New Features in Oracle Analytics Cloud 19.1.1

Dan Vlamis & Cathye Pendley, Vlamis Software Solutions

@vlamissoftware, 816-781-2880

www.vlamis.com

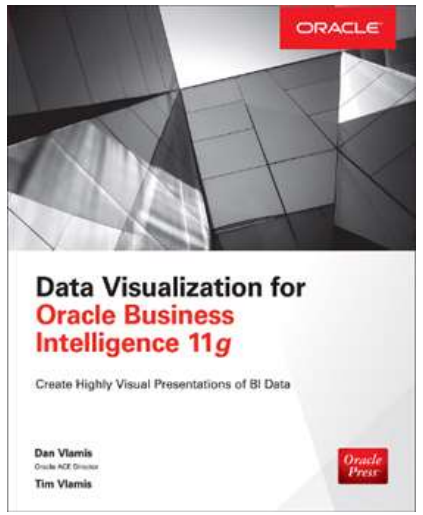
dvlamis@vlamis.com, @dvlamis
cpendley@vlamis.com, @Cathye_Pendley

Copyright © 2019, Vlamis Software Solutions, Inc.

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

ORACLE Gold Partner
Specialized
Oracle Business Analytics Cloud Platform



ORACLE ACE Director

ORACLE ACE

ORACLE EDUCATION RESELLER

ORACLE Gold Partner
Specialized
Oracle Business Intelligence Foundation Suite 11g

Copyright © 2019, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS

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

All listed on website at http://www.vlamis.com/obiwebinars/

- 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)

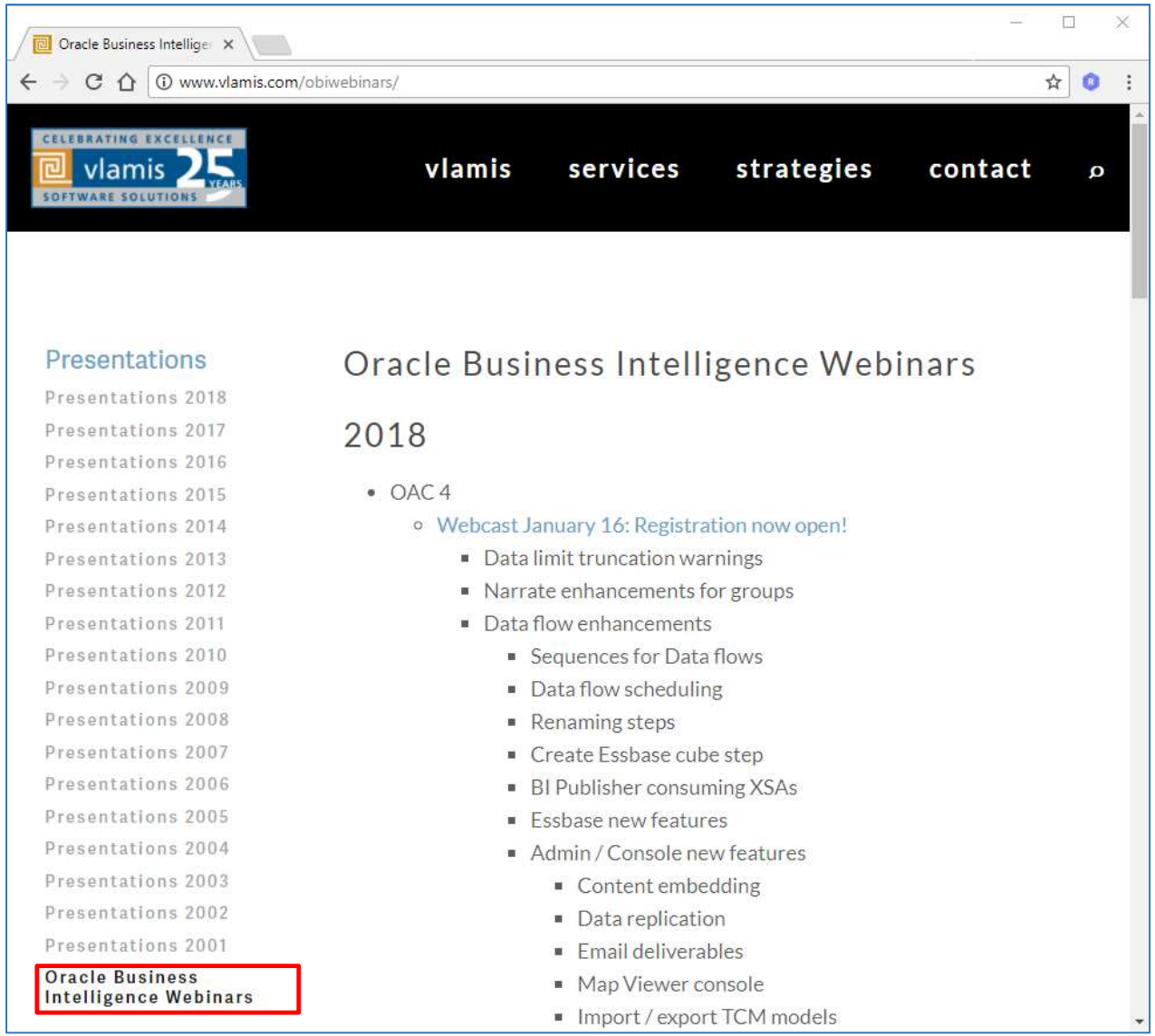
Introduction to OAC Running on ADW

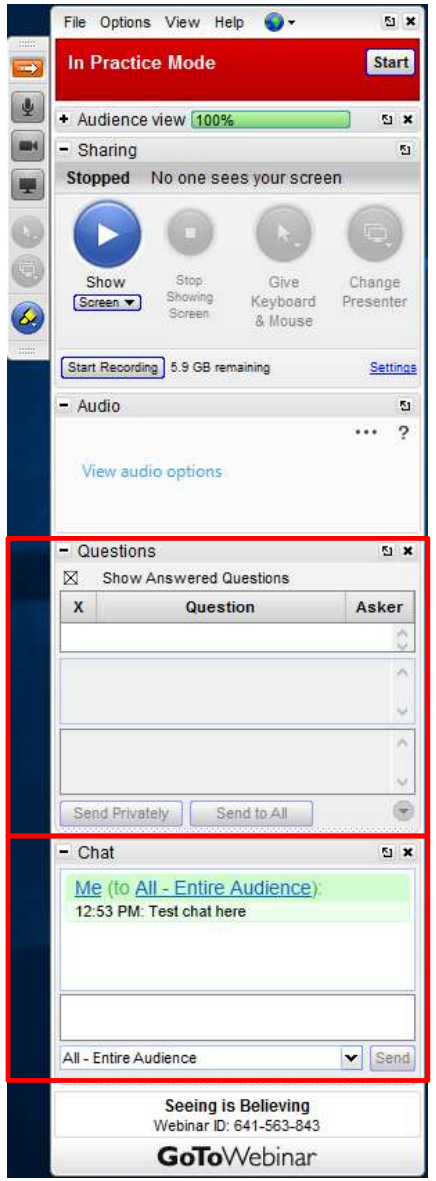
Webcast Mar 6, 2019

- 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

Copyright © 2019, Vlamis Software Solutions, Inc.

Use Questions or Chat or Questions to communicate





Copyright © 2019, Vlamis Software Solutions, Inc.

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

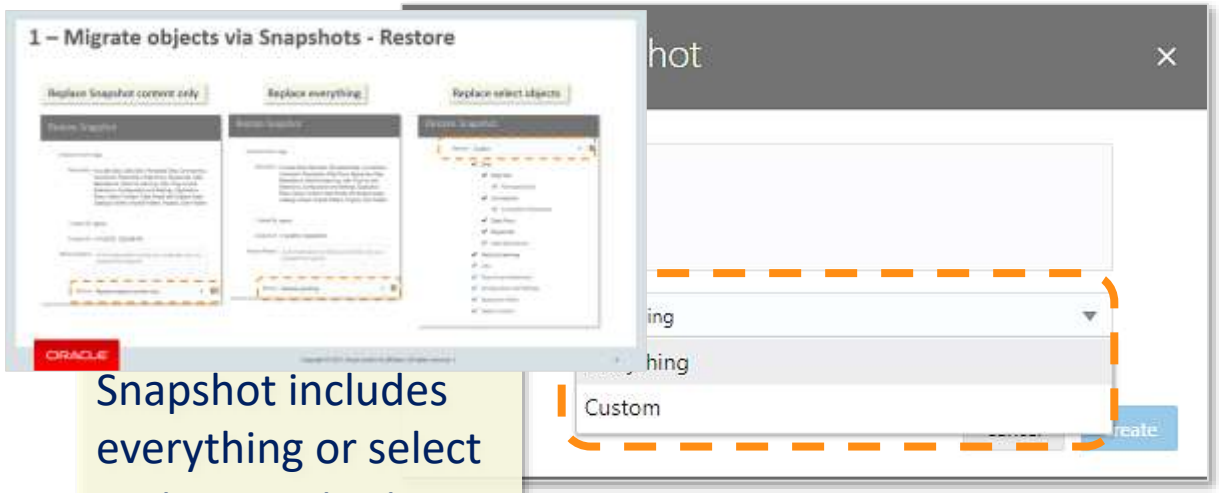
D. Essbase

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

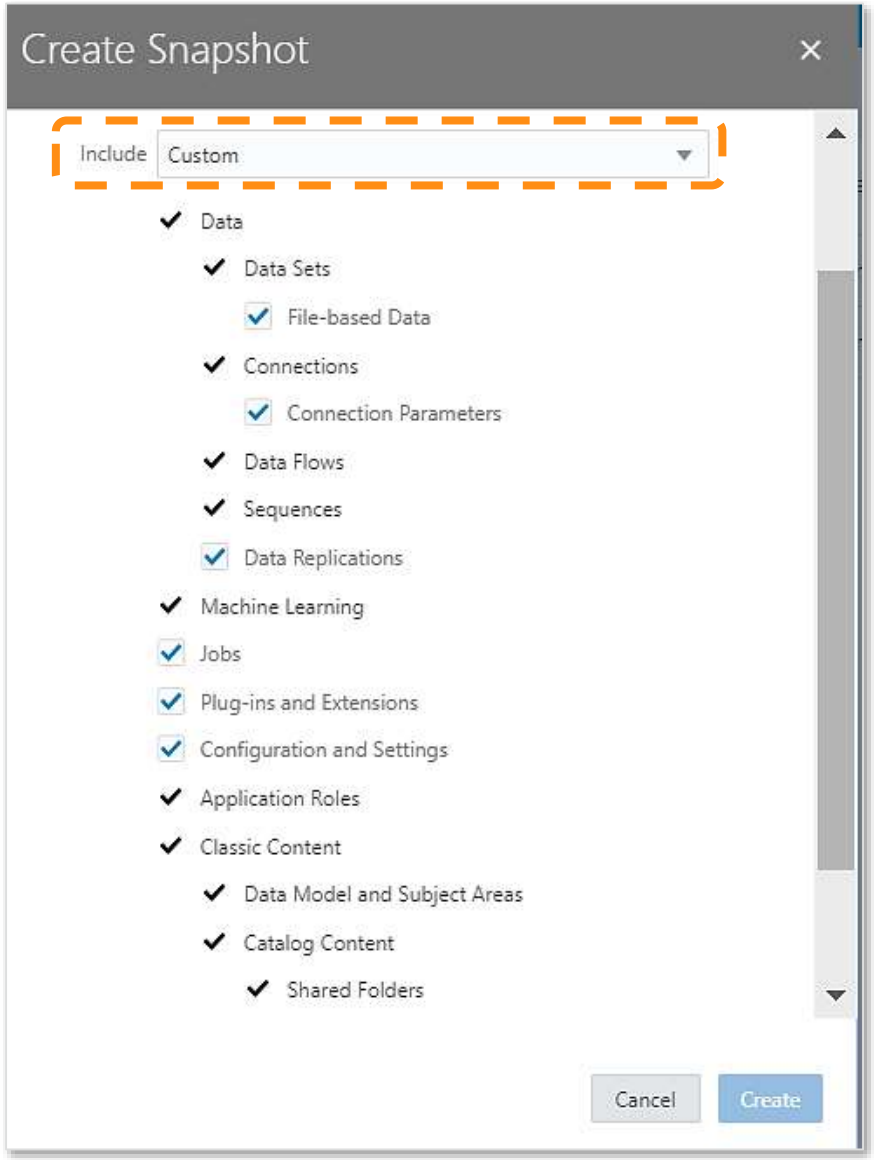
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

1 – Migrate objects between OAC instances-Create Snapshot



Snapshot includes everything or select custom content

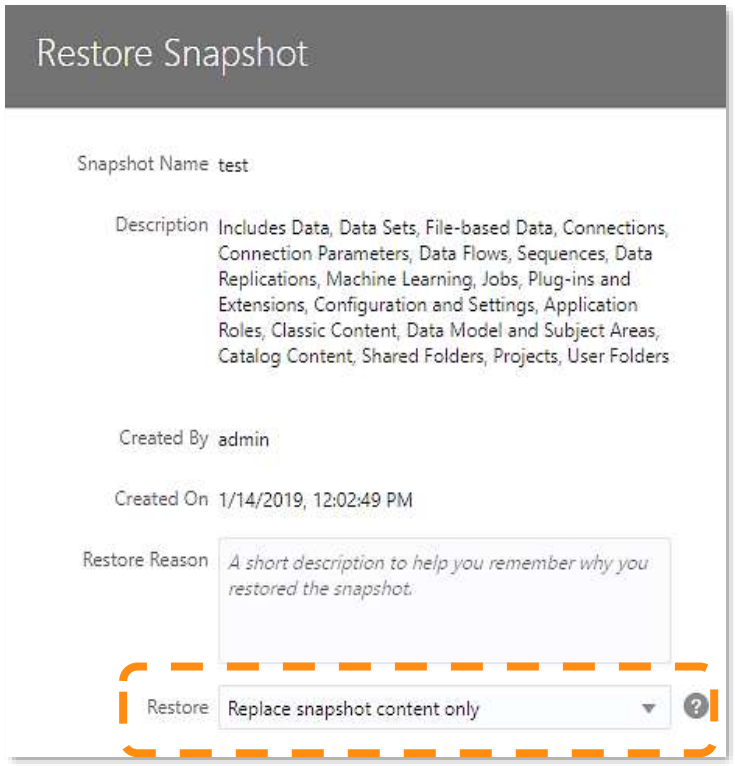
Custom select types of object to include in Snapshot



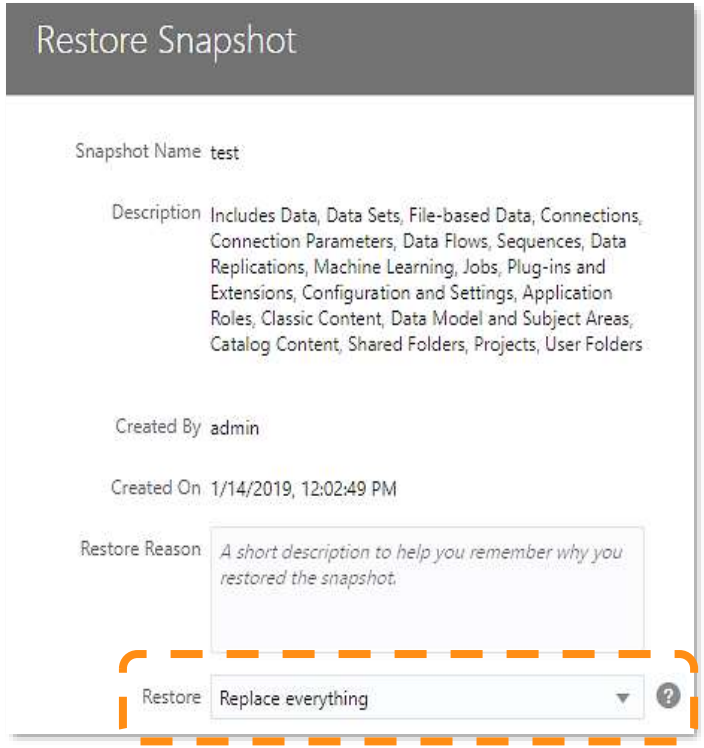
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

1 – Migrate objects via Snapshots - Restore

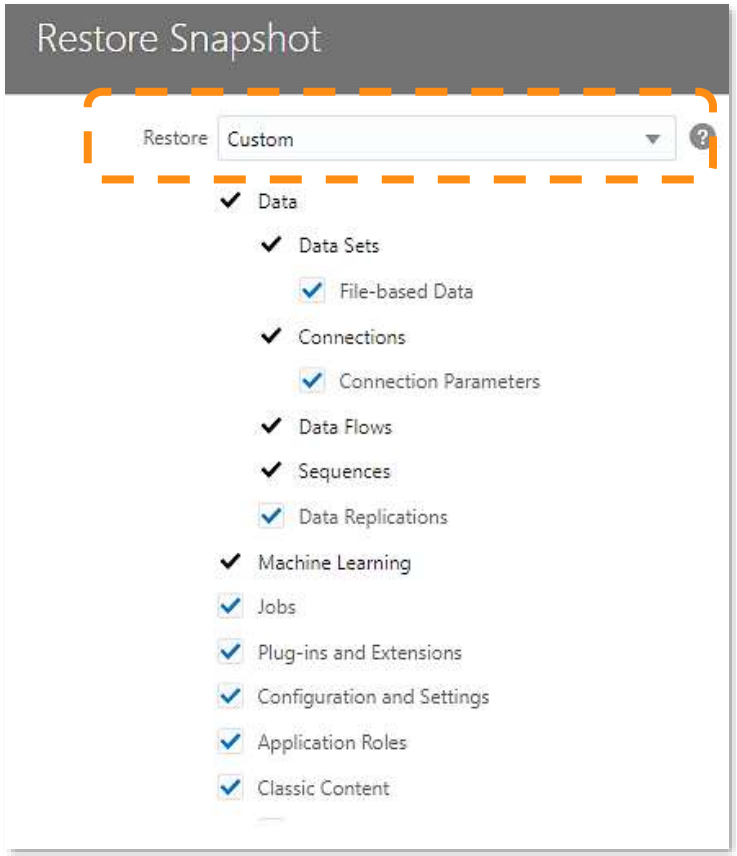
Replace Snapshot content only



Replace everything

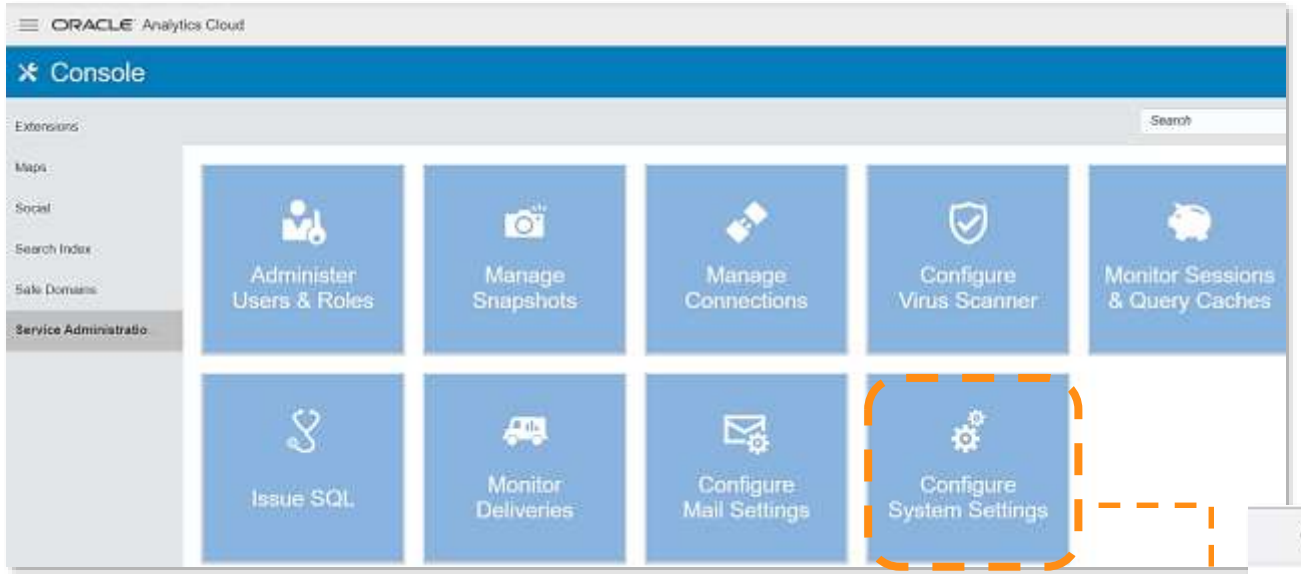


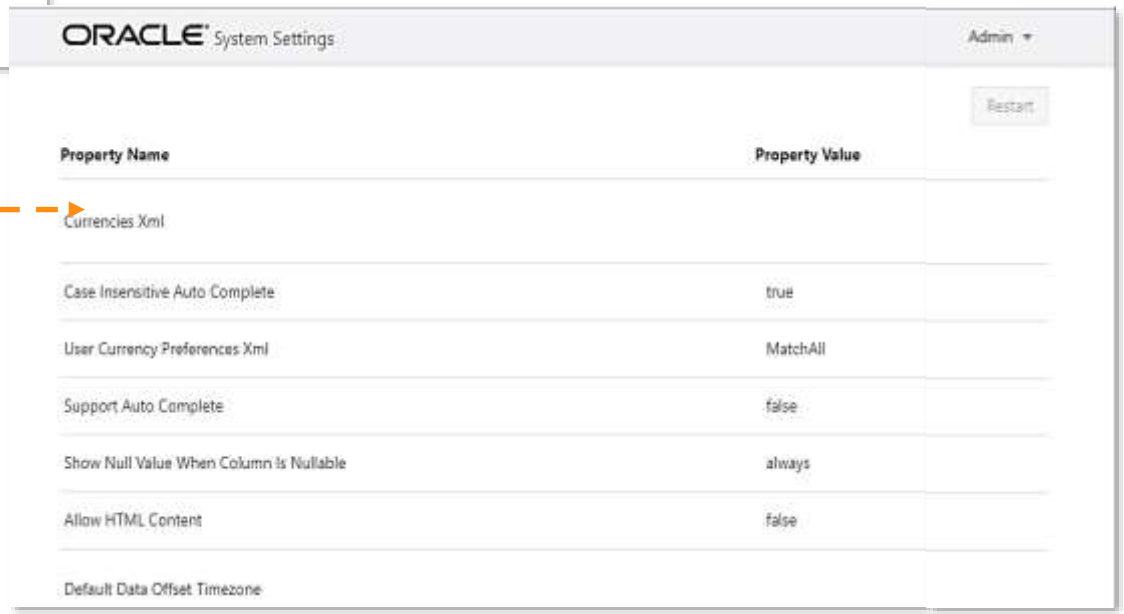
Replace select objects



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

2 – Configure System Settings



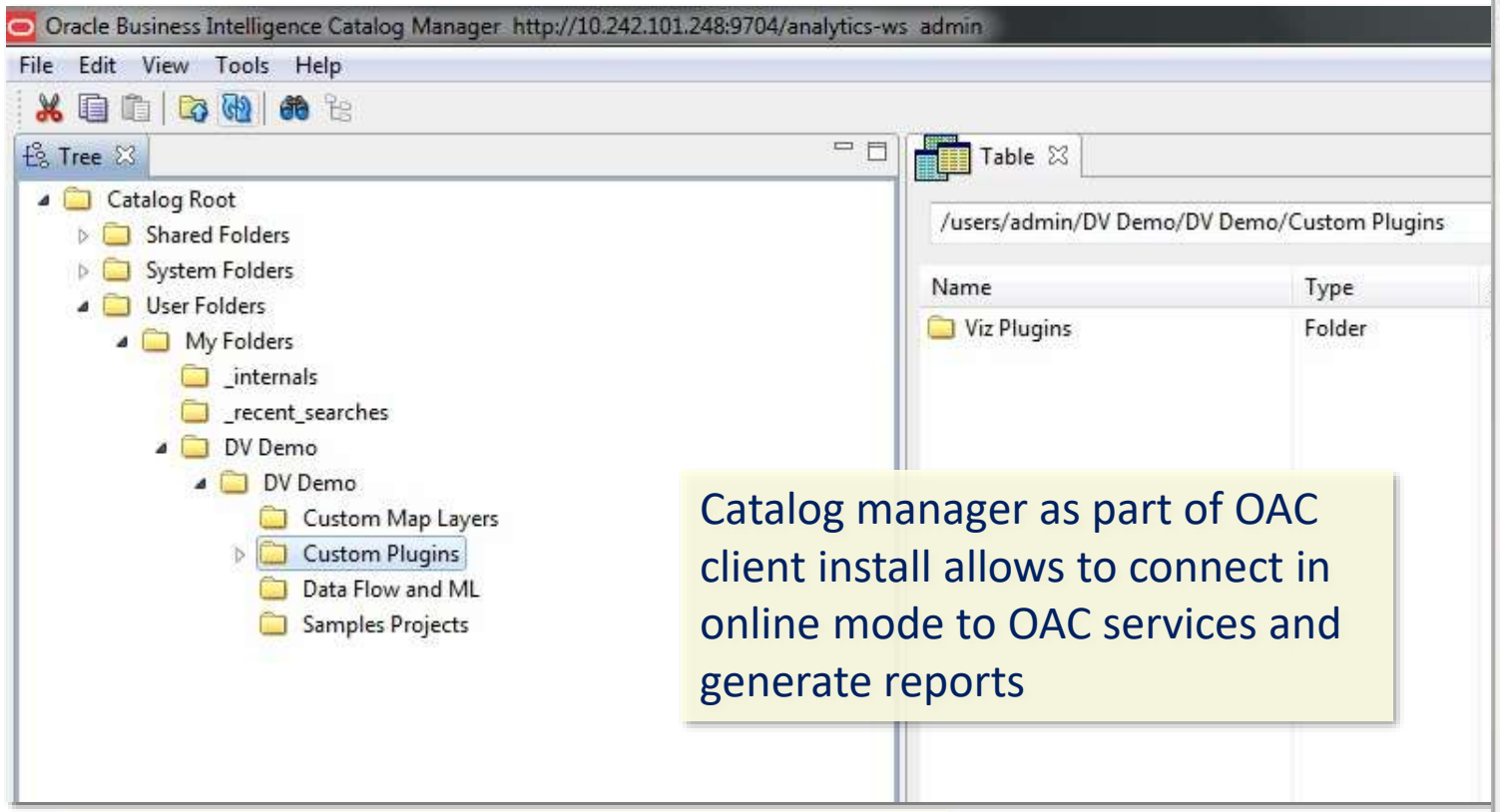


Launch System Settings from Console

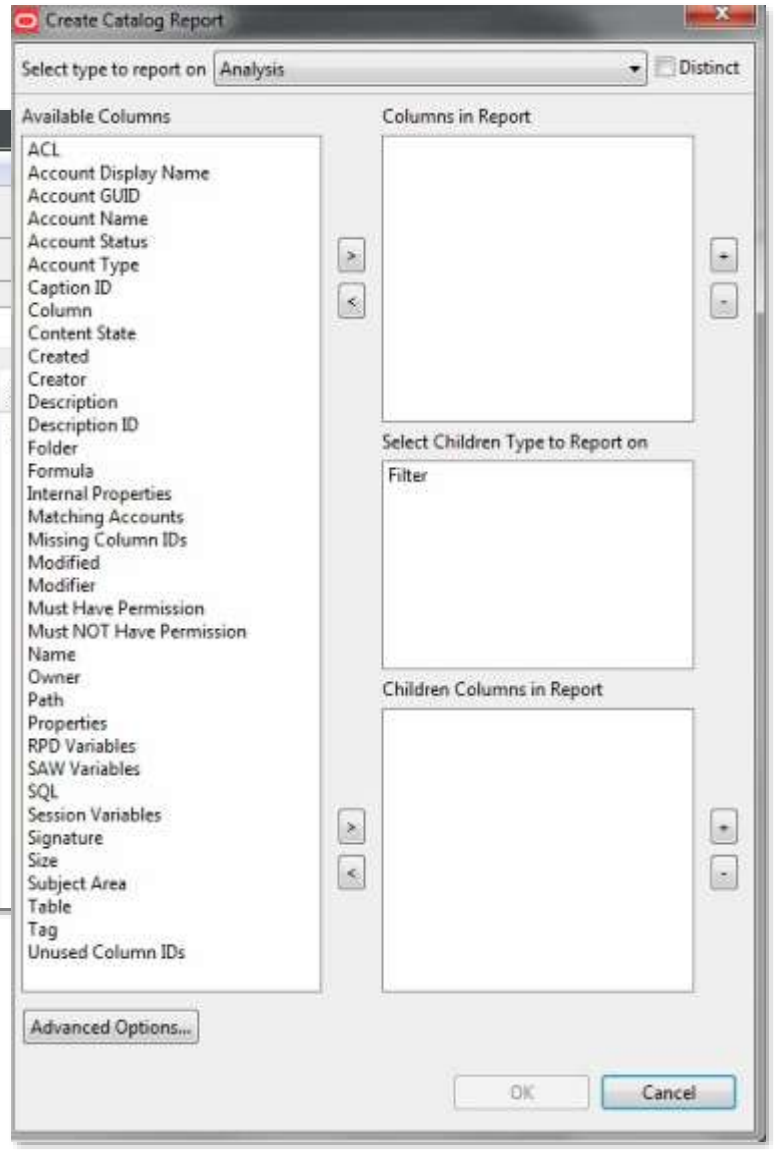
Edit parameters values for your system and restart services

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

4 – DSS/Data Prep Public Rest APIs

swagger http://slc07rmk.us.oracle.com:9704/datasetsvc/public/swagger Authorize Explore

DSS/Data Prep Swagger Public Spec …/datasetsvc/public/swagger.json

DSS/Data Prep Swagger Public Spec

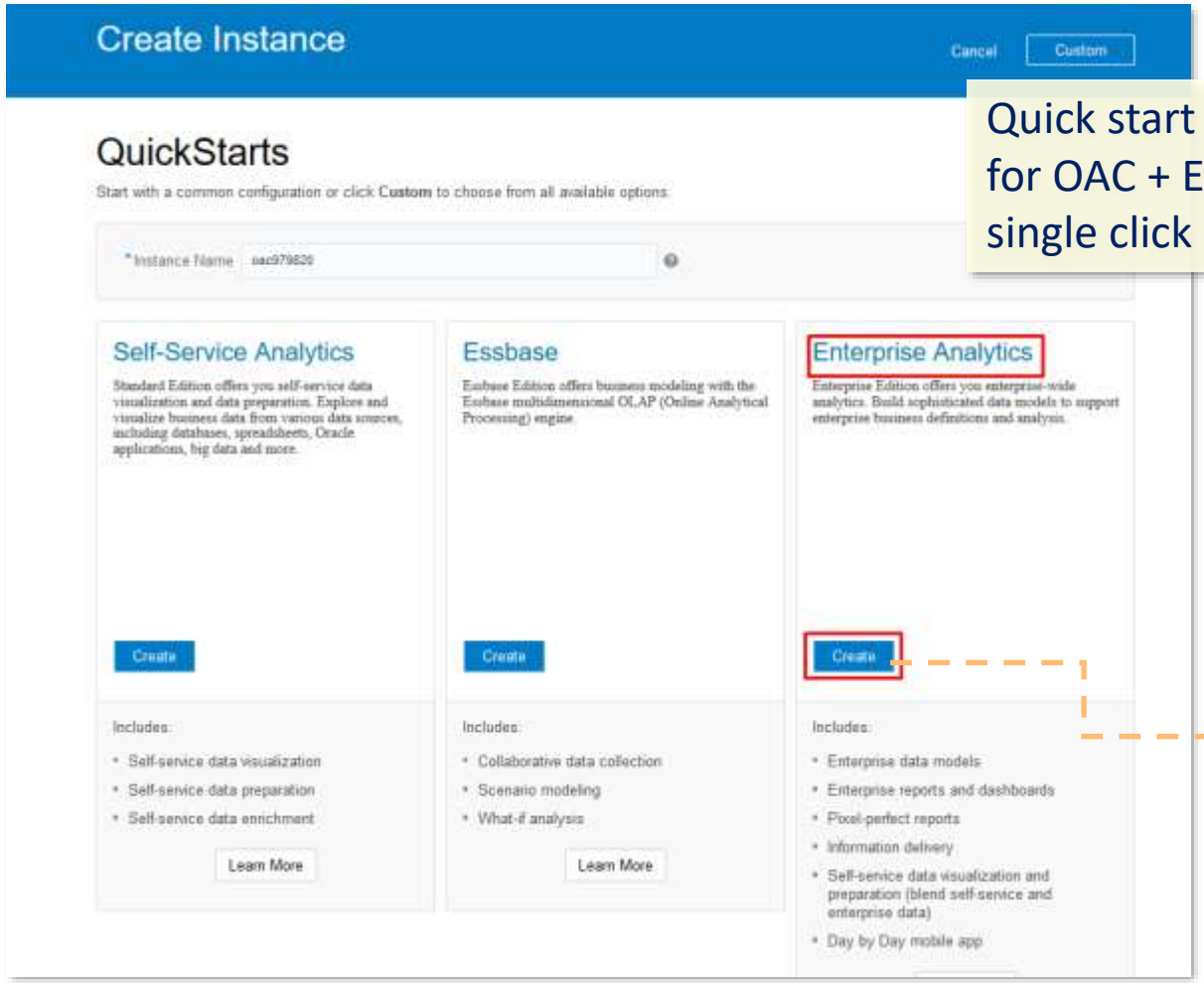
GET	/v4/connections	Returns a list of all connections
POST	/v4/connections	Create a connection with parameter json
DELETE	/v4/connections/{connection-uri}	Delete a connection
GET	/v4/connections/{connection-uri}	List information of a single connection
PUT	/v4/connections/{connection-uri}	Update the metadata 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 c…
GET	/v4/connections/{connection-uri}/objects{path-separator}{object-id}	Get replication runtime details for a target cloud replication connecti…
PUT	/v4/connections/{connection-uri}/objects{path-separator}{object-id}	Update replication runtime details for a target cloud replication connecti…
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
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

50 + available DSS REST API Calls in OAC

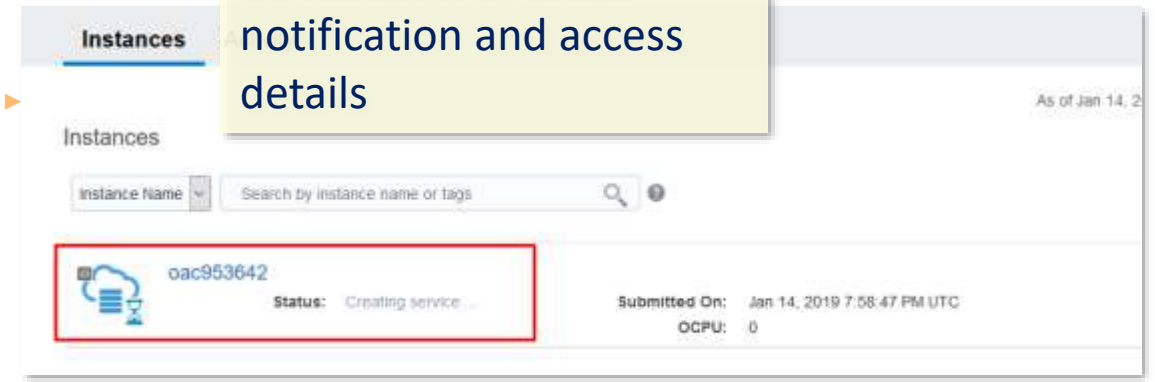
ORACLE

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

5 – Quick Start Templates



Quick start templates for OAC + Essbase- single click deployment

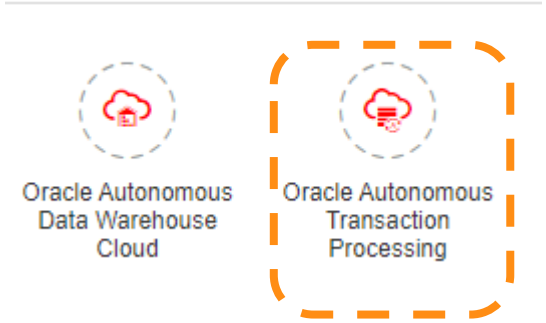


Deployment times under 30 minutes w/email notification and access details

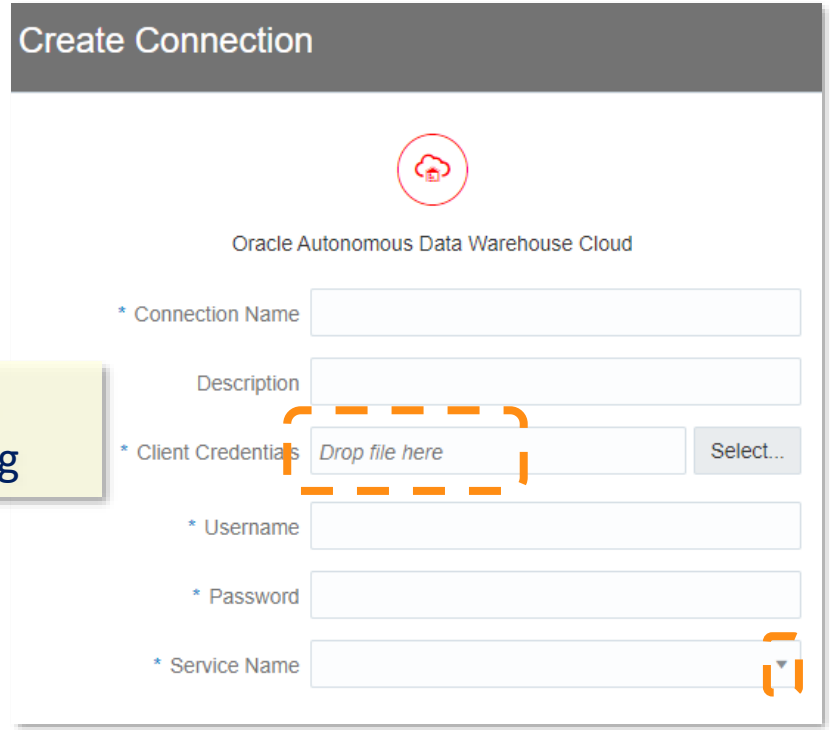
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

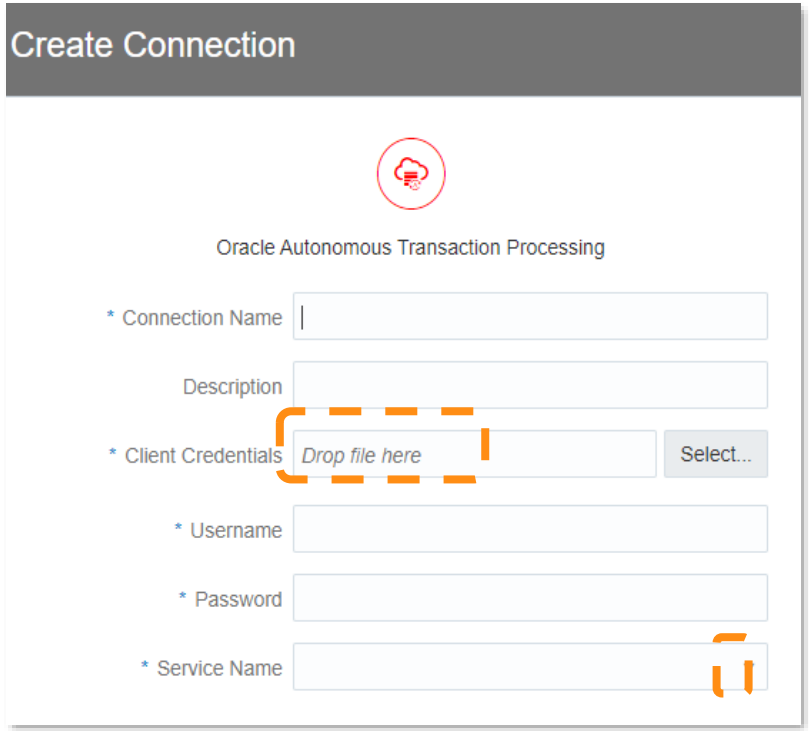
6 – Easier to Create ADW and ATP DB Connections

Upload wallet file



Oracle Autonomous Transaction Processing

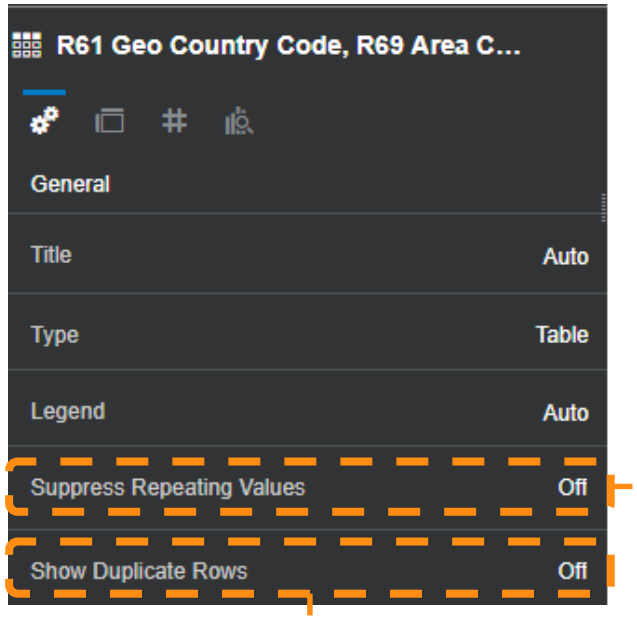




No more need to open wallet file details manually :
- Host and port # are populated automatically
- Drop down on service name

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

7 – Suppress Repeating Values, Summarize Duplicates



Suppresses repeating values

Show Duplicate Rows (dataset grain)

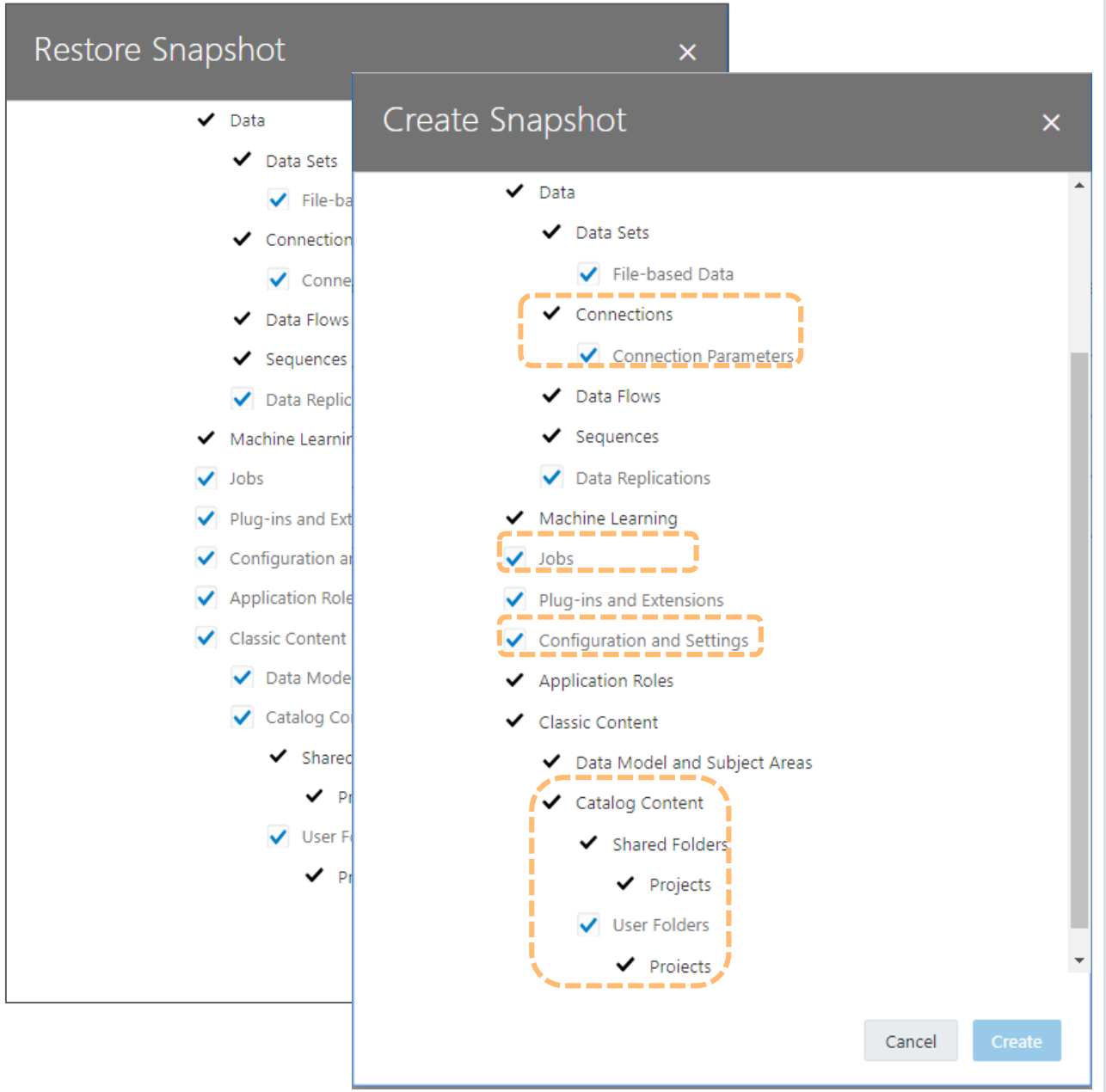
Product Category	Product Sub Category	Sales
Furniture	Bookcases	370,475.59
	Chairs & Chairmats	1,046,332.70
	Office Furnishings	445,605.98
	Tables	1,030,879.05
Office Supplies	Appliances	431,437.26
	Binders and Binder Accessories	585,361.54
	Envelopes	126,645.07
	Labels	23,220.91
	Paper	251,643.77
	Pens & 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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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**

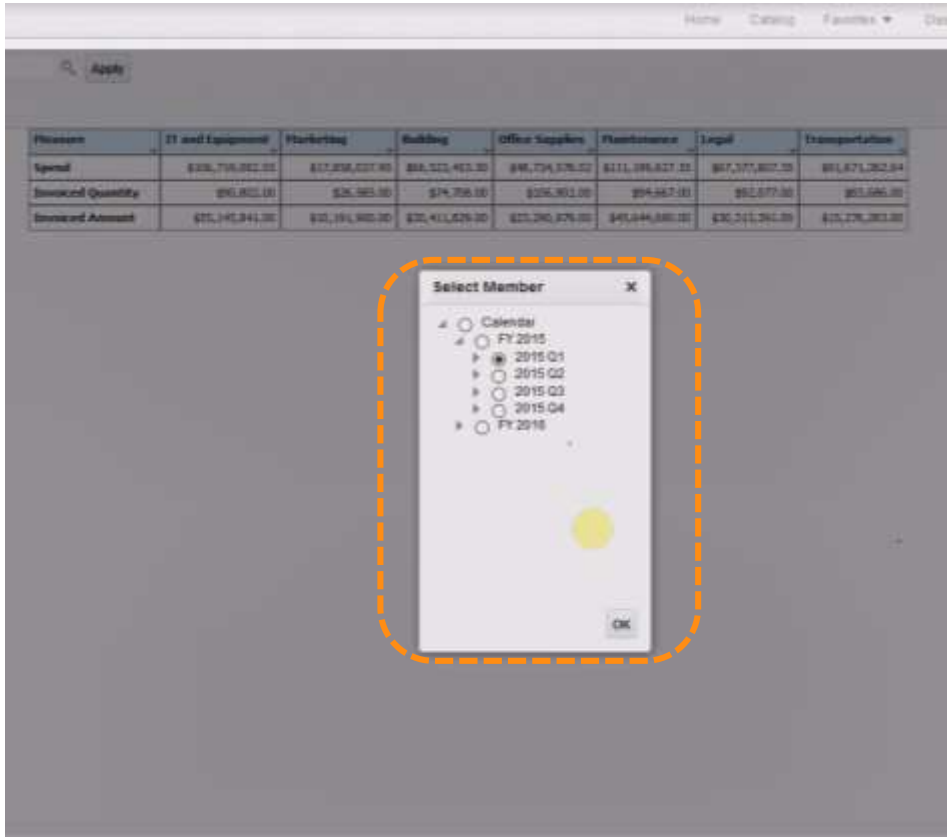


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

9-BIP : Essbase POV Parameter Support

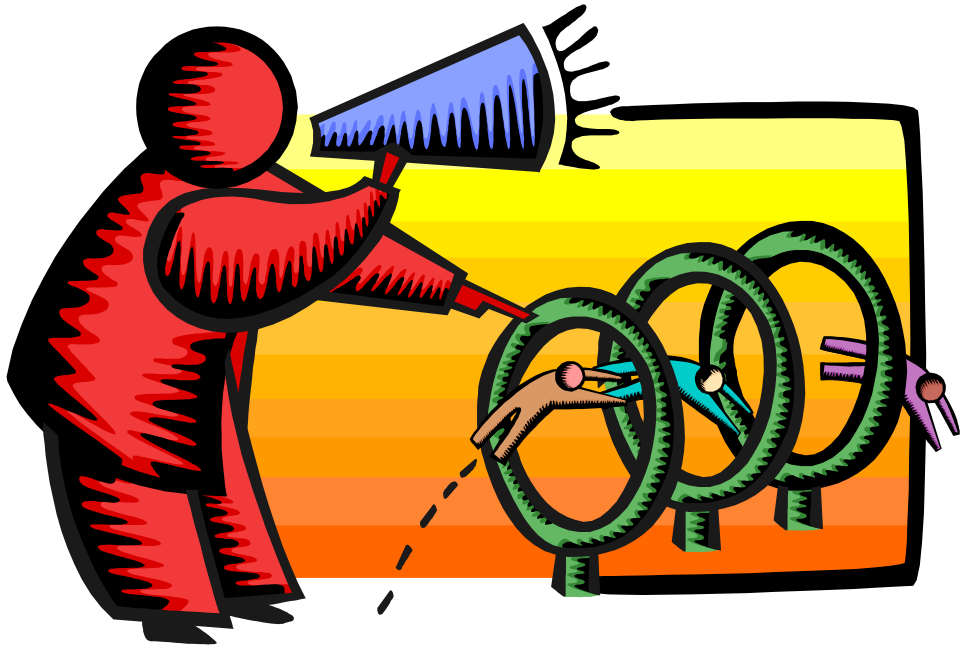
- Now you can design your report against Essbase using POV as parameter. The POV parameter allows to select hierarchical member dimensions in the report

- Earlier you could create a report against Essbase data source using MDX query with POV member dimension as static selection.



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Demo OAC BI Features



Copyright © 2019, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE
vlamis 25 YEARS
SOFTWARE SOLUTIONS

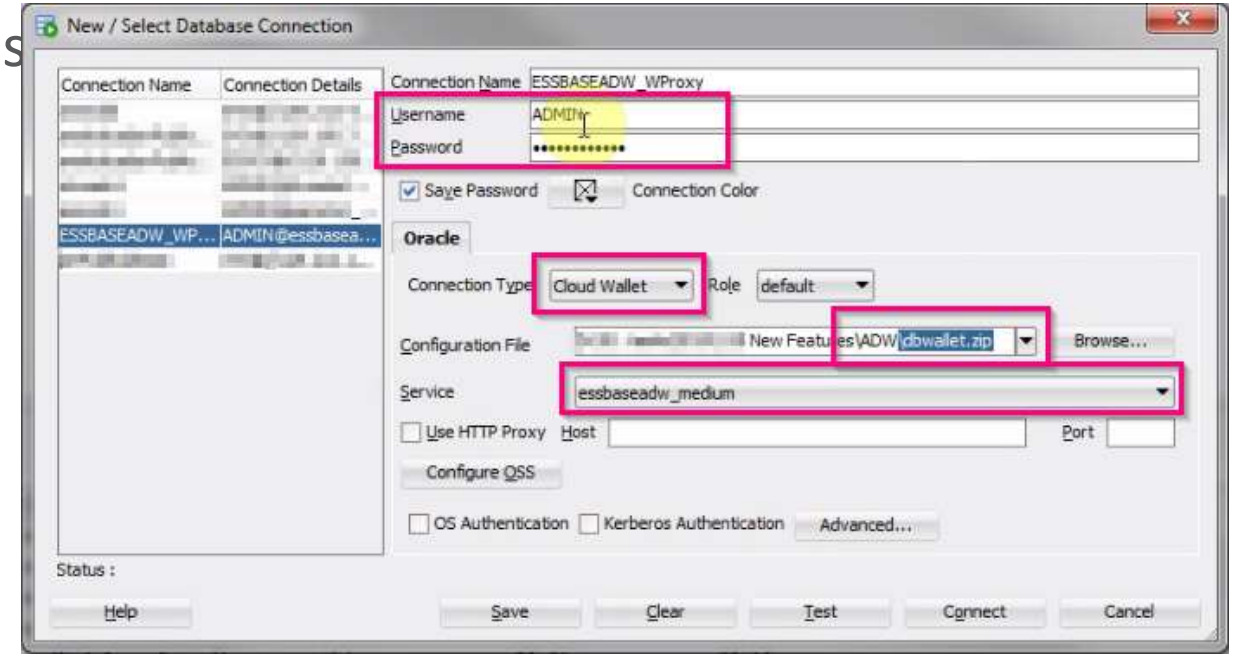
OAC 5.1 – Essbase Features Overview

- 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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

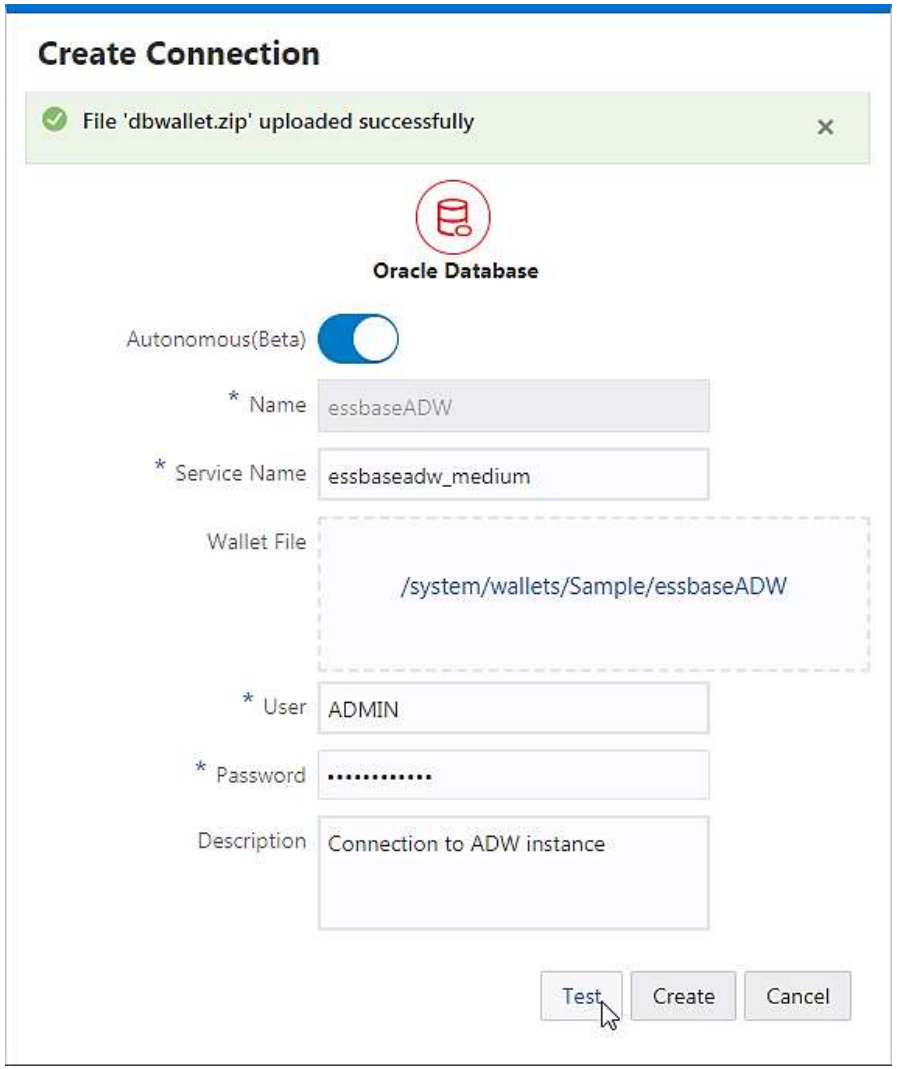
Oracle Autonomous Database support

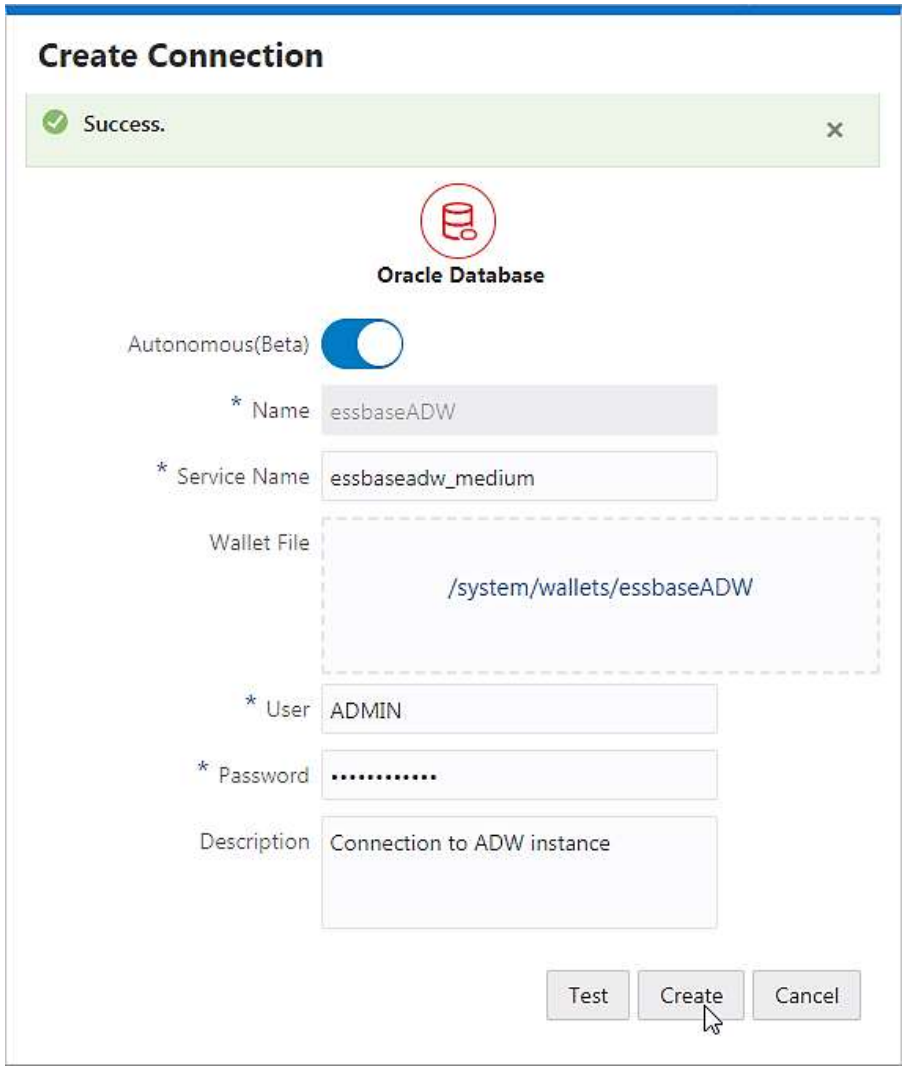
- Support OAC Essbase to connect to an Oracle Autonomous Data Warehouse (ADW) instance.
- Support uploading of wallet files for defining connection information to ADW
- Ability to connect to multiple ADW instances
- Defined using the Connections and Data source constructs
- Ability to
  - Create data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



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

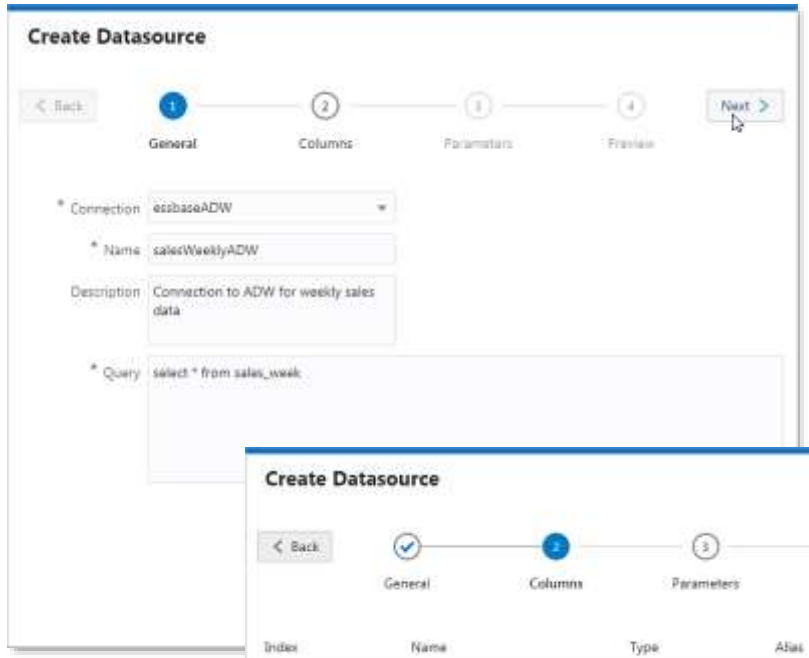
Test and Create Connection

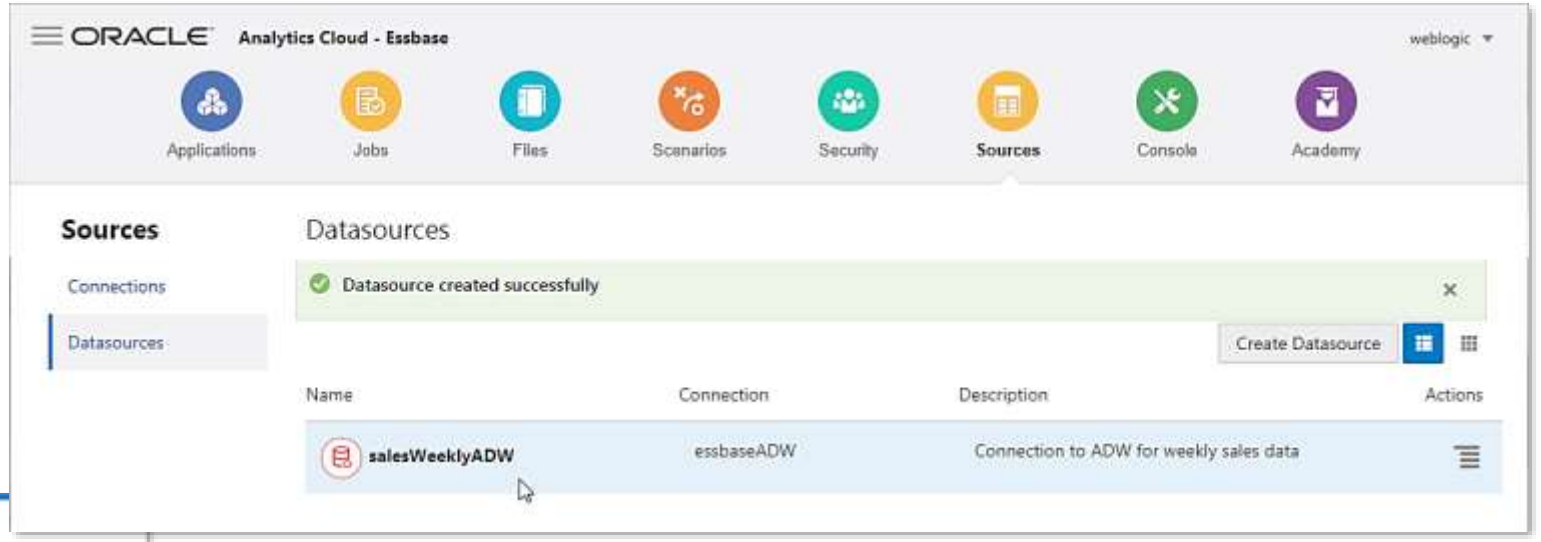


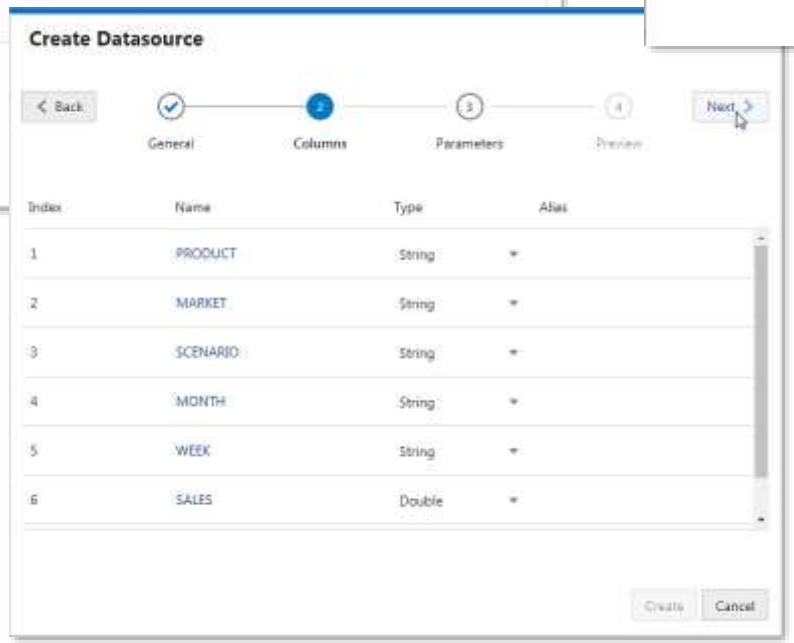


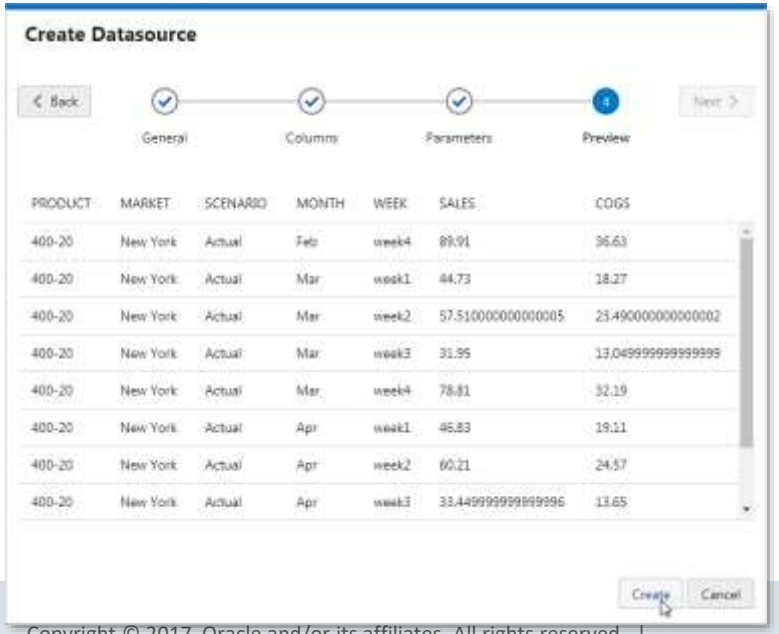
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Create Data source



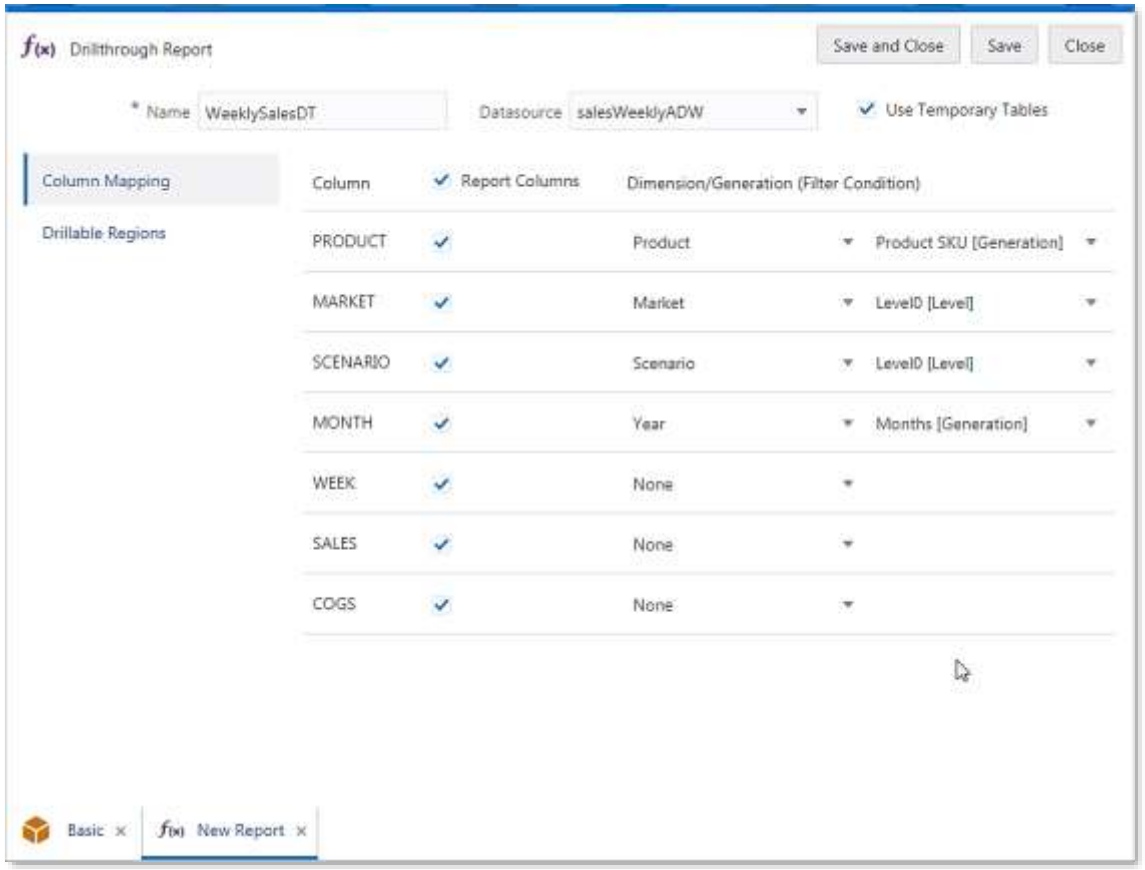


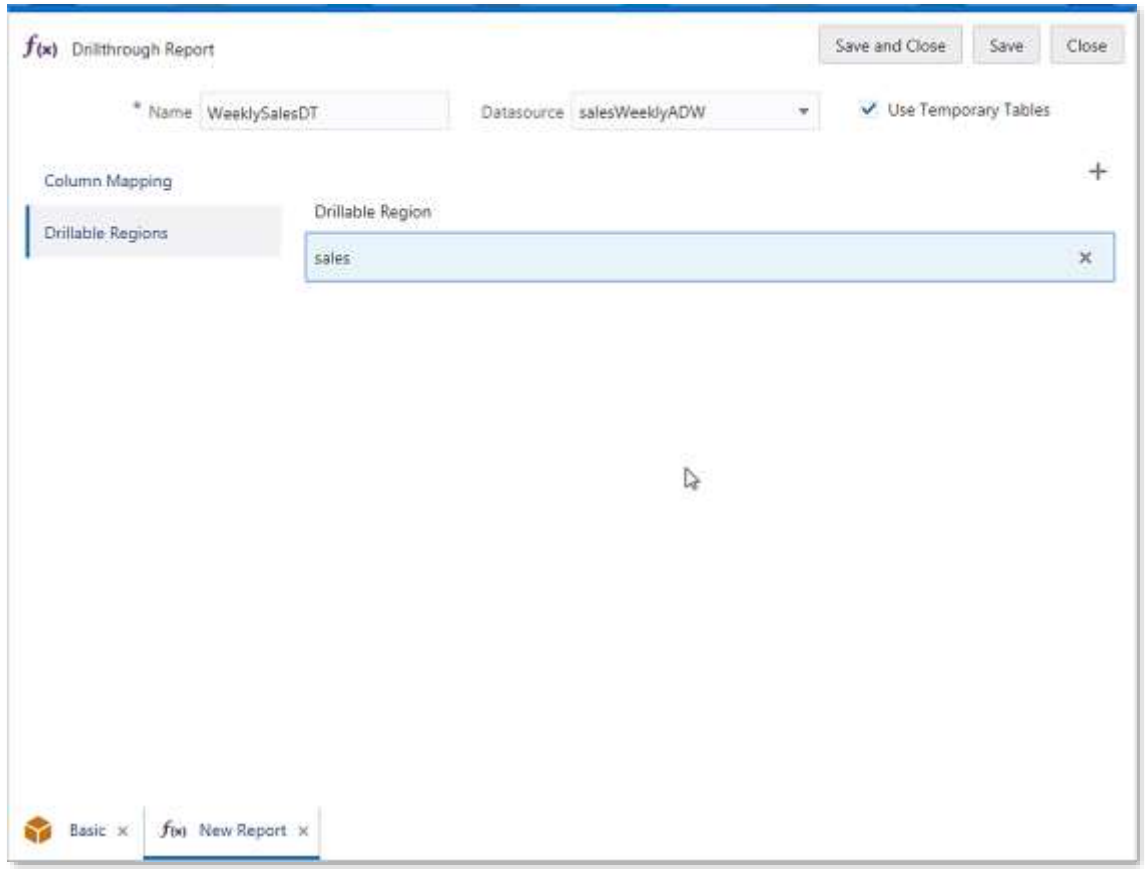




Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Define Drill Thru report





Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Drill Thru into details from Smart View back to ADW

C3 | 678

	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							

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Multi Cell Drill Thru

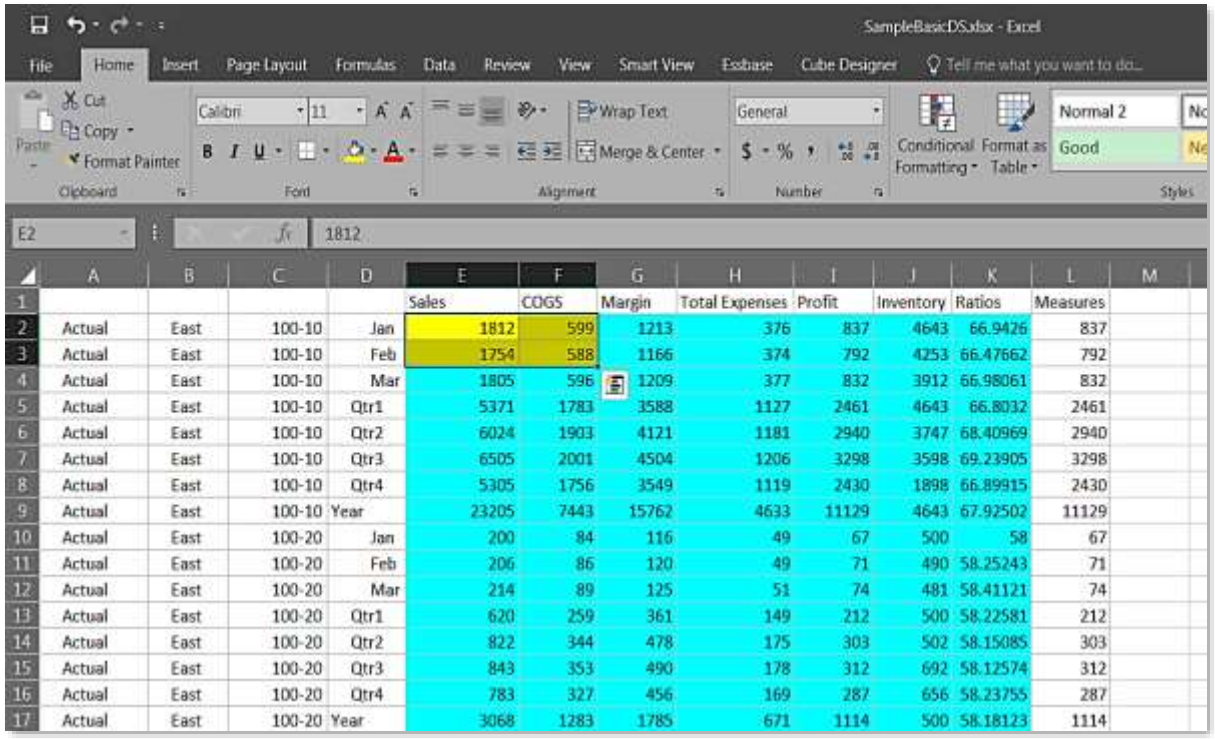
- Ability to select multiple ranges to perform Drill Thru
- Drill thru cells can be:
  - Symmetric selection of cells – same hierarchy (non-recursive)
  - Symmetric selection of cells – same hierarchy (recursive)
  - Symmetric selection of cells – same hierarchy (Level0)
  - Asymmetric selection of cells
- 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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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')
```



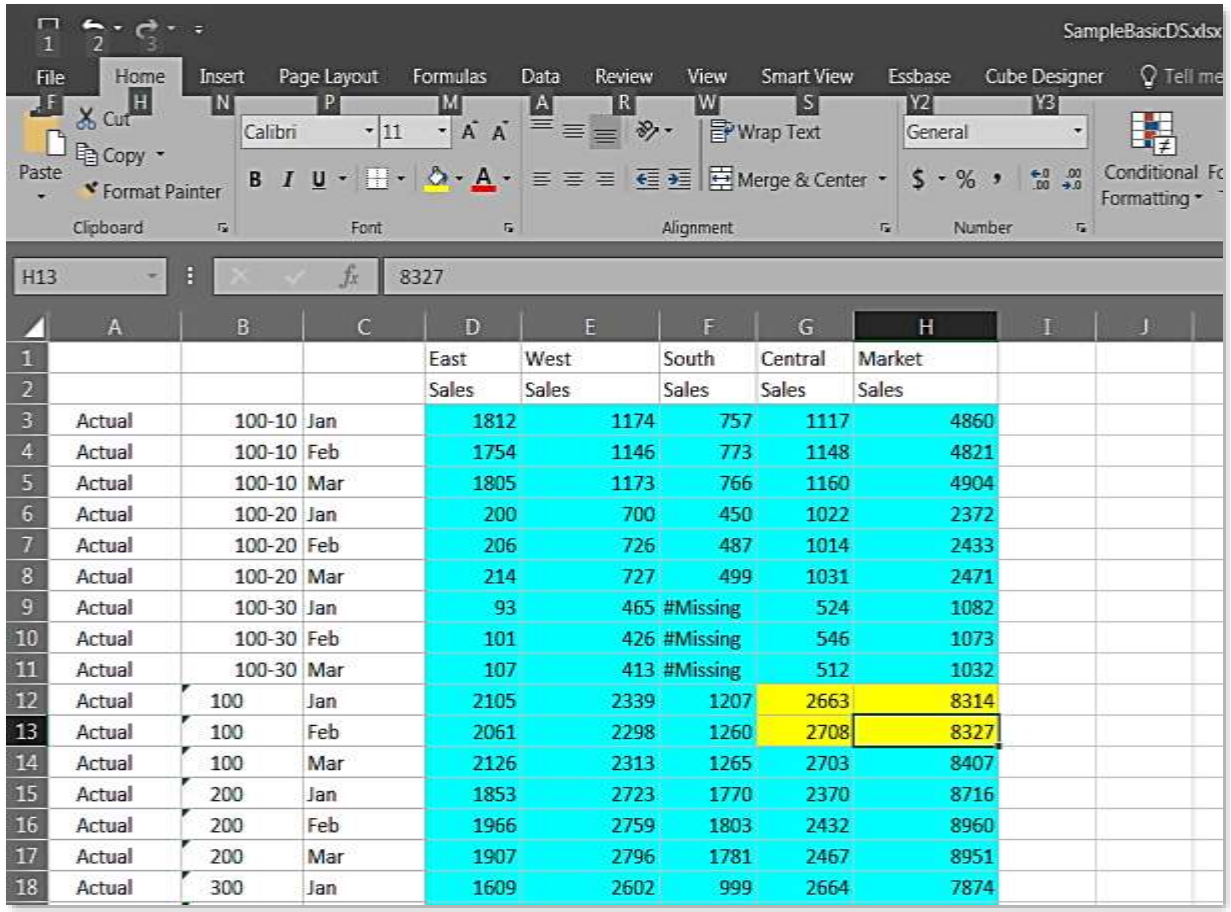
	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Sales	COGS	Margin	Total Expenses	Profit	Inventory	Ratios	Measures	
2	Actual	East	100-10	Jan	1812	599	1213	376	837	4643	66.9426	837	
3	Actual	East	100-10	Feb	1754	588	1166	374	792	4253	66.47662	792	
4	Actual	East	100-10	Mar	1805	596	1209	377	832	3912	66.98061	832	
5	Actual	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	

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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’)

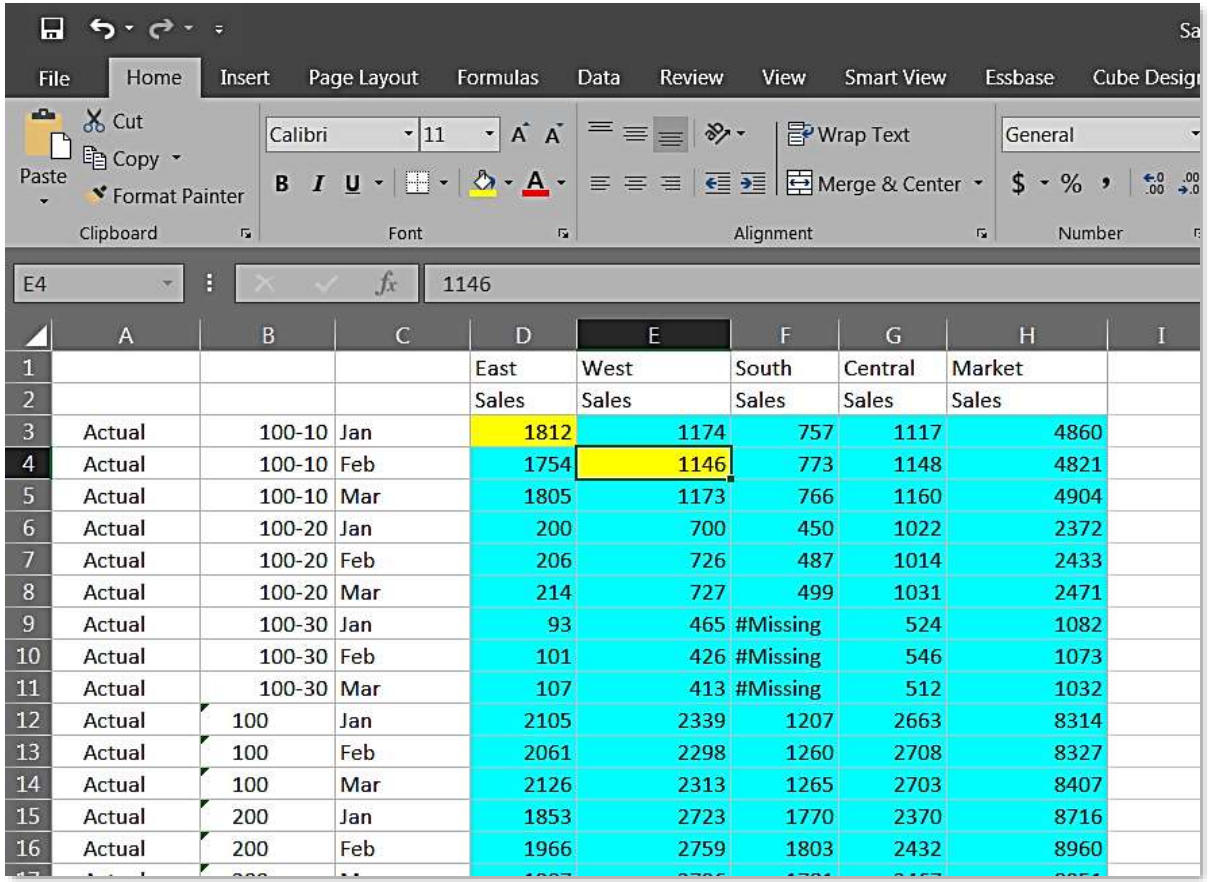


	A	B	C	D	E	F	G	H
1				East	West	South	Central	Market
2				Sales	Sales	Sales	Sales	Sales
3	Actual	100-10	Jan	1812	1174	757	1117	4860
4	Actual	100-10	Feb	1754	1146	773	1148	4821
5	Actual	100-10	Mar	1805	1173	766	1160	4904
6	Actual	100-20	Jan	200	700	450	1022	2372
7	Actual	100-20	Feb	206	726	487	1014	2433
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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Asymmetric selection of cells

- Ability to select multiple cells which are not contiguous

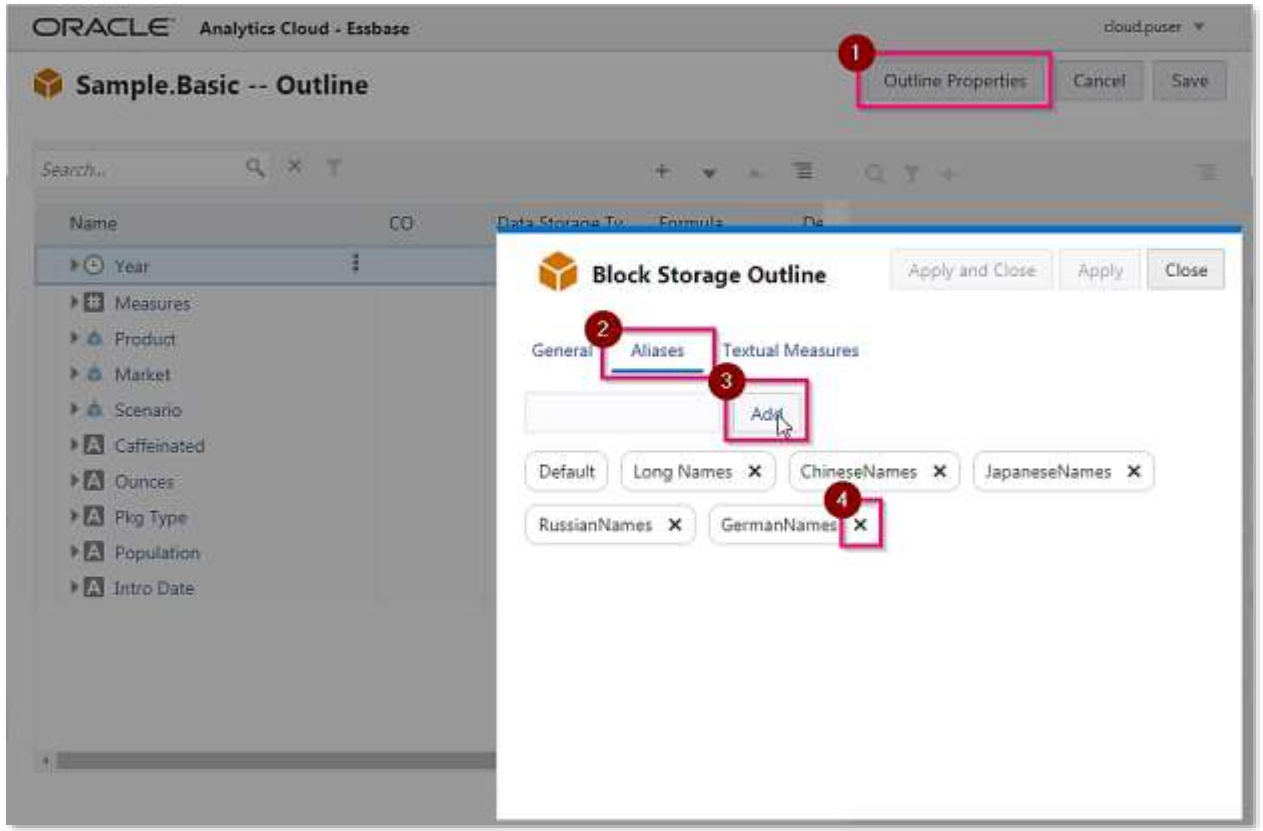


	A	B	C	D	E	F	G	H	I
1				East	West	South	Central	Market	
2				Sales	Sales	Sales	Sales	Sales	
3	Actual	100-10	Jan	1812	1174	757	1117	4860	
4	Actual	100-10	Feb	1754	1146	773	1148	4821	
5	Actual	100-10	Mar	1805	1173	766	1160	4904	
6	Actual	100-20	Jan	200	700	450	1022	2372	
7	Actual	100-20	Feb	206	726	487	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	

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Manage Alias Tables

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



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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.

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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.

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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
```

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

@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
```

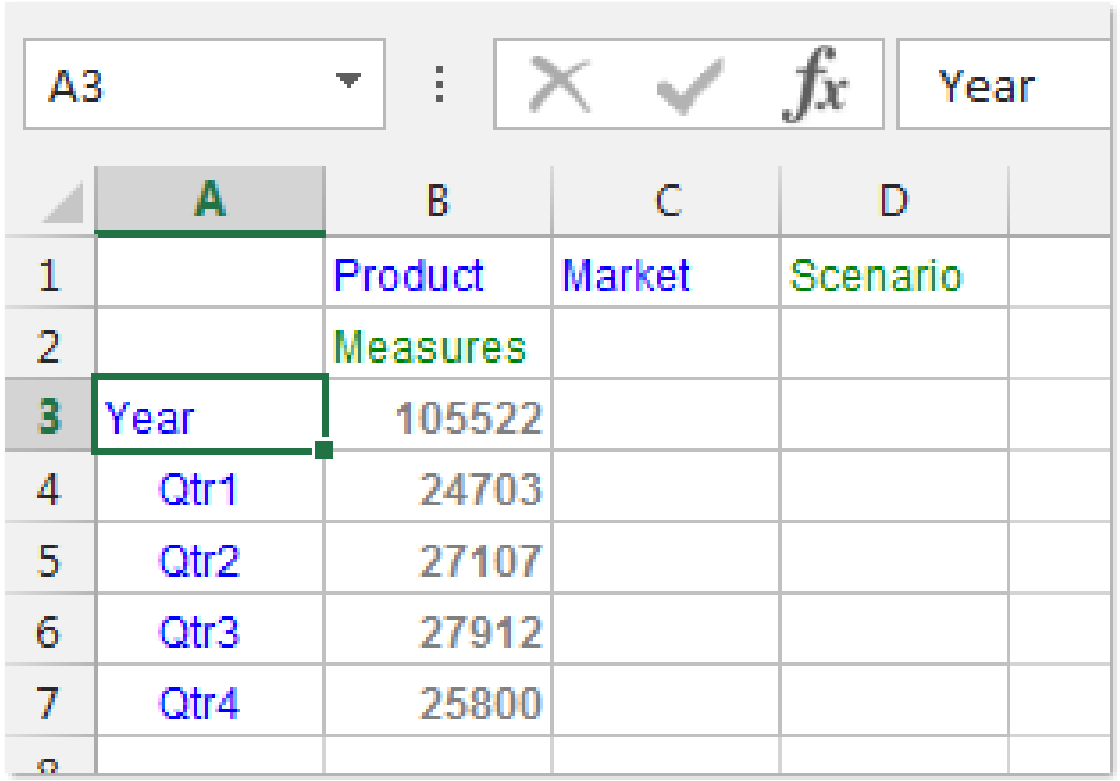
E21

	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					

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

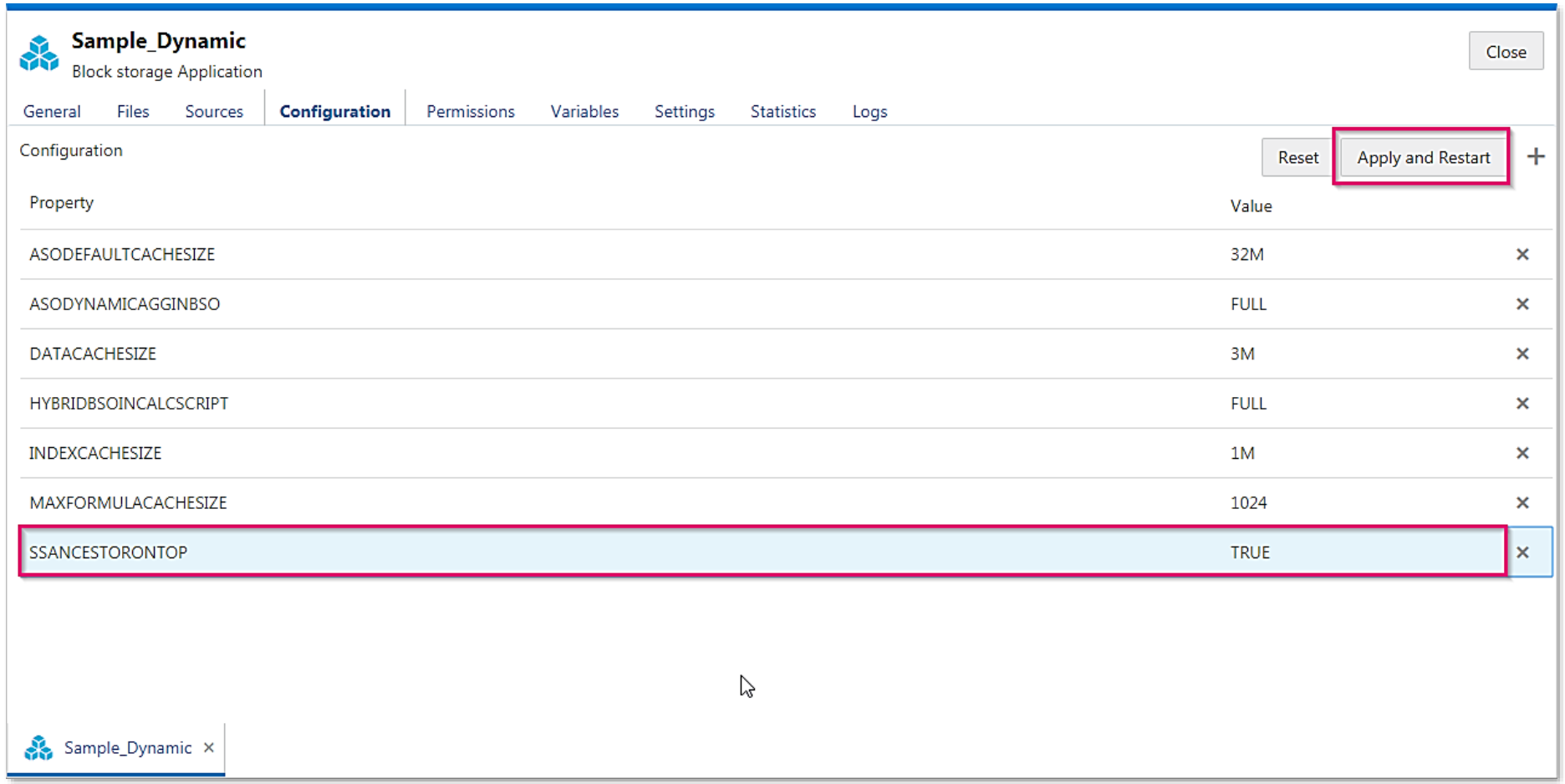
Ancestor on Top

- 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



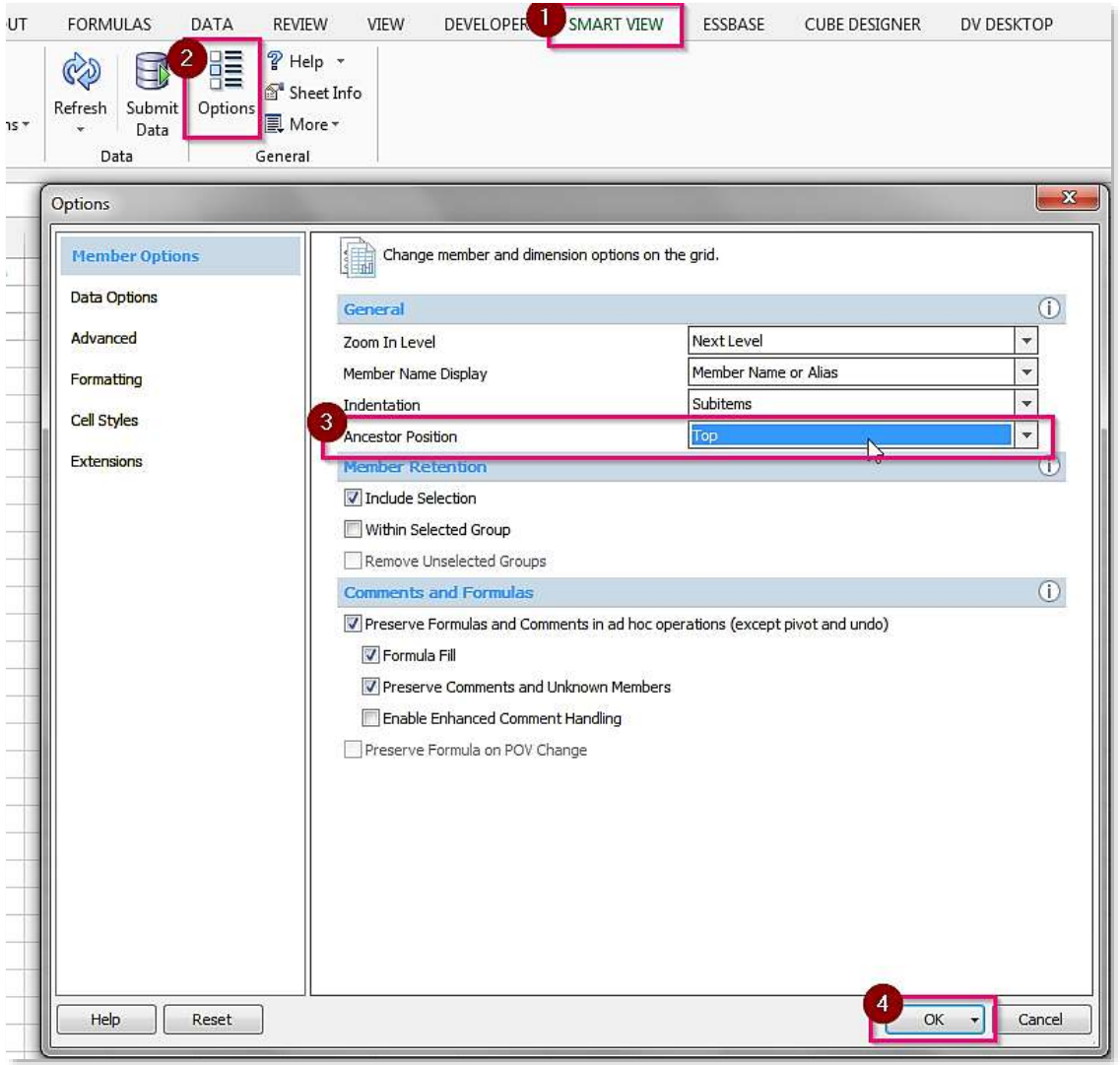
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Set the Application configuration parameter



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

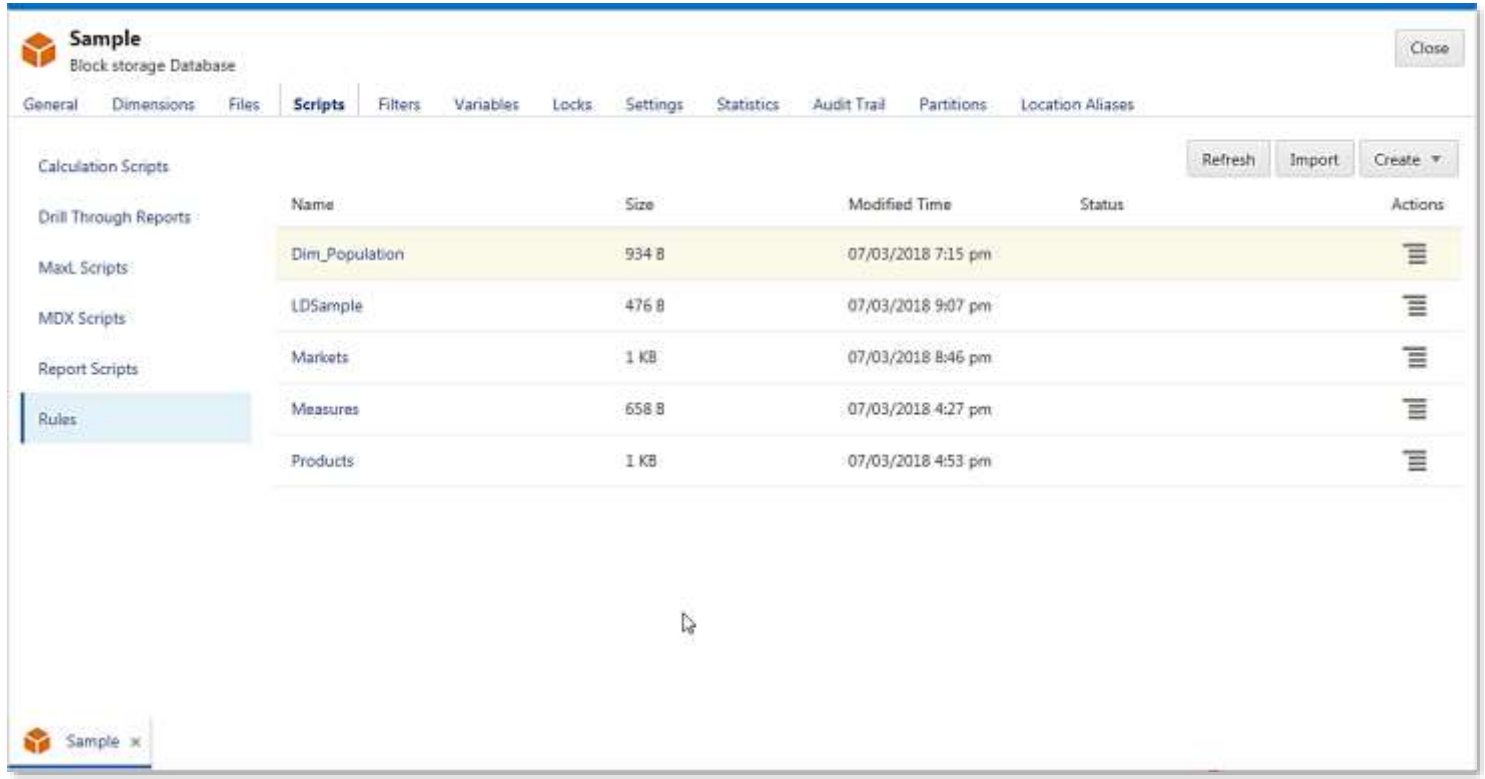
Set the Smart View property



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Auto Generation of Aggregate Views

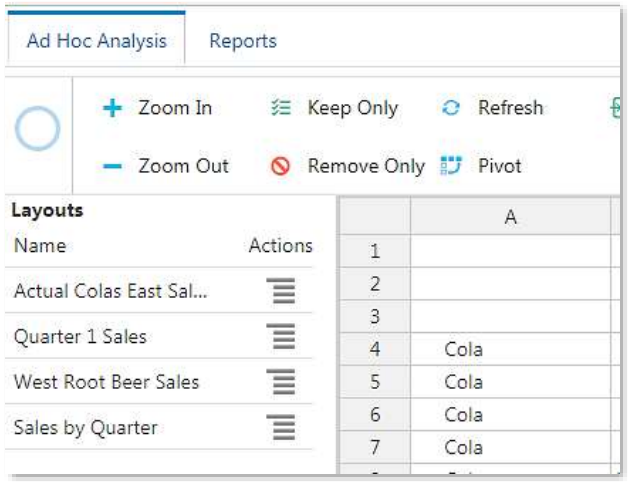
- New Editor allows Preview of Data while creating rules file
- Can use connections and data sources created in the Web UI
- Define Dim Build and Data Load Rules
- Preview can be done from either Data Source or File

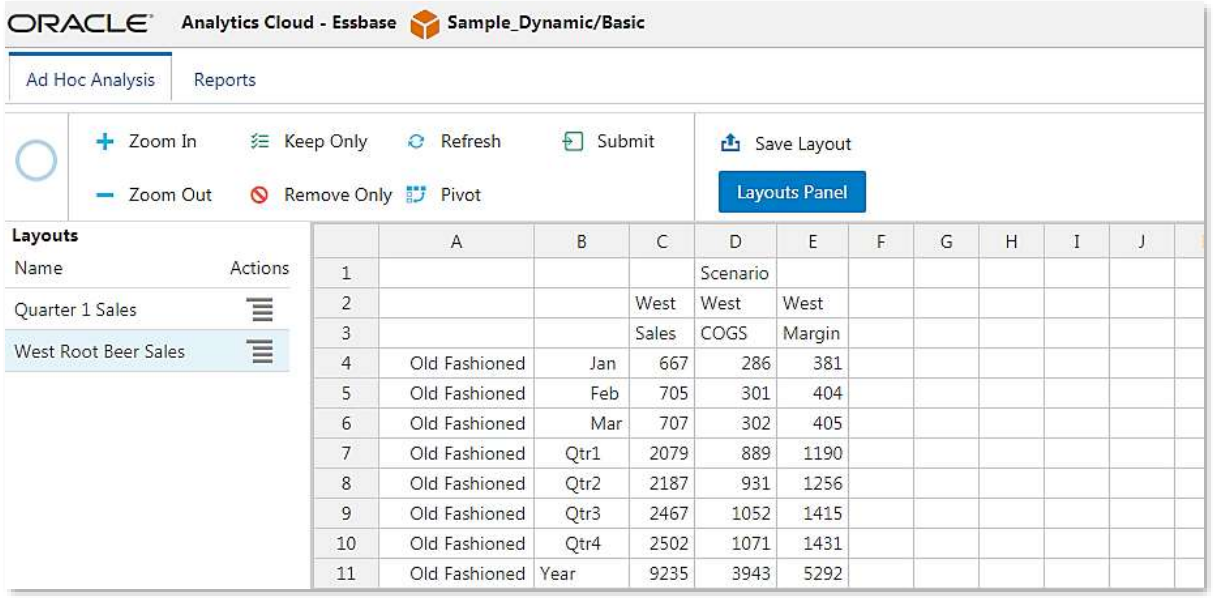


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Layouts

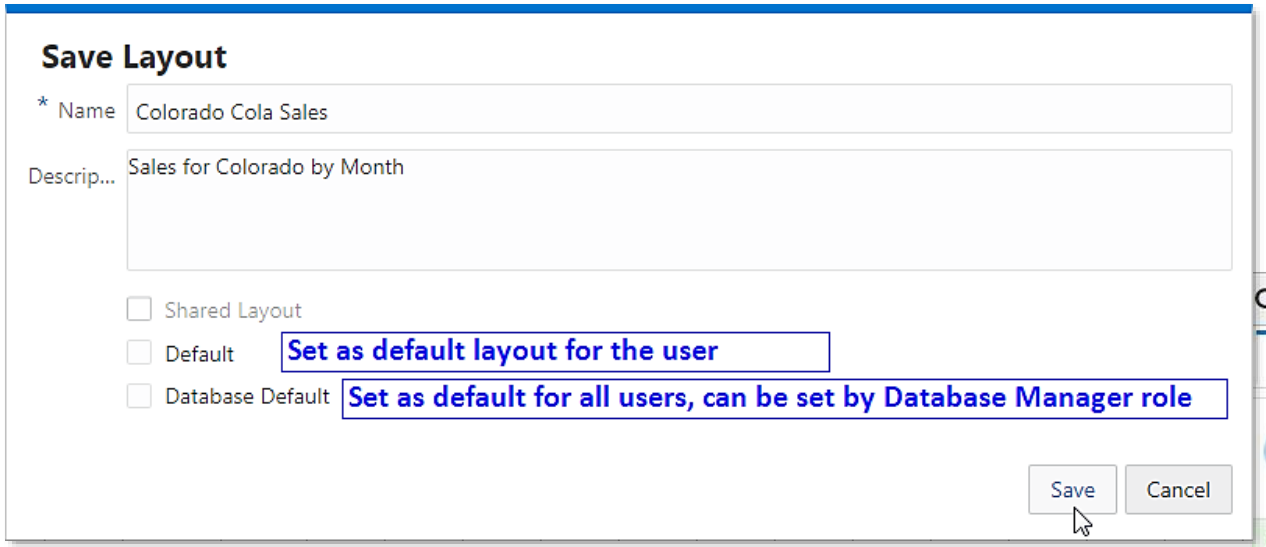
- Provide ability for users to create own layouts and save them
- Capability to
  - Set a default layout for specific user
  - Set a default layout for database (Can be set by Application Manager)

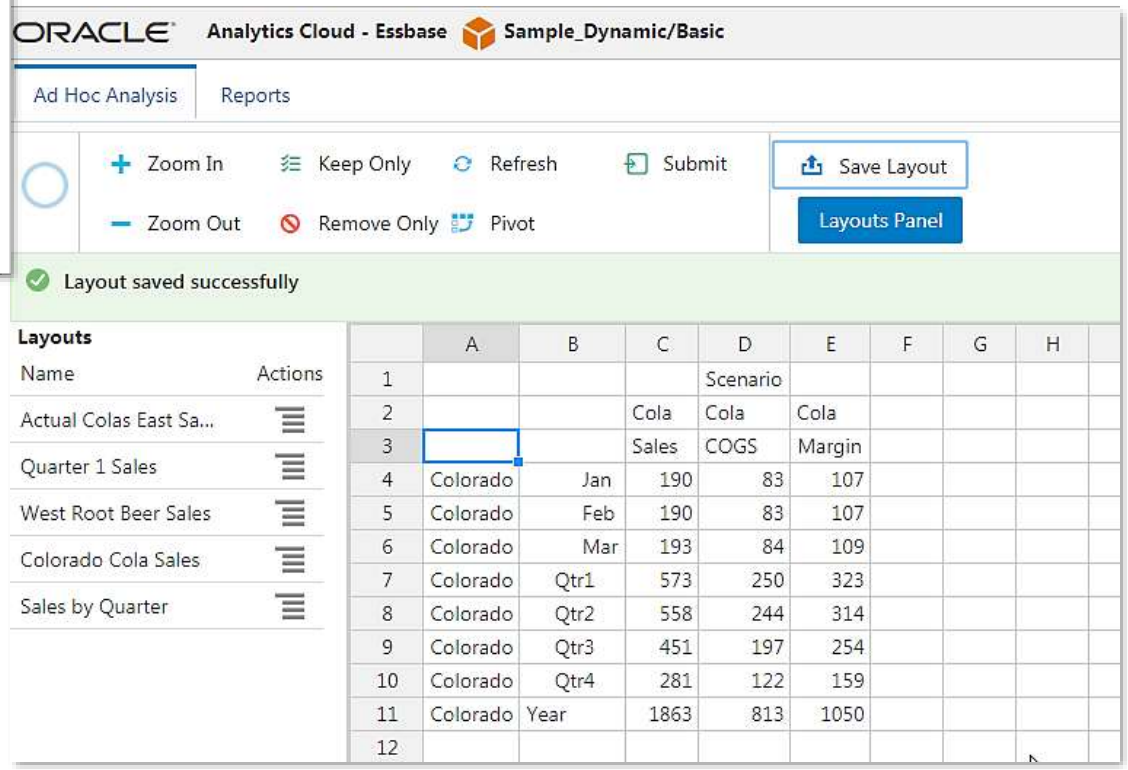




Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Create and Save Layouts

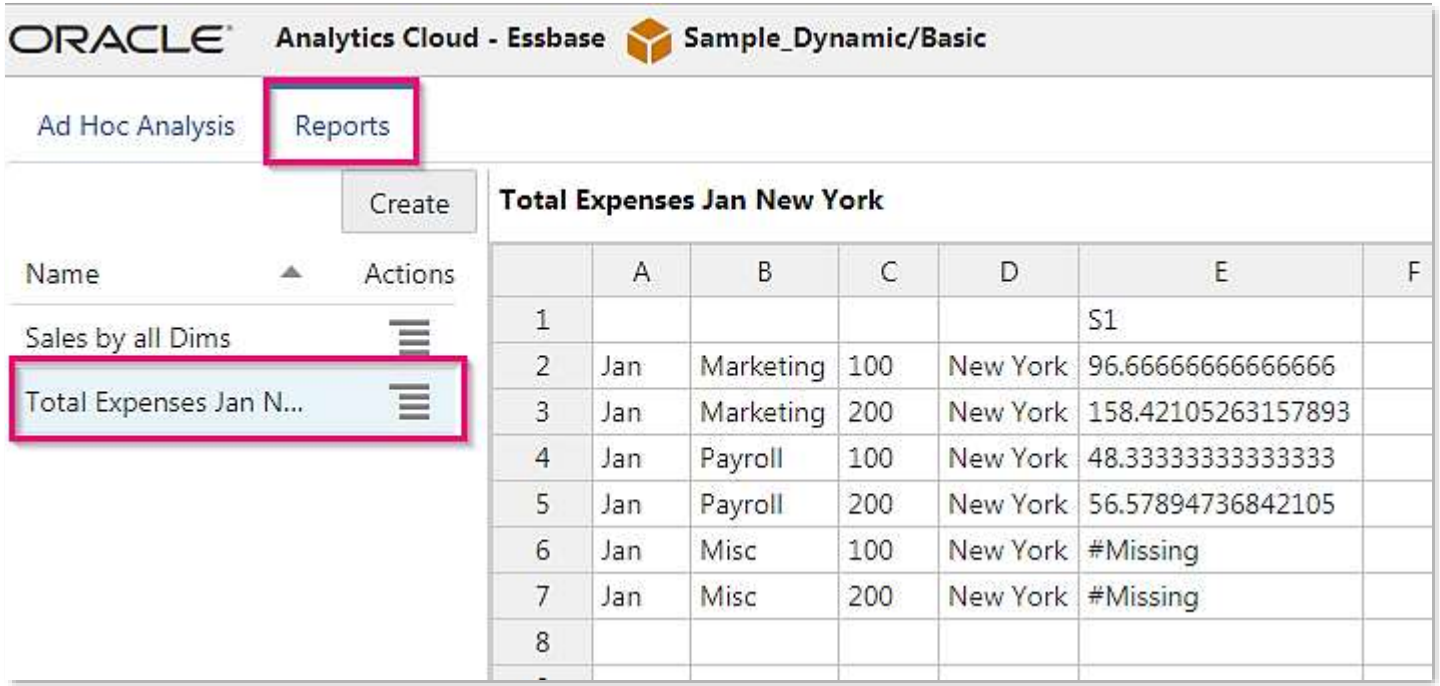




Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Reports

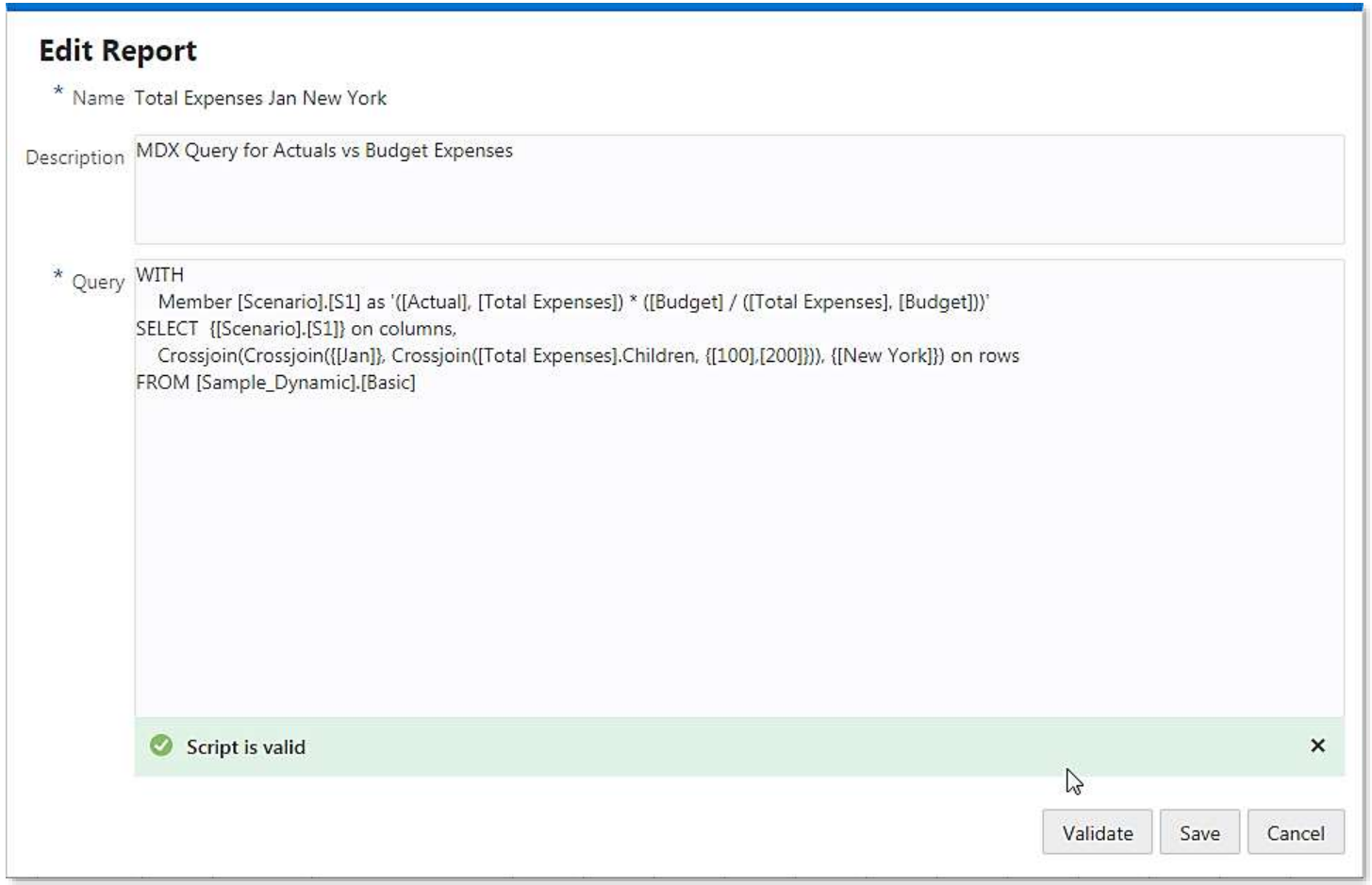
- Ability for users to save MDX queries as reports
- Database Manager and above roles can create reports which can be used by other users
- Ability to Export reports
  - CSV
  - EXCEL
  - HTML
  - JSON
- Ability to “Execute As”

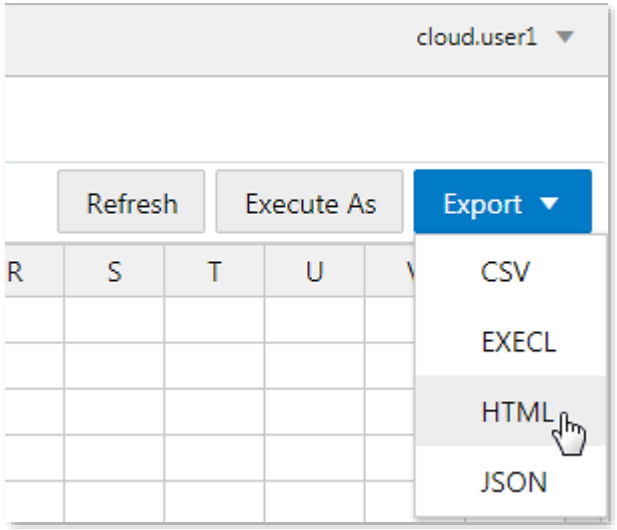


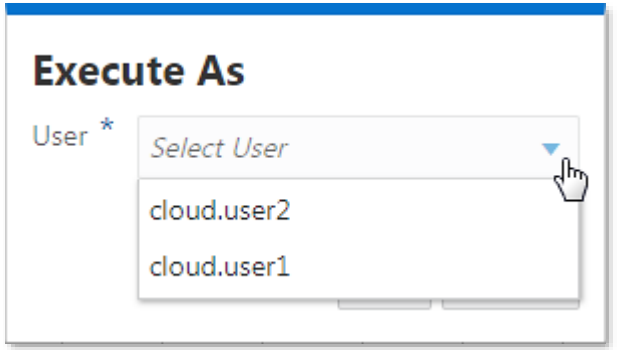
	A	B	C	D	E	F
1					S1	
2	Jan	Marketing	100	New York	96.66666666666666	
3	Jan	Marketing	200	New York	158.42105263157893	
4	Jan	Payroll	100	New York	48.33333333333333	
5	Jan	Payroll	200	New York	56.57894736842105	
6	Jan	Misc	100	New York	#Missing	
7	Jan	Misc	200	New York	#Missing	
8						

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Create/Edit, Export & Execute as Reports







Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

New Gallery Applications

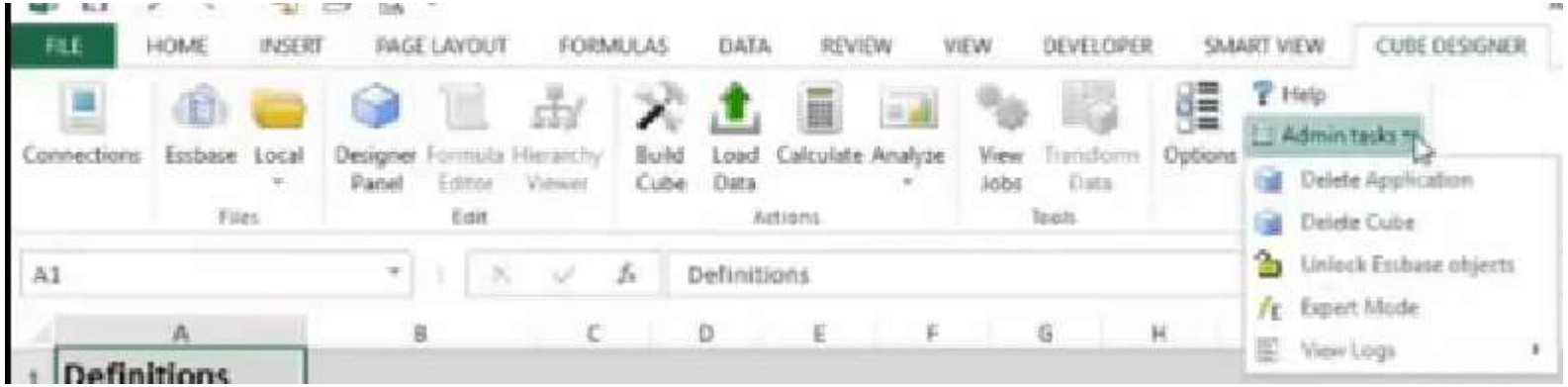
- Financial Analysis
  - Consolidations Restatements
- Technical
  - Solve Order Performance
  - Flip Sign
  - Calc Tuple
- Marketing Analysis
  - RFM Analysis
- Utilities
  - Currency Triangulation
- Demo Samples
  - Sample Dynamic

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

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

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

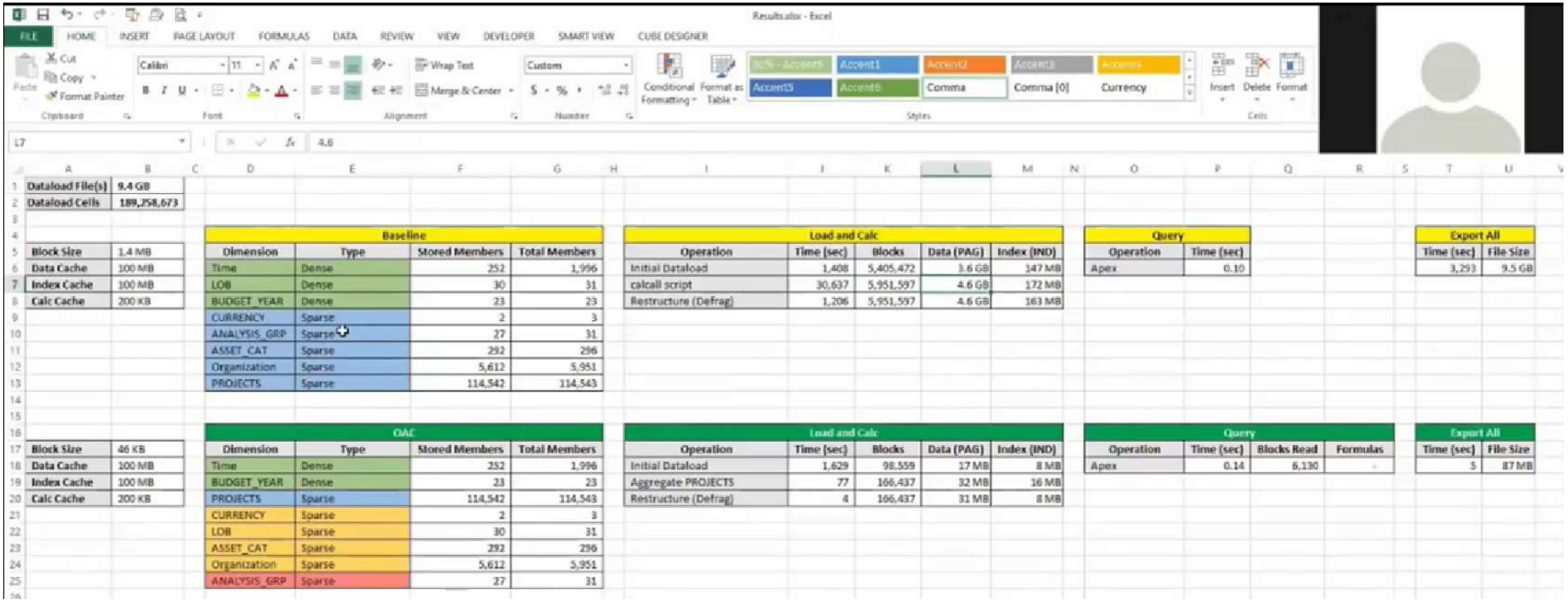
Copyright © 2019, Vlamis Software Solutions, Inc.

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

Copyright © 2019, Vlamis Software Solutions, Inc.

Expert Mode - Sample



Dataload File(s)	9.4 GB
Dataload Cells	189,258,673

Block Size	1.4 MB
Data Cache	100 MB
Index Cache	100 MB
Calc Cache	200 KB

Baseline

Dimension	Type	Stored Members	Total Members
Time	Dense	252	1,996
LOB	Dense	30	31
BUDGET_YEAR	Dense	23	23
CURRENCY	Sparse	2	3
ANALYSIS_GRP	Sparse	27	31
ASSET_CAT	Sparse	292	296
Organization	Sparse	5,612	5,951
PROJECTS	Sparse	114,542	114,543

Load and Calc

Operation	Time (sec)	Blocks	Data (PAG)	Index (IND)
Initial Dataload	1,408	5,405,472	3.6 GB	147 MB
calcall script	30,637	5,951,597	4.6 GB	172 MB
Restructure (Defrag)	1,206	5,951,597	4.6 GB	163 MB

Query

Operation	Time (sec)
Apex	0.10

Export All

Time (sec)	File Size
3,293	9.5 GB

Block Size	46 KB
Data Cache	100 MB
Index Cache	100 MB
Calc Cache	200 KB

OAC

Dimension	Type	Stored Members	Total Members
Time	Dense	252	1,996
BUDGET_YEAR	Dense	23	23
PROJECTS	Sparse	114,542	114,543
CURRENCY	Sparse	2	3
LOB	Sparse	30	31
ASSET_CAT	Sparse	292	296
Organization	Sparse	5,612	5,951
ANALYSIS_GRP	Sparse	27	31

Load and Calc

Operation	Time (sec)	Blocks	Data (PAG)	Index (IND)
Initial Dataload	1,629	98,559	17 MB	8 MB
Aggregate PROJECTS	77	166,437	32 MB	16 MB
Restructure (Defrag)	4	166,437	31 MB	8 MB

Query

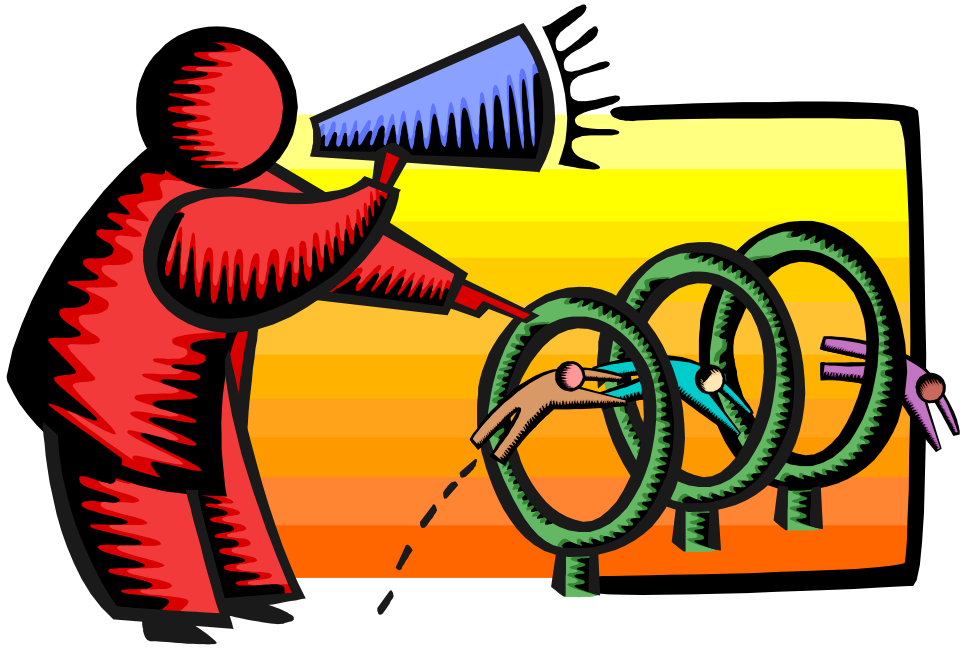
Operation	Time (sec)	Blocks Read	Formulas
Apex	0.14	6,130	-

Export All

Time (sec)	File Size
5	87 MB

Copyright © 2019, Vlamis Software Solutions, Inc.

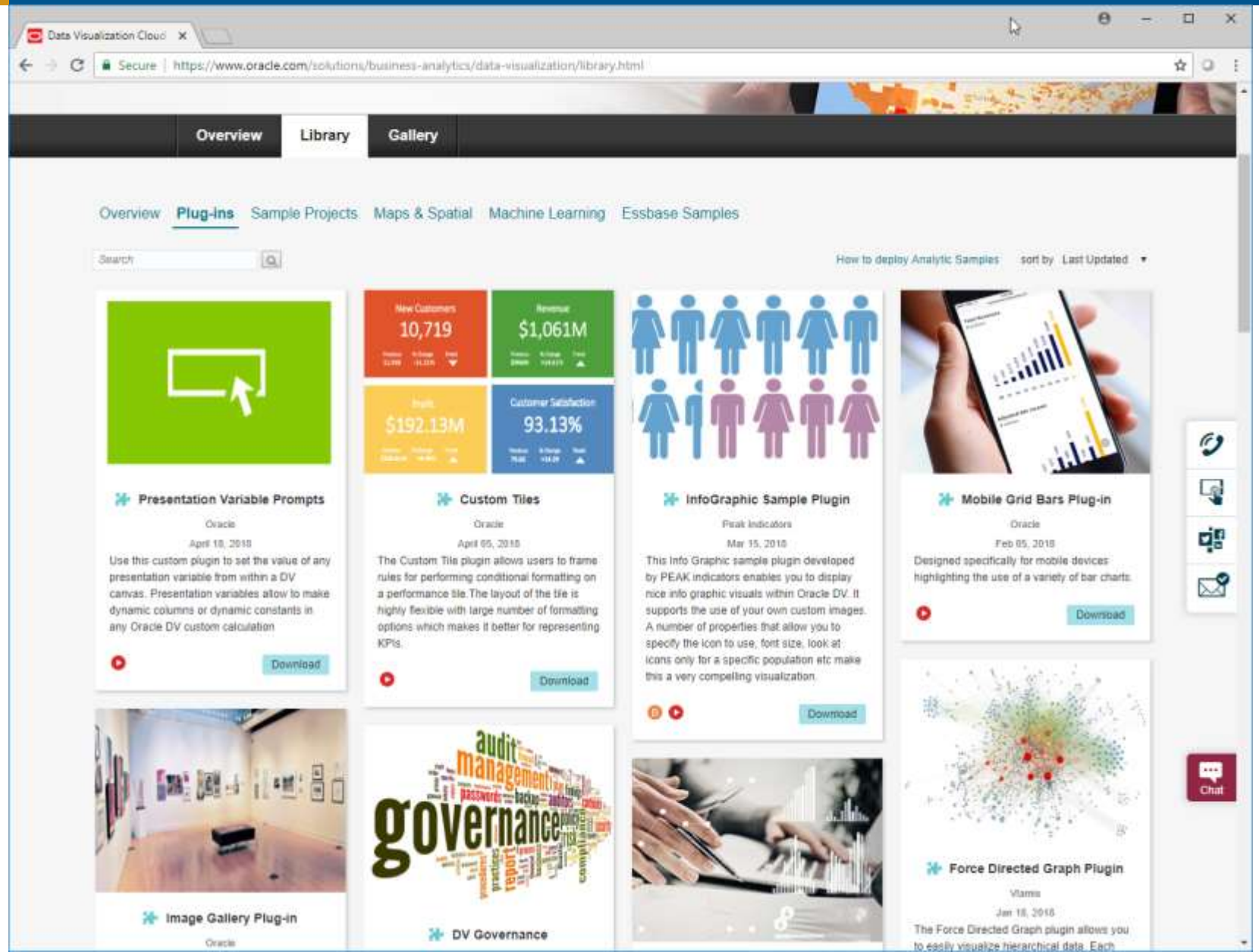
Demo Essbase Features



Copyright © 2019, Vlamis Software Solutions, Inc.

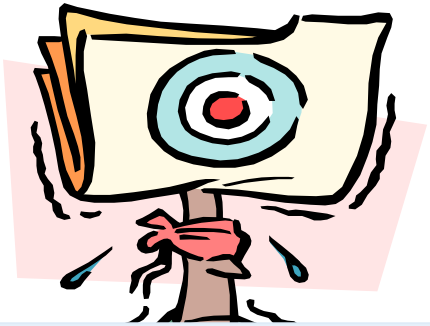
CELEBRATING EXCELLENCE
vlamis 25 YEARS
SOFTWARE SOLUTIONS

Oracle Analytics Library



CELEBRATING EXCELLENCE
vlamis 25 YEARS
SOFTWARE SOLUTIONS

Resources and Questions?



Introduction to OAC Running on ADW

Webcast Mar 6, 2019

Dan Vlamis

Email: dvlamis@vlamis.com, cpendley@vlamis.com

Twitter: @dvlamis, @Cathye_Pendley

Phone (816) 781-2880

Vlamis Software Solutions

Twitter: @vlamissoftware

Vlamis Home www.vlamis.com Blog www.vlamis.com/blog Prior OBIEE releases www.vlamis.com/obiwebinars

OAC What's New Documentation https://docs.oracle.com/en/cloud/paas/analytics-cloud/acswn/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

Copyright © 2019, Vlamis Software Solutions, Inc.