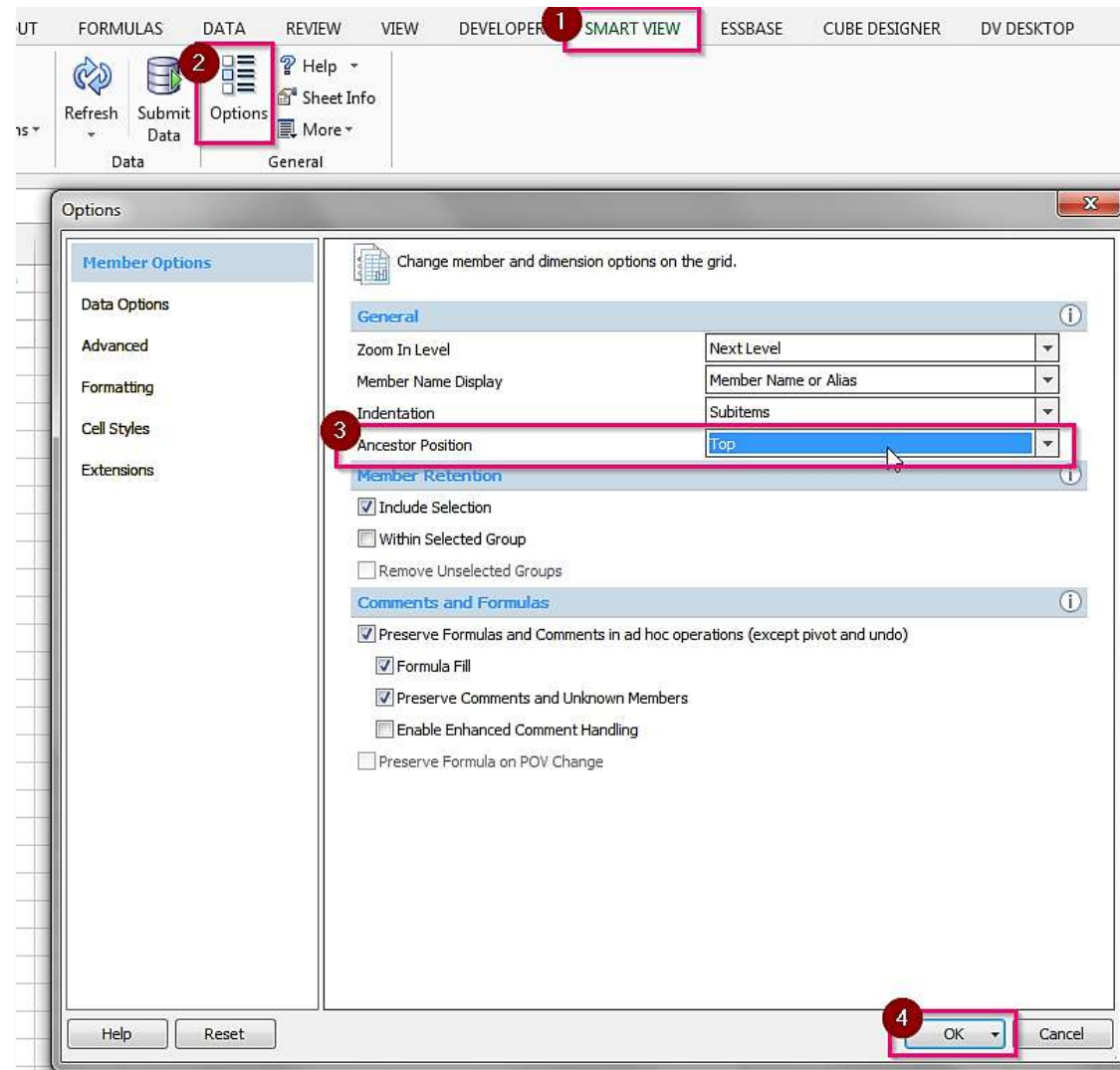
Configuration

Reset Apply and Restart +

Property	Value	
ASODEFAULTCACHE SIZE	32M	×
ASODYNAMICAGGINBSO	FULL	×
DATACACHE SIZE	3M	×
HYBRIDBSOINCALCSCRIPT	FULL	×
INDEXCACHE SIZE	1M	×
MAXFORMULACACHE SIZE	1024	×
SSANCESTORONTOP	TRUE	×

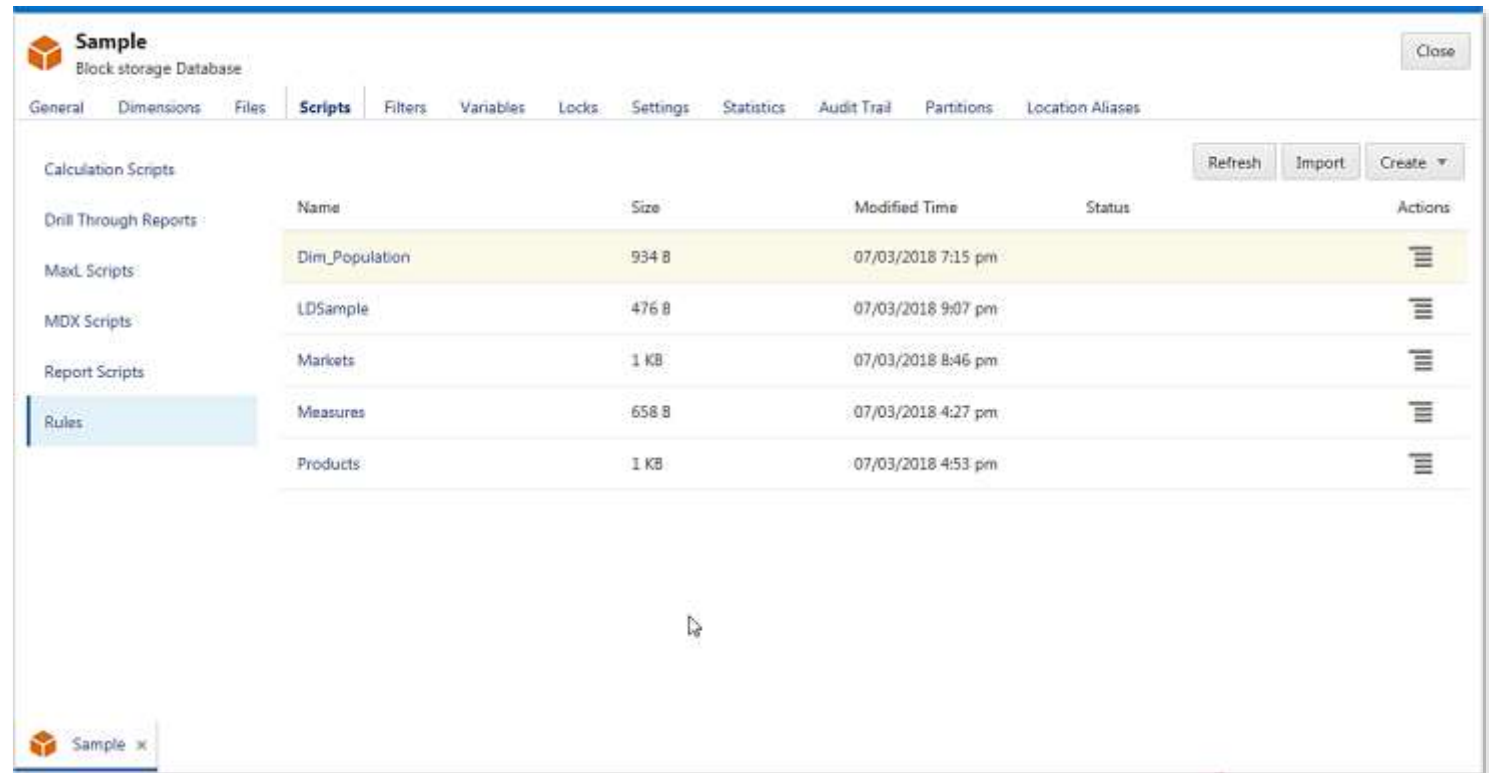
Sample_Dynamic ×

Set the Smart View property



Auto Generation of Aggregate Views

- New Editor allows Preview of Data while creating rules file
- Can use connections and data sources created in the Web UI
- Define Dim Build and Data Load Rules
- Preview can be done from either Data Source or File



Name	Size	Modified Time	Status	Actions
Dim_Population	934 B	07/03/2018 7:15 pm		
LDSample	476 B	07/03/2018 9:07 pm		
Markets	1 KB	07/03/2018 8:46 pm		
Measures	658 B	07/03/2018 4:27 pm		
Products	1 KB	07/03/2018 4:53 pm		

Layouts

- Provide ability for users to create own layouts and save them
- Capability to
 - Set a default layout for specific user
 - Set a default layout for database (Can be set by Application Manager)

Layouts			A
Name	Actions	1	
Actual Colas East Sal...		2	
Quarter 1 Sales		3	
West Root Beer Sales		4	Cola
Sales by Quarter		5	Cola
		6	Cola
		7	Cola

Layouts			A	B	C	D	E	F	G	H	I	J
Name	Actions	1				Scenario						
Quarter 1 Sales		2			West	West	West					
West Root Beer Sales		3			Sales	COGS	Margin					
		4	Old Fashioned	Jan	667	286	381					
		5	Old Fashioned	Feb	705	301	404					
		6	Old Fashioned	Mar	707	302	405					
		7	Old Fashioned	Qtr1	2079	889	1190					
		8	Old Fashioned	Qtr2	2187	931	1256					
		9	Old Fashioned	Qtr3	2467	1052	1415					
		10	Old Fashioned	Qtr4	2502	1071	1431					
		11	Old Fashioned	Year	9235	3943	5292					

Create and Save Layouts

Save Layout

* Name

Descrip...

☐ Shared Layout

☐ Default **Set as default layout for the user**

☐ Database Default **Set as default for all users, can be set by Database Manager role**

ORACLE

Analytics Cloud - Essbase

Sample_Dynamic/Basic

Ad Hoc Analysis

Reports

+

 Zoom In

≡

 Keep Only

↺

 Refresh

📄

 Submit

⬅

 Zoom Out

🚫

 Remove Only

🔄

 Pivot

📌

 Save Layout

Layouts Panel

✔

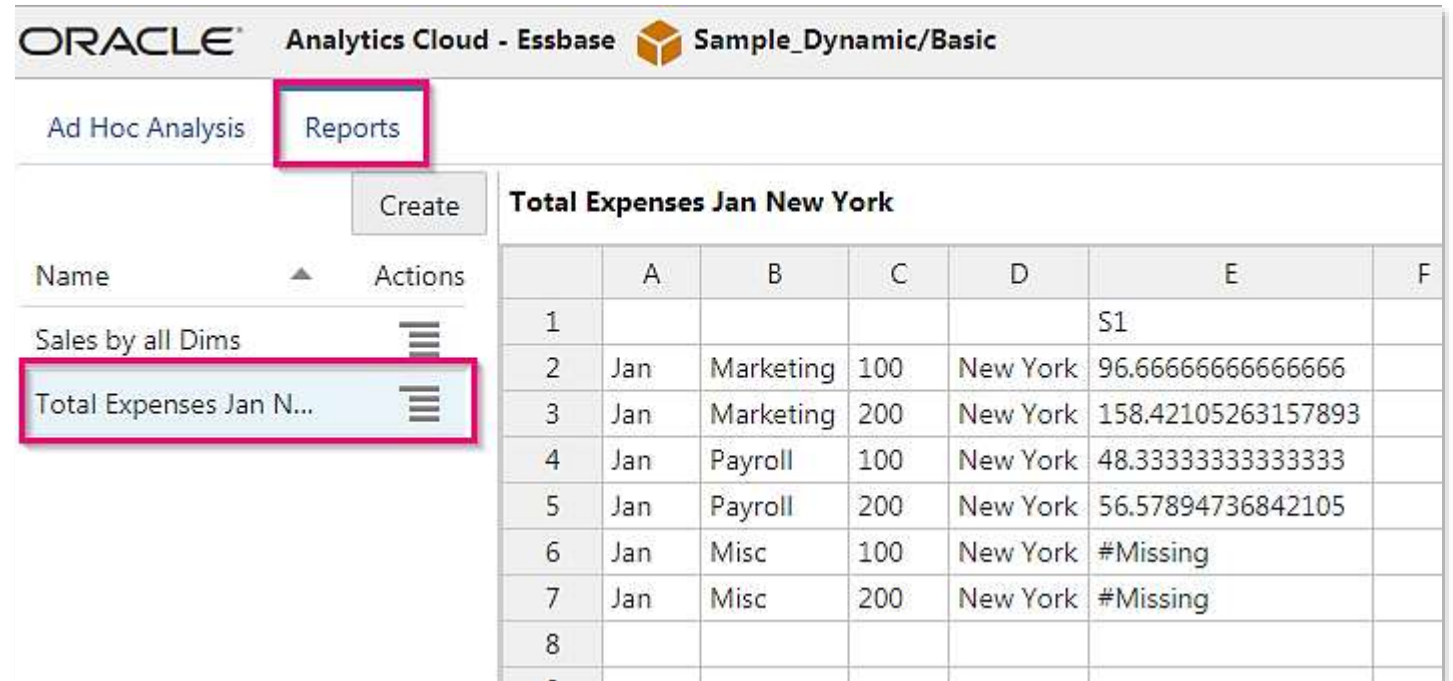
 Layout saved successfully

Layouts

Name	Actions	A	B	C	D	E	F	G	H
Actual Colas East Sa...	☰			Cola	Cola	Cola			
Quarter 1 Sales	☰			Sales	COGS	Margin			
West Root Beer Sales	☰	Colorado	Jan	190	83	107			
Colorado Cola Sales	☰	Colorado	Feb	190	83	107			
Sales by Quarter	☰	Colorado	Mar	193	84	109			
		Colorado	Qtr1	573	250	323			
		Colorado	Qtr2	558	244	314			
		Colorado	Qtr3	451	197	254			
		Colorado	Qtr4	281	122	159			
		Colorado	Year	1863	813	1050			

Reports

- Ability for users to save MDX queries as reports
- Database Manager and above roles can create reports which can be used by other users
- Ability to Export reports
 - CSV
 - EXCEL
 - HTML
 - JSON
- Ability to “Execute As”



The screenshot shows the Oracle Analytics Cloud interface. At the top, the header reads "ORACLE Analytics Cloud - Essbase Sample_Dynamic/Basic". Below the header, there are two tabs: "Ad Hoc Analysis" and "Reports". The "Reports" tab is selected and highlighted with a red box. To the right of the "Reports" tab is a "Create" button. Below the tabs, there is a list of reports. The first report is "Sales by all Dims" and the second is "Total Expenses Jan N...". The second report is highlighted with a red box. To the right of the report list is a table titled "Total Expenses Jan New York". The table has columns labeled A, B, C, D, E, and F. The rows show data for January, including Marketing and Payroll expenses, with some missing values indicated by "#Missing".

	A	B	C	D	E	F
1					S1	
2	Jan	Marketing	100	New York	96.66666666666666	
3	Jan	Marketing	200	New York	158.42105263157893	
4	Jan	Payroll	100	New York	48.33333333333333	
5	Jan	Payroll	200	New York	56.57894736842105	
6	Jan	Misc	100	New York	#Missing	
7	Jan	Misc	200	New York	#Missing	
8						

Create/Edit, Export & Execute as Reports

Edit Report

* Name Total Expenses Jan New York

Description MDX Query for Actuals vs Budget Expenses

* Query

```
WITH
  Member [Scenario].[S1] as '([Actual], [Total Expenses]) * ([Budget] / ([Total Expenses], [Budget]))'
SELECT {[Scenario].[S1]} on columns,
  Crossjoin(Crossjoin({[Jan]}, Crossjoin([Total Expenses].Children, {[100],[200]})), {[New York]}) on rows
FROM [Sample_Dynamic].[Basic]
```

✓ Script is valid

Validate Save Cancel

cloud.user1

Refresh Execute As Export

R	S	T	U	V

CSV
EXECL
HTML
JSON

Execute As

User *

Select User
cloud.user2
cloud.user1

New Gallery Applications

- Financial Analysis
 - Consolidations Restatements
- Technical
 - Solve Order Performance
 - Flip Sign
 - Calc Tuple
- Marketing Analysis
 - RFM Analysis
- Utilities
 - Currency Triangulation
- Demo Samples
 - Sample Dynamic

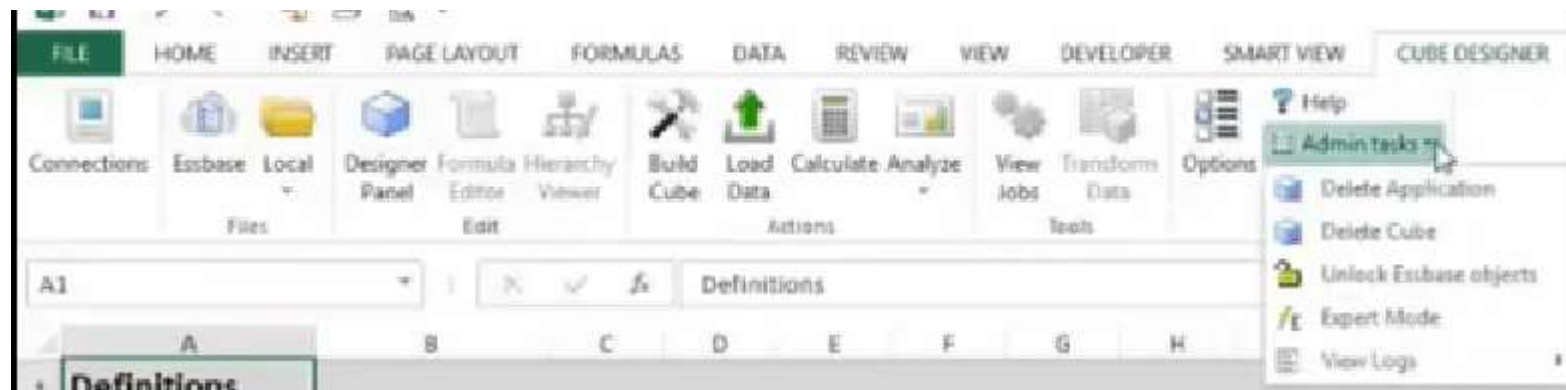
- New Analysis templates for Financial and Marketing Analysis
- Technical template for Calc Tuple
- Read Me for details



Upcoming Features from Cube Designer

- Additional Admin Tools

- Unlock Essbase Cube
- Expert Mode
- View Logs
 - Platform
 - Application




- Create an MDX sheet (works similar to the calc script)
- Formula Editor



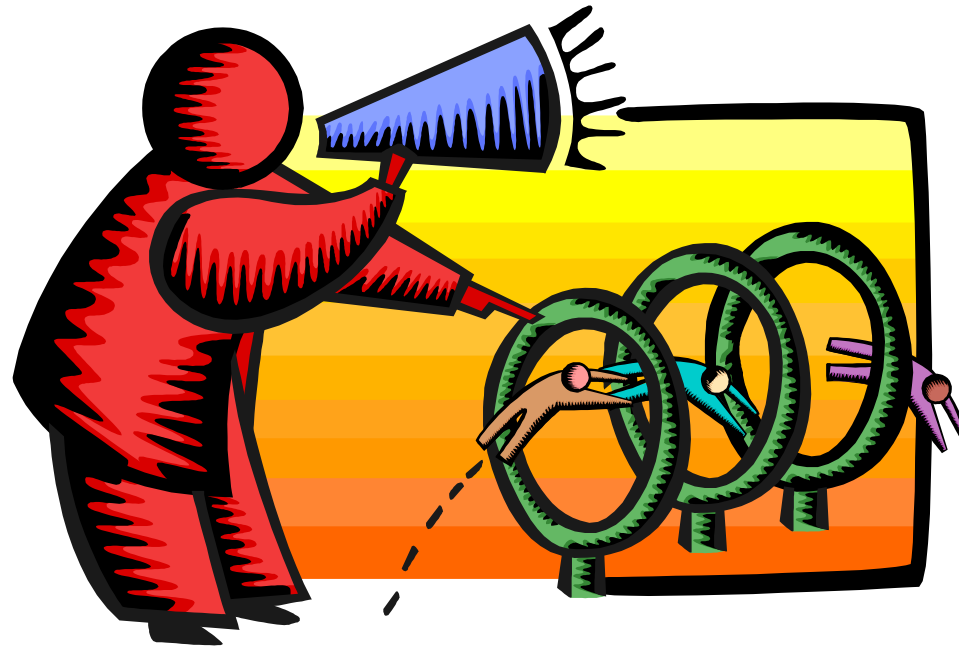
Expert Mode

- Push button approach to building an optimized cube
 - Creates a baseline statistics
 - Run through optimization routines
 - Tell how the optimized cube should look like
 - Help to move and improve your cubes





Demo Essbase Features





Oracle Analytics Library

Data Visualization Cloud


Secure | <https://www.oracle.com/solutions/business-analytics/data-visualization/library.html>

Overview Library Gallery

Overview **Plug-ins** Sample Projects Maps & Spatial Machine Learning Essbase Samples

Search


How to deploy Analytic Samples sort by Last Updated



Presentation Variable Prompts
Oracle
April 18, 2018

Use this custom plugin to set the value of any presentation variable from within a DV canvas. Presentation variables allow to make dynamic columns or dynamic constants in any Oracle DV custom calculation

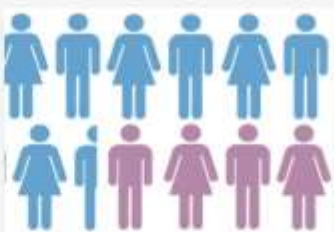
Download



Custom Tiles
Oracle
April 05, 2018

The Custom Tile plugin allows users to frame rules for performing conditional formatting on a performance tile. The layout of the tile is highly flexible with large number of formatting options which makes it better for representing KPIs.


Download



InfoGraphic Sample Plugin
Peak Indicators
Mar 15, 2018

This Info Graphic sample plugin developed by PEAK indicators enables you to display nice info graphic visuals within Oracle DV. It supports the use of your own custom images. A number of properties that allow you to specify the icon to use, font size, look at icons only for a specific population etc make this a very compelling visualization.

Download



Mobile Grid Bars Plug-in
Oracle
Feb 05, 2018

Designed specifically for mobile devices highlighting the use of a variety of bar charts.

Download






Image Gallery Plug-in
Oracle

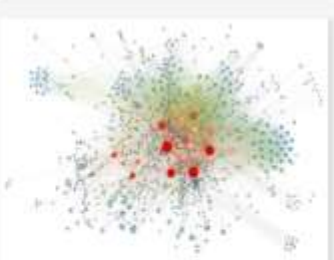


DV Governance



Force Directed Graph Plugin
Vlami
Jan 18, 2018

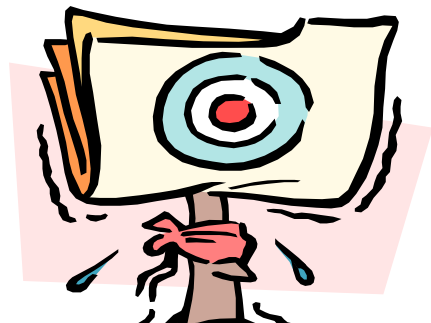
The Force Directed Graph plugin allows you to easily visualize hierarchical data. Each



Chat



Resources and Questions?



[Introduction to OAC Running on ADW](#)
Webcast Mar 6, 2019

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Vlami Home www.vlami.com Blog www.vlami.com/blog Prior OBIEE releases www.vlami.com/obiwebinars

OAC What's New Documentation <https://docs.oracle.com/en/cloud/paas/analytics-cloud/acsw/index.html#ACSWN-GUID-CFF90F44-BCEB-49EE-B40B-8D040F02D476>

Oracle Analytics Library with plugins and demos <https://www.oracle.com/solutions/business-analytics/data-visualization/library.html>

YouTube channel Oracle Analytics from SampleApp Team <https://www.youtube.com/user/EvolvingBI/videos>

YouTube video playlist on OAC 19.1.1 new features
https://www.youtube.com/playlist?list=PL6gBNP-Fr8KWl76eF_oDvHTAXy1qIO7S9