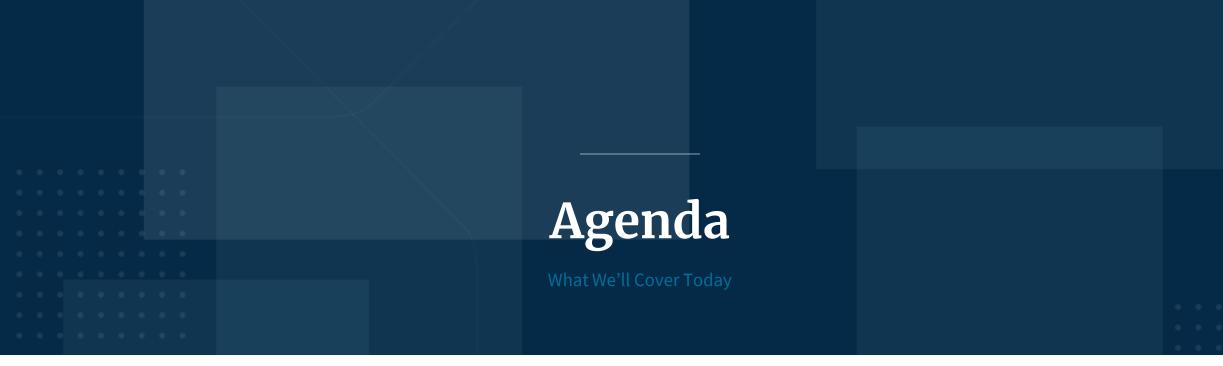




The ABCs and 123s of OAC!

Kscope 2019 | Seattle, WA



. Introduction

5. Q&A

- 2. OAC Components
- 3. Essbase Cloud and Visualization Deep Dive
- 4. Recommendations and Takeaways

About Nick Scott

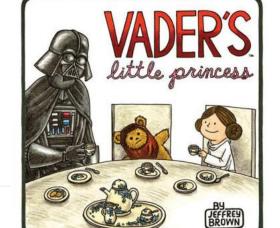
Principal, SC&H Group

- Working in Consulting for 11+ Years
 - Specialize in Planning and Budgeting, BI/Analytics, Integrations and Process Automation
 - Created/leads our Hyperion Infrastructure practice
 - Managed our largest projects, including deployment of PBCS at Hilton to 2,400 users world-wide
 - Specialize in the following industries: Hospitality, Manufacturing, Aerospace
 & Defense
- Two Daughters Lacey (4) & Amber (1)
 - Specialize in Frozen, Moana and The Little Mermaid with a strong knowledge of all things Disney
 - Actively converting both daughters to be Star Wars nerds like their Dad

Day =

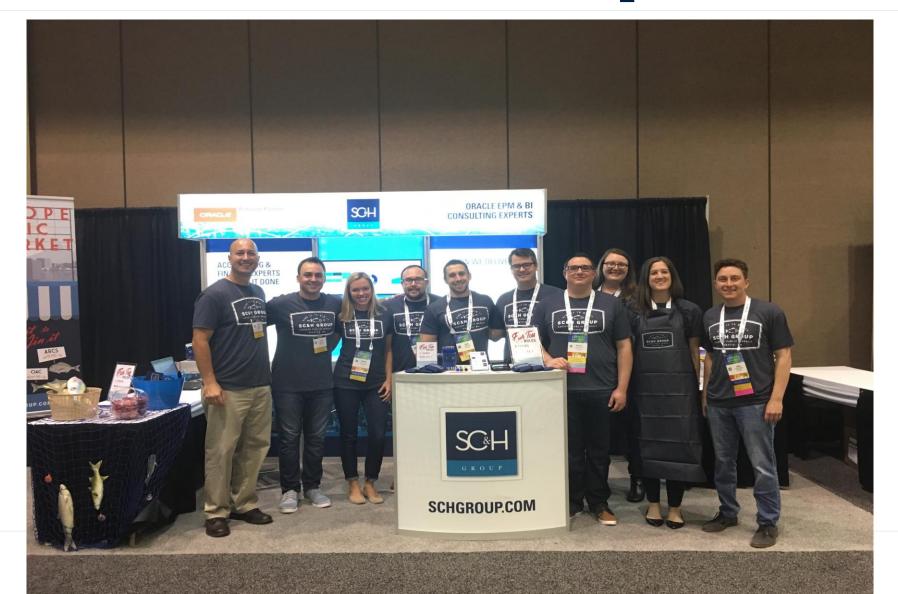
Night =





OVERVIEW

About SC&H Group



Oracle Analytics Cloud (OAC)

Overview



OAC Overview - White Glove Explanation

Studies show that humans respond to visuals better than any other type of stimuli. The human brain processes visual information 60,000 times faster than text. In fact, visual data accounts for 90 percent of the information transmitted to the brain.

OAC Overview – White Glove Explanation

Vision and Strategy: Autonomous Analytics Powers All Actions to Be Data-Driven

Three primary design objectives guide our autonomous analytics strategy.

Expand Insights Consumption

To drive broad consumption, we make it easy for everyone to interact with information so that you can engage, analyze, and act in a way that is natural—asking questions in plain language, searching for answers, and receiving insights as narration. Cut through information overload with relevant, personalized insights, delivered proactively to you in the context that makes the most sense.

Power Deeper Insights

Systems must provide autonomous capabilities that help you dig deeper into your information, explaining drivers of performance, uncovering hidden patterns, and helping you get more from your data. Use these insights to model new scenarios, make intelligent decisions, and amplify insights through collaboration and social sharing.

Accelerate Time to Action

It's critical to remove constraints on time and scale. You must condense the time it takes to go from raw data to insight to action. Many previous systems were designed for a limited set of use cases, and computing infrastructure was complex and costly to change. Our strategy is to create one platform for a broad range of business use cases, all integrated into a common data and analytics metaphor.

OAC Overview - Blue Collar Explanation

- Oracle's Cloud offering for all things BI and Analytics
- Combines Oracle's BI Platforms with the Essbase Cloud Service
 - Oracle Business Intelligence Cloud Service (BICS)
 - Oracle Data Visualization Cloud Service (DVCS)
 - DV Desktop
 - Essbase Cloud (EssCs)
- Platform-as-a-Service (PAAS) Solution which means Oracle still hosts the environment, but gives more flexibility in regards to:
 - Security configurations
 - Server-side access
 - Control over environment scaling and patching
 - Oracle does offer full autonomous versions for hands-off platform management



Random Disney Princess Trivia



What is Moana's pet pig's name?



Product Editions

STANDARD

Essbase

ENTERPRISE

- Oracle Data Visualization capabilities on Oracle's managed platform, including autonomous self-service discovery and data prep, across web, desktop, and mobile.
- Standard Edition +
- Accelerated analysis via Essbase and support for creating scalable, shareable high performance data flows.
- Essbase Edition +
- support for a full semantic layer that enables proactive analytics via Day by Day, lift and shift for OBIEE, and live optimized connectivity to data warehouses.
- Support for a full semantic layer

Architecture



Dashboards & Reports



Mobile

Data Sources:























Oracle Analytics Cloud

Data Analysis and Collaboration

Explore and discover using natural language, visualization, & storytelling

Data Preparation

Prepare enriched, sharable, & reliable data sets

Data and Model Catalog

One place to collect, search, explore & curate all data, Self Service along side enterprise semantics.



Data Visualization

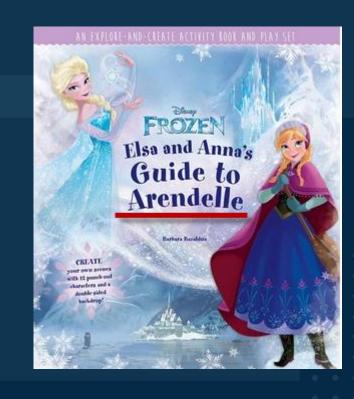


Essbase/SmartView

OAC Component Breakdown Web Phone Browser **Tablet** BICS WebCatalog RPD Repository **Smart DV** Desktop Essbase Cloud View DBCS SQL Developer, REST API, DataSync, etc.

Random Disney Princess Trivia

Where are Anna and Elsa from?



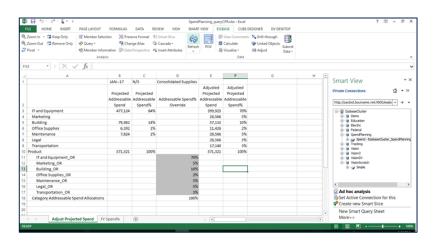


OAC - Essbase Cloud Service



Essbase Cloud Service - Overview

- Classic Essbase running on modernized architecture in the cloud
- Excel integration includes cube designer to accompany standard Smart View functionality
- Integration with Data Visualization
- Sandbox for scenario analysis/what-if





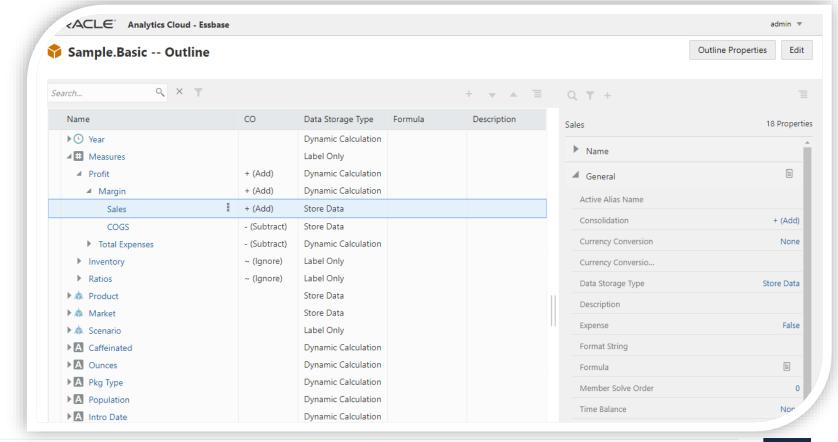




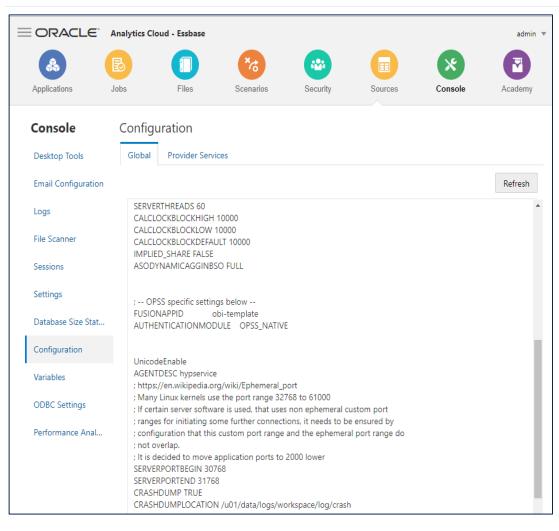


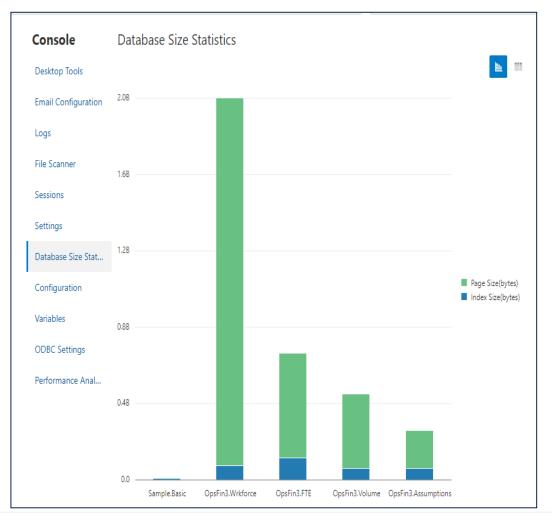
Essbase Cloud Service - Console

- Known as the "Modern Interface" and is the cloud equivalent of EAS
- Access all of your applications and their components
 - Metadata
 - Calc Scripts
 - Config File
 - Logs
 - Data Load Rules
 - Reports Scripts
 - Security Filters
 - Etc.

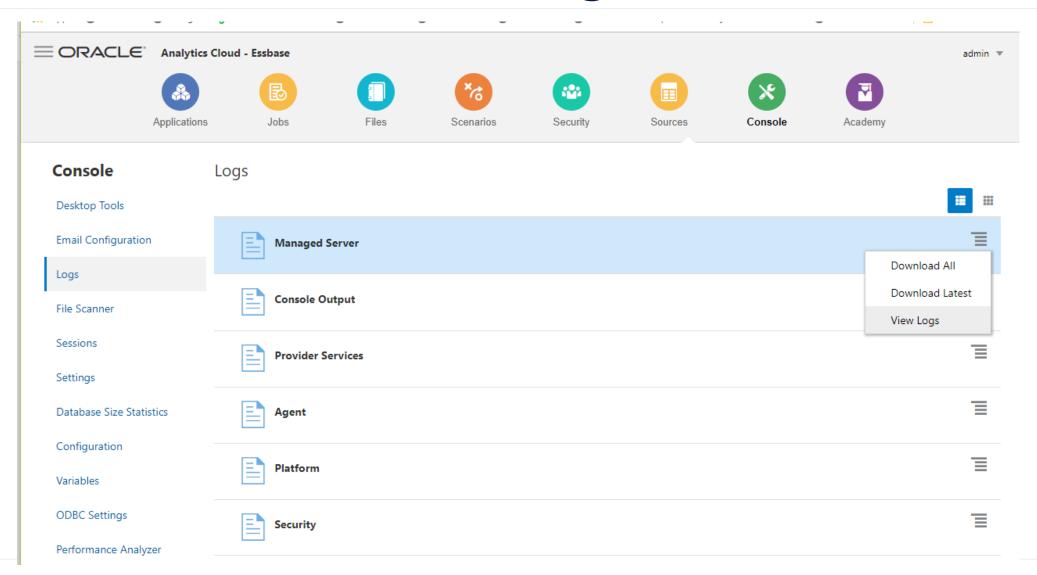


Essbase Cloud Service – Config and Stats





Essbase Cloud Service - Logs



Essbase Cloud Service – Tools and Utilities



















Console

Desktop Tools

Email Configuration

Logs

File Scanner

Sessions

Settings

Database Size Statistics

Configuration

Variables

ODBC Settings

Performance Analyzer

Desktop Tools

Export Utility

Command-line tool for exporting the outline of a cube, and optionally other elements, into a formatted Excel workbook template

Life Cycle Management

Backup and restore the Essbase artifacts

Command-line Tool

Command-line Tool for Essbase platform

Migration Utility

Command-line tool for migrating Essbase applications, elements and users between cloud instances

- Smart View
- Maxl Clients

Essbase Maxl Client

Essbase Maxl Client for Winamd64

Essbase Linux Maxl Client

Essbase Maxl Client for Linuxamd64

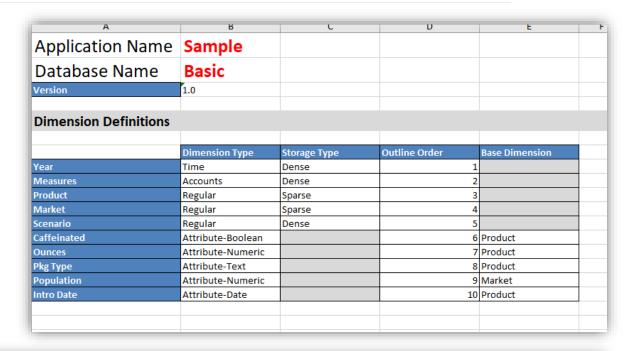
- Essbase Clients
- Essbase JAPI

Essbase Java API

Essbase Java API library, samples and Java documentation

Essbase Cloud Service – Cube Designer

- My favorite feature of Essbase Cloud
- Can export an entire cube to an Excel workbook
- Manage metadata, member formulas, outline parameters etc.,
- Edit existing cubes or use the workbooks to create a an entirely new cube
- Similar to managing metadata in Smart View for Planning/PBCS/FCCS



Dimension Name	Measures								
Definitions									
File Name	Dim_Measures		Delimiter	,					
Rule Name	Measures		Header Rows to Skip	0					
Build Method	PARENT-CHILD		Allow Moves	No					
Incremental Mode	Merge								
Members									
Columns	PARENT	CHILD	STORAGE	CONSOLIDATION	TWOPASSCALC	TIMEBALANCE	VARIANCEREPORT	FORMULA	ALIAS.Long Name
	Measures	Inventory	0	~					
								IF(NOT @ISMBR(Jan))"Opening	
								Inventory"=@PRIOR("Ending Inventory");	
								ENDIF; "Ending Inventory"="Opening	
	Inventory	Opening Inventory				F	E	Inventory"+Additions-Sales;	
	Inventory	Additions		~			г		

Essbase Cloud Service - Scenario Modeling

- New feature with Essbase in the Cloud Sandboxing and Scenario Management
- Can create private copy data for "what-if" and sensitivity analysis
- Ability to refresh from the base data or merge the sandbox into base
- How it works:
 - When first created, sandbox member intersections are all virtual and have no physical storage.
 - The physical data from the cube is stored in the Base member slice
 - Querying new sandbox members dynamically reflects the values stored in the Base
 - Each scenario is a virtual slice of a cube in which one or more users can model data and then commit or discard the changes
 - Security and filters apply to the Sandbox dimension

Essbase Cloud Service – Migrating

- The Life Cycle Management (LCM)utility can be used to import/move cube artifacts from onprem Essbase to OAC.
 - Exceptions include cross cube features like XREF and Partitions
 - Only 11.1.2.3 and 11.1.2.4 environments are supported
- Automation and Integration artifacts (such as MaxL) need to be manually migrated to the Essbase Cloud client utilities
- Security is administered much like other Oracle EPM cloud applications
 - Environment based roles administrator, power user, and user
 - Application level roles application administrator, database administrator, update, and access
 - Encryption Essbase content is encrypted and once it's ingested

Random Disney Princess Trivia

What is a DingleHopper?





OAC – Enterprise Components (BICS and Day by Day)



BICS = OBIEE in the Cloud + More

- Traditional OBIEE Dashboards and BI Publisher
 - Suited for more static views with some interactive capabilities
 - Can be migrated from on-prem OBIEE
- BI Admin Tool for connection to cloud and onprem data sources
- Can utilize local RPD or new RPD online connector tool



Day by Day App

- Delivers analytics throughout the day based on what's going on in your business, in your day, and who you collaborate with
- Quickly get answers to your business questions, simply by doing a search or via voice commands
 - BY asking a questions the Oracle Day by Day engine will prepare an analytic summary
- Make public comments, create private discussions and even share insights via third-party apps.

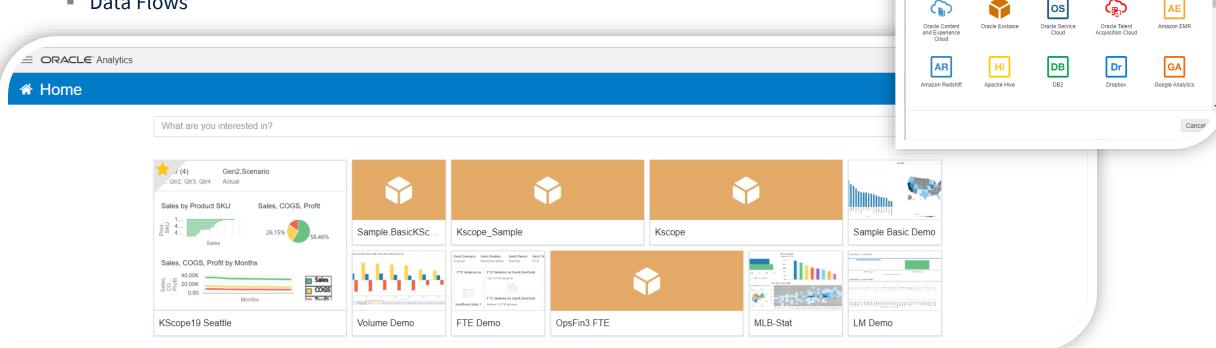


OAC - Data Visualization Cloud Service



Data Visualization - Overview

- Self-service data visualization that connects to a variety of data sources
- Users can create and manage:
 - Projects
 - Data Sets
 - Data Flows



Q **!!!**

6

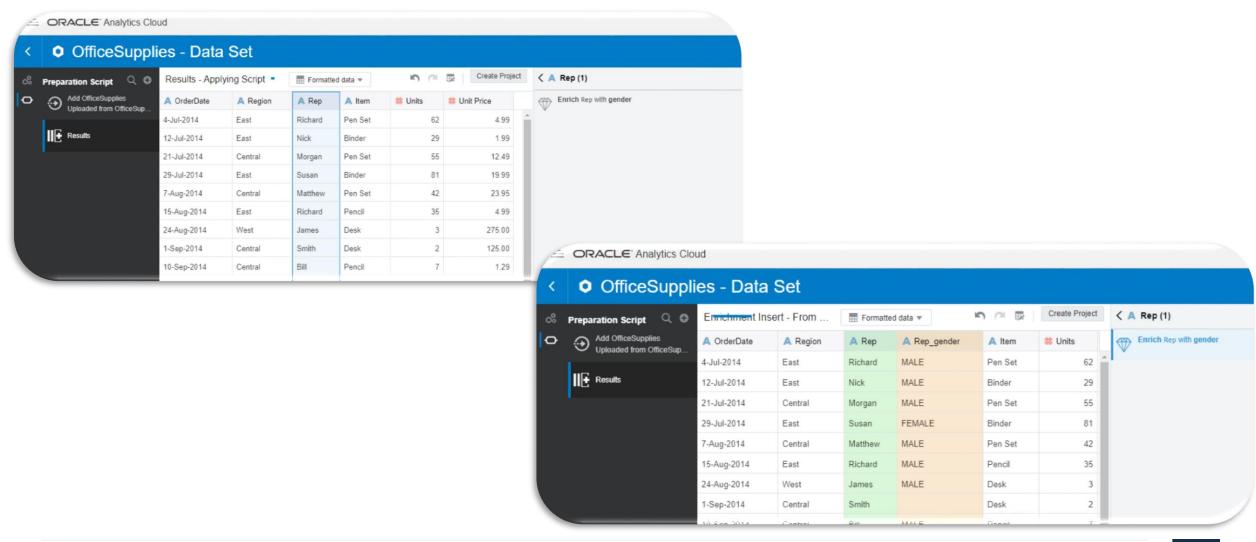
Oracle Database

Create Connection

Autonomous Data

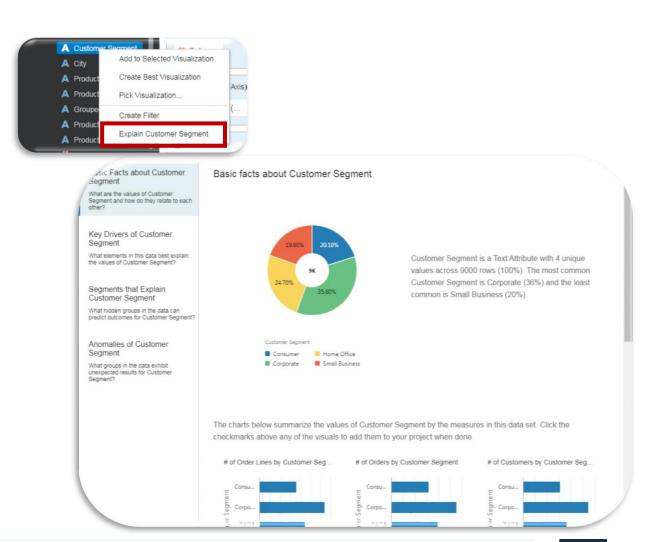
Select Connection Type

Data Visualization - Data Prep

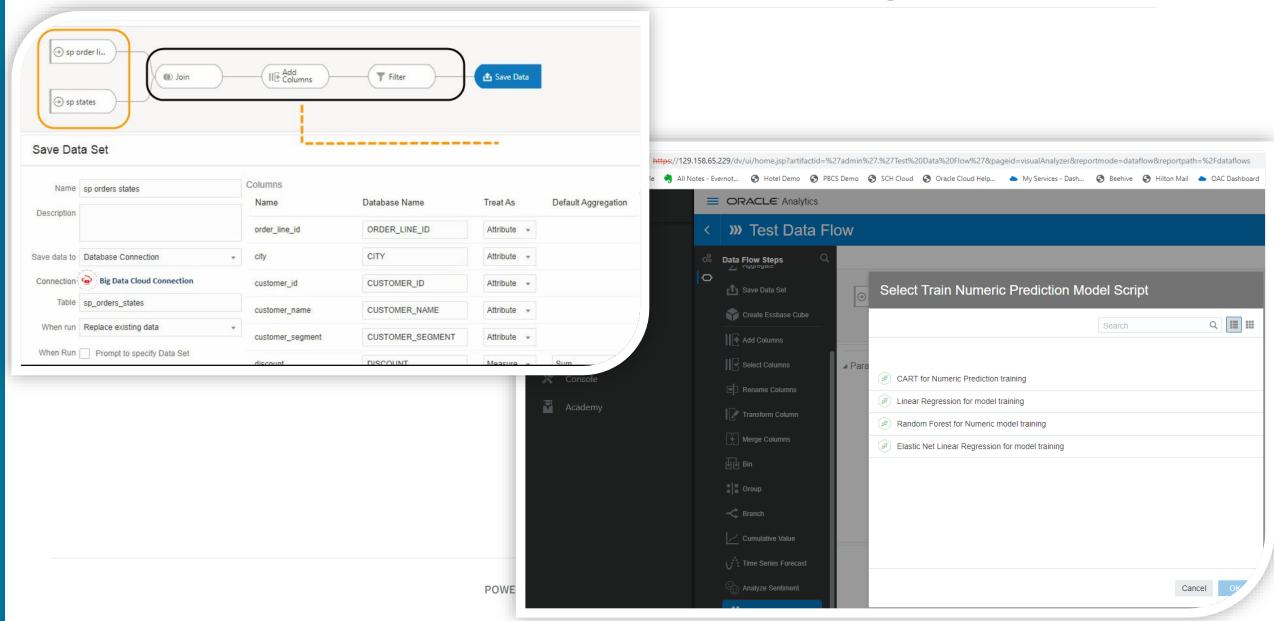


Data Visualization - Machine Learning

- "Explain" Feature in OAC Data Visualization uses Machine Learning to recognize the patterns and trends in your data set
- Analyzes and processes technical and statistical complexity and the volume and variety of data
- Identify and analyze key segments of behavior
- Discover Anomalies/outliers quickly
- Can subsequently use these visual insights and statistical analysis in your project visualization



Data Flows and Predictive Modeling





Random Disney Princess Trivia

Name Sleeping Beauty's Three Fairy God Mothers.



Demo - Essbase Cloud and Data Visualizations

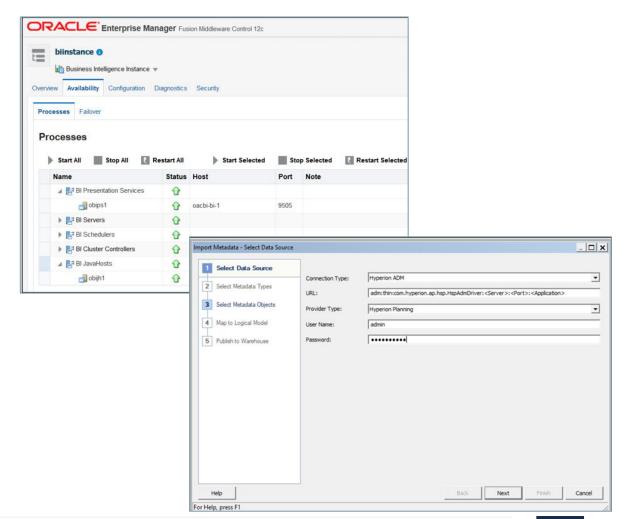


Key Takeaways and Recommendations



Connecting OAC to EPM Cloud Data Sources

- OAC does allow for direct connection to EPBCS and FCCS applications
- Requires the use of the BI Admin Tool and configuring the connection via the application URL and ADM driver
- We have found this setup is best suited for more stagnant reporting applications
- We recommend setting up reporting cube to mirror EPM applications in OAC for visualizations for better performance



Utilizing Essbase as a Source for Visualizations

- Cubes must have less than 50 accounts, so design them in a way that summarizes your data in a meaningful way
- There is a lag time between cube metadata updates refreshing to DV but data submission is real-time
- Ability to submit data to Essbase through Smart View and the new write back plug-in
- Limit dimensions in your cubes to avoid your visualization filtering becoming unbearable to manage
- Fast spin up of multiple cubes to make visualizing slices of your business easy

Recent Enhancements

- Can now select an alias table when creating or updating Essbase data sets in DV
- Pause services you deploy on Oracle Cloud Infrastructure to prevent users from accessing the service
- Track user queries and generate reports and visualizations to analyze the usage data
- Create connections to the Snowflake Data Warehouse
- Share one or more of your project's visualizations, canvases, or stories to LinkedIn as a file
- Data file migration utility
- Snapshot enhancements
- Create connections to Oracle Autonomous Transaction Processing



And One Random Star Wars Trivia Question!

What is Luke Skywalker's Home Planet?



Let's Catch Up



Nick Scott

Principal

SC&H Group

nscott@schgroup.com

//

410-988-1362

Stop By and See Us in the Exhibit Hall!

SC&H @ Booth #110



"Live" Fish Toss Contest

Make 3 Shots:

- Win Starbucks Gift Card
- Entered for Chance to Win 1 of 3 Yeti Buckets

Boat Keychains! Swedish Fish! Koozies!

