

Gary Adashek

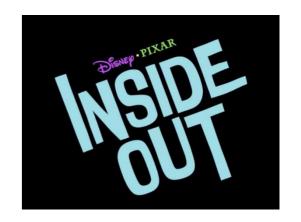
Sr Manager Data Solution Architects EPM & BI

GLOC - Great Lakes Oracle Conference

Thursday, May 17, 2018 - 1:15 AM - 2:15PM

Room Location: tbd





Inside Out
of OAC Essbase
&
DV plus BI

Abstract

Title: Inside Out of OAC Essbase & DV plus Business Intelligence

Tags: EPM Cloud, OAC, Cube Designer, Smart View, Tips, Guide, Visualization, Business Intelligence

Join Oracle ACE Gary Adashek from General Electric GE Digital as he goes Inside Out (think Disney/Pixar) of Oracle Analytics Cloud (OAC), OAC DV & BI. Learn the step-by-step how-to Build an Essbase cube from scratch via Cube Designer (DBX) an Excel Wizard driven workbook model. Then connect your cube to analysis plus visualizations, create a beautiful story about your dataset and determine insights. Even more, take a look into additional ad-hoc analysis or Object inserts via Smart View.

This presentation will take a detailed look into the steps required to successfully design, build, and deploy an Essbase cube in the cloud via Excel. Connect that cube as a source for beautiful visualizations online with OAC DV as well as ingest OAC BI content into MS office via Smart View.

A step by step guide, tools, tips and tricks.

The benefits that users receive from this work:

- Essbase cube build via Cube Designer Extension Wizard
- Setup & Connect OAC DV/BI to OAC Essbase as a Data source
- Create Data Visualizations and use custom Data Viz Plug-ins
- Create OBI content
 Consume OBI data objects via Smart View for Office



General Electric Company – GE

Imagination at work





"Our primary focus must be on delivering outcomes. We don't define that solely by the number of gas turbines, wind turbines, jet engines, or CT scanners we manufacture.

The ultimate purpose of our work is the children in distant villages who get access to electricity for the first time, the travelers who get home safely, and the patients who receive better diagnoses and treatments in the moments that matter most. When our teams understand customer needs and deliver outcomes for them, we always end up in a good place for our employees and our owners."

Schedule of **GE** presenters

Imagination at work



#	GE Presenter	Presentation Title	Day	Time	Location
1	Mike Fuori	Increasing Controls, Validations and Data Integrity for HFM	11-Jun-18	10:45 AM - 11:45 AM	Asia 3
2	Rakesh Kandagatla Neviana Zhgaba	Set the DRG Genie free! It will ask, ever had a governance friend like me?!	11-Jun-18	2:30 PM - 3:30 PM	Southern IV
3	Gary Adashek Gary Crisci	Save "The Beverage Company"! – How to impress people with Smart View in PowerPoint	11-Jun-18	4:15 PM - 5:15 PM	Northern A1
4	Gary Adashek	Inside Out OAC Essbase & DV	12-Jun-18	11:45 AM - 12:45 PM	Northern A1
5	Gary Crisci	Happily, Ever After: ODTUG and Oracle Enterprise Planning and Budgeting Cloud Solution (EPBCS)	12-Jun-18	11:45 AM - 12:45 PM	Northern E3
6	Joe Nasal	Building a World Class EPM Platform as a Service	12-Jun-18	02:15 PM - 03:15 PM	Asia 5
7	Neviana Zhgaba	Let me share this Whole New World of Agile and DevOps with you	12-Jun-18	02:15 PM - 03:15 PM	Oceanic 4
8	Mike Fuori	Predictive Analytics for HFM	12-Jun-18	11:45 AM - 12:45 PM	Oceanic 4
9	Paul Husak	The EPM Force Awakens @ GE into a Fully Functional Shared Service	13-Jun-18	2:15 PM - 3:15 PM	Oceanic 4



500+ Technical Experts Helping Peers Globally









3 Membership Tiers

- Oracle ACE Director
- Oracle ACE
- Oracle ACE Associate

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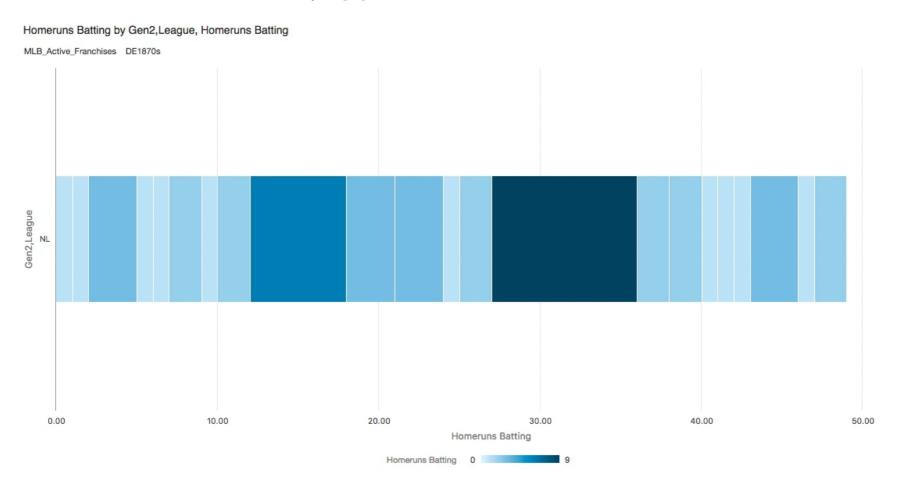


Nominate yourself or someone you know: acenomination.oracle.com



What are you watching?

ALL of the Major League Baseball Homeruns hit EVER! from 1871 until 2016 in less than 1-minute!





OAC Data Visualization - Custom Plugin

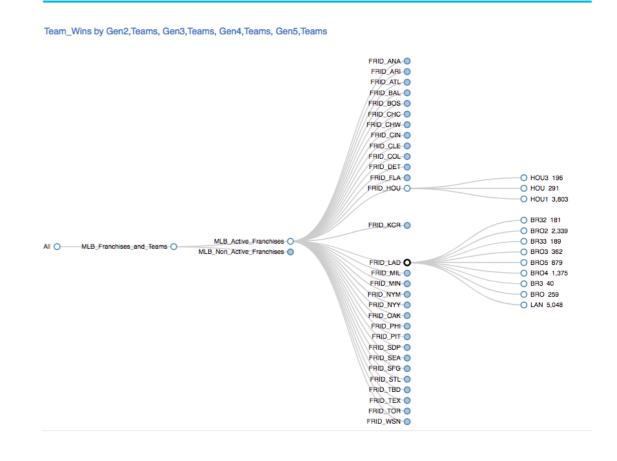
MY favorite plugin!

Expandable Tree

What makes this plugin special?

It does **NOT** require a #measure!

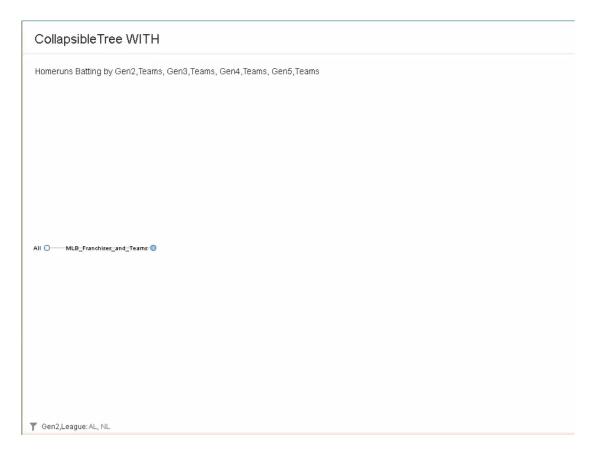
2 Team Franchises in the 2017 World Series - LAD v HOU



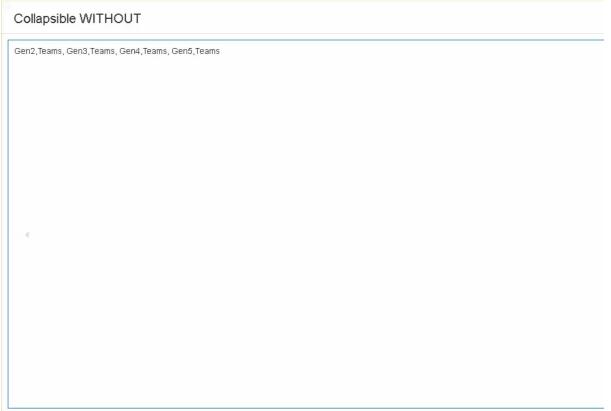


OAC Data Visualization – Custom Plugin Collapsible Tree

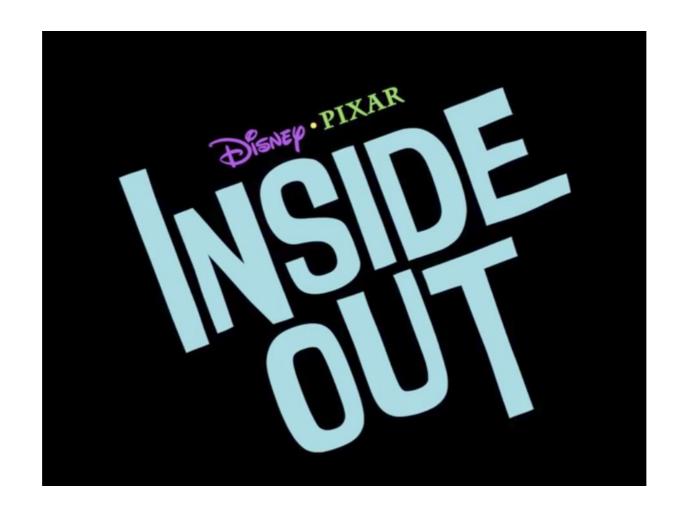
WITH DATA



... WITHOUT DATA!









Inside Out



Meet the emotions

- Joy
- Disgust
- Sadness
- Anger
- Fear
- Bing Bong





What is OAC?





OAC - Oracle Analytics Cloud

Oracle Analytics Cloud (OAC) is a single platform that empowers your entire organization to ask any question of any data in any environment on

any device



OAC - Essbase New UX user experience & New UI User Interface



ORACLE Analytics Cloud - Essbase



























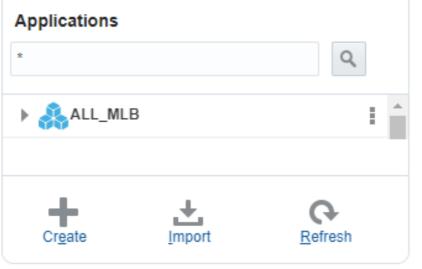
Applications

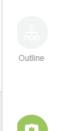
Outline Jobs Scripts Admin

Security Files Settings Scenario

Partitions Utilities Template Academy



























OAC - Essbase Utilities



Download & Install **BOTH** Smart View **AND** the Cube Designer extension

Utilities

Name	Provider	Description
± Export Utility	Oracle	Command-line tool for exporting the outline of a cube and, optionally other elements, into a formatted Excel workbook template
Smart View for Essbase	Oracle	Smart View for Essbase
Life Cycle Management	Oracle	Backup and restore the Essbase artifacts
Command Line Tool	Oracle	Command Line Tool for Essbase platform
± Essbase Java API	Oracle	Essbase Java API library, samples and Java documentation
Sample Utility Scripts	Oracle	Sample utility scripts
Cube Designer Extension	Oracle	Cube Designer Extension for Essbase Smart View



OAC – Essbase **Templates**



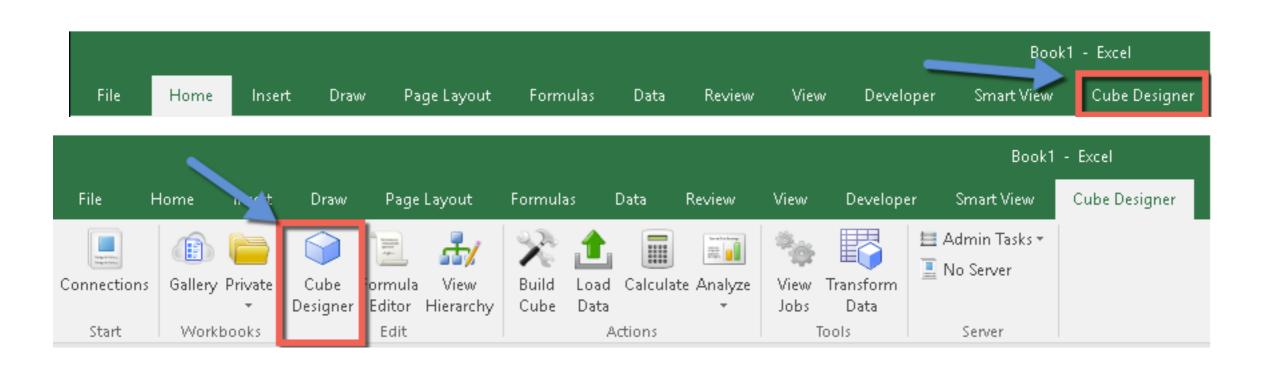
Pre-built workbook templates!

Templates

Name	Provider	Description
Block Storage Sample (Stored)	Oracle	Block storage application workbook.
Block Storage Sample (Dynamic)	Oracle	Block storage application workbook. All non-leaf level members are dynamic.
	Oracle	Block storage application workbook with scenarios enabled. All non-leaf level members are dynamic.
→ Demo Basic	Oracle	Basic demo application workbook
Aggregate Storage Sample	Oracle	Aggregate storage application workbook.
Aggregate Storage Sample Data	Oracle	Data for the aggregate storage application workbook.
📥 Free-form Tabular Data Sample	Oracle	Tabular data Excel file.



Smart View + Cube Designer Extension Installed





Inside Out of OAC Essbase & DV plus BI

see the world from the inside out



when you feel good when you feel mad when you feel sad never fear they're all in your head

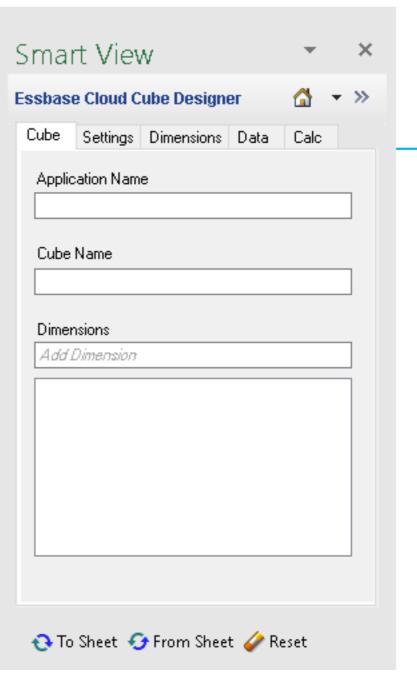


Essbase Cloud Cube Designer

This cube designer wizard can technically be used to design build & deploy BOTH on-premise **AND** cloud cubes!

HOW & WHY?



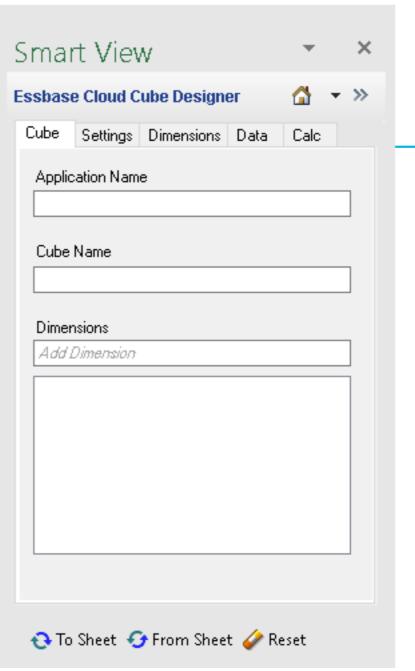




Essbase Cloud Cube Designer Cube

- Application Name: enter name <tab>
- Cube Name: enter name <tab>
- Dimensions {Add Dimension} .. plural

 How many people have created a cube with only 1-Dimension?





Essbase Cloud Cube Designer **Settings**

- Alias Tables {Add Alias Table} (Default)
- Properties
 - BSO {checked}; ASO {unchecked}
 - Unique Member Names Only
 - Aggregate Missing Values
 - Create Blocks on Equation
 - Two Pass Calculation
 - Scenario Sandboxes {0-9999999999999} or 1000

Properties

BSO (Block Storage Outline)

Unique Member Names Only

Aggregate Missing Values

Create Blocks on Equation

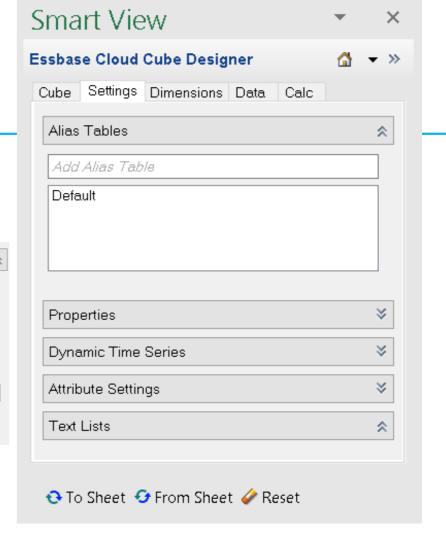
yyyy-mm-dd

Two Pass Calculation

Scenario Sandboxes

Date Format

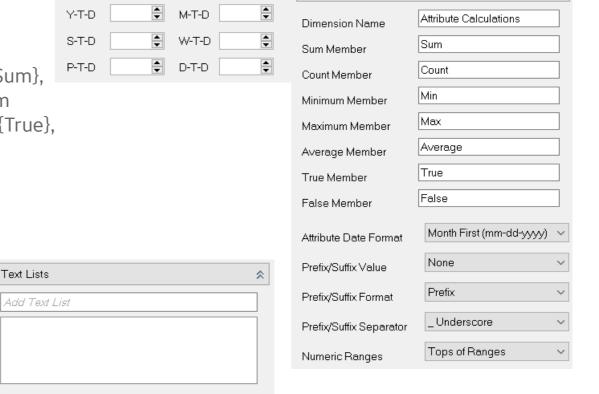
Date Format {ex.yyyy-mm-dd}





Essbase Cloud Cube Designer Settings Continued

- Dynamic Time Series {M-T-D (12), Q-T-D (4), Y-T-D (1), etc.}
- Attribute Settings
 - Dimension Name {Attribute Calculations}, Sum Member {Sum}, Count Member {Count}, Minimum Member {Min}, Maximum Member {Max}, Average Member {Average}, True Member {True}, False Member {False}
 - Attribute Date Format (Month First (mm-dd-yyyy))
 - Prefix/Suffix Value {None}
 - Prefix/Suffix Format {Prefix}
 - Prefix/Suffix Separator {_Underscore}
 - Numeric Ranges {Tops of Ranges}
- Text Lists {Add Text List}



 \triangle

Attribute Settings

Dynamic Time Series

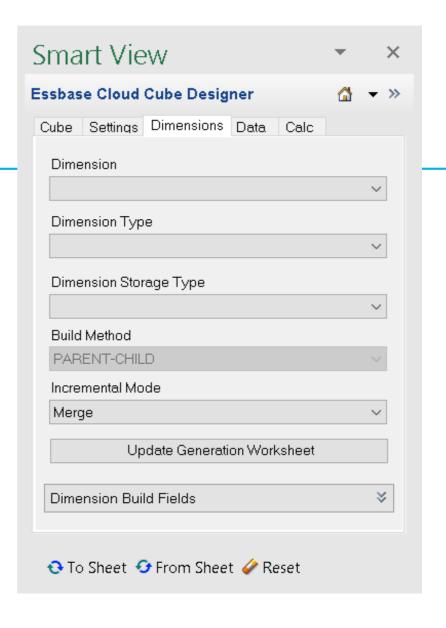
H-T-D

Q-T-D



Essbase Cloud Cube Designer **Dimensions**

- Dimension
- Dimension Type
- Dimension Storage Type
- Build Method {PARENT-CHILD}
- Incremental Mode {Merge}
- Button: Update Generation Worksheet
- Dimension Build Fields





Essbase Cloud Cube Designer Dimension Build Fields

- Dimension Build Fields
 - Member ID
 - ☐ Storage Type
 - Consolidation Operator
 - Two Pass Calculation
 - ☐ Solve Order
 - ☐ Time Balance; Skip Value
 - Expense Reporting
 - ☐ Comment
 - Formula
 - ☐ User Defined Attribute; Number of UDAs
 - ☐ Select: Available Alias Tables



Dimension Build Fields	\$
Member ID	
Storage Type	
Consolidation Operator	
Two Pass Calculation	
Solve Order	
Time Balance	
Skip Value	
Expense Reporting	
Comment	
Formula.	
User Defined Attribute	
Number of UDAs:	
Available Alias Tables	



Essbase Cloud Cube Designer **Data**

Data Sheets {Add Data Sheet}

Dimension Column Order

Measure Columns

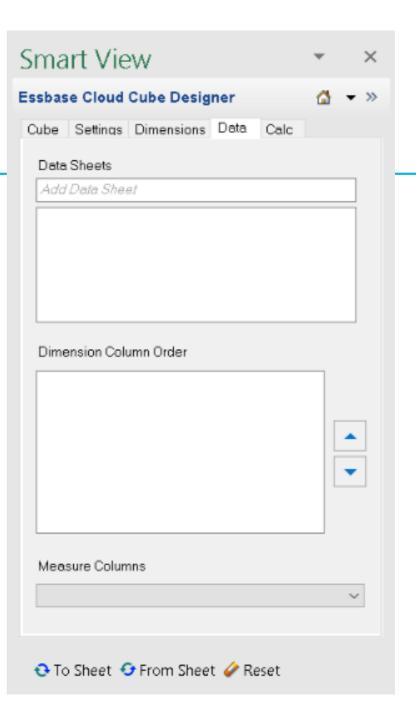
Add as needed .. Not required

Format Syntax of Measure Columns

Measure.MemberName

Example: Measure.Pitching_W



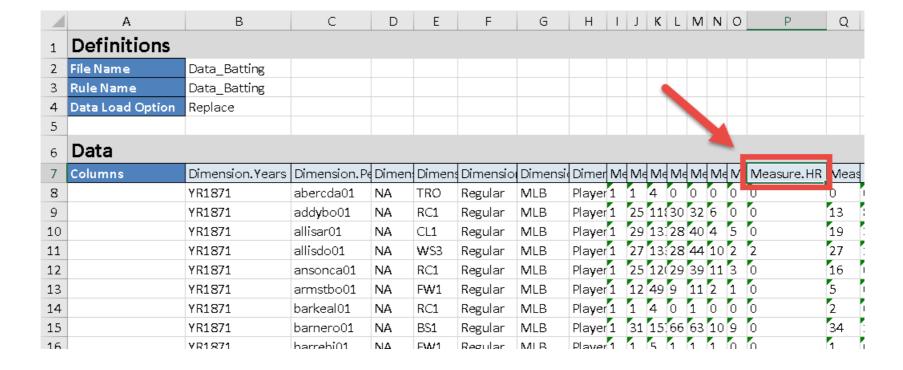


Essbase Cloud Cube Designer Data .. Measure.Format Syntax

Format Syntax of Measure Columns

Measure.MemberName

Example: Measure.HR

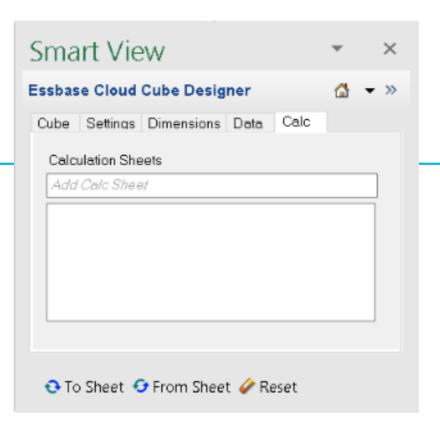




Essbase Cloud Cube Designer Calc

Calculation Sheets {Add Calc Sheet}

Add as needed .. Not required





Essbase Cloud Cube Designer To - From - Reset

🔥 To Sheet 🐠 From Sheet 🥔 Reset

To Sheet

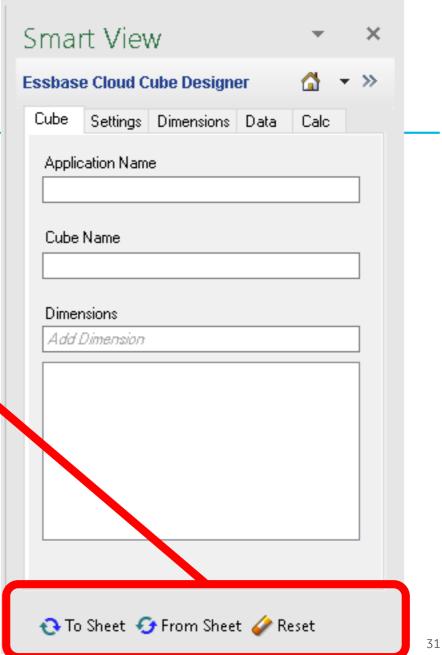


From Sheet



Reset







Essbase Cloud Cube Designer Files



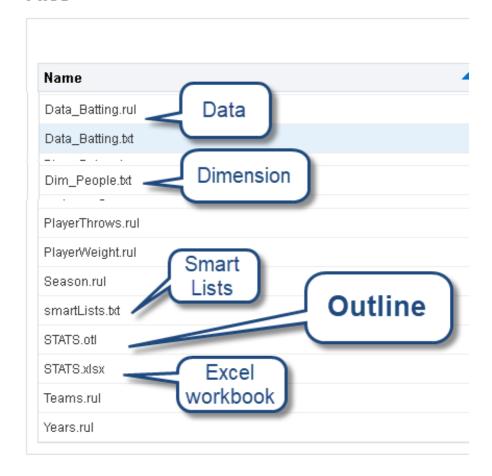
- Data
- Dimension
- Smart Lists
- Outline
- .xlsx

Note:

The Excel file online in OAC is not dynamically updated.

This is your as-is 'copy' at the time when you create-build the cube, not as a real-time backup

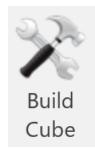
Files





Essbase Cloud Cube Designer *LIVE DEMO!





Without using a Gallery template



How fast can we build a cube .. Ready Go!

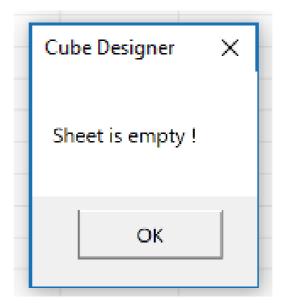


Essbase Cloud Cube Designer Build Cube



Deploy the cube to Essbase cloud







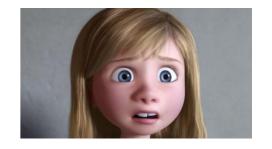


Essbase Cloud Cube Designer Connection - Smart View



Private Connection



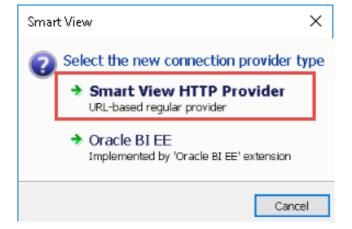


Create new connection



Smart View HTTP Provider

URL -> http://host/essbase/smartview



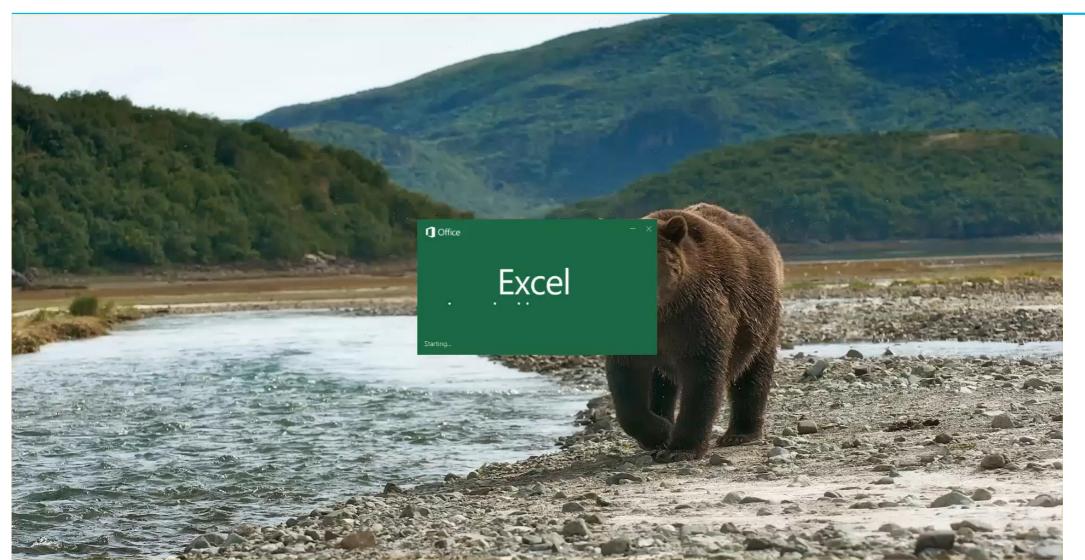


Essbase Cloud Cube Designer *LIVE DEMO!

~ 1 minute 32 seconds



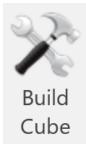




Essbase Cloud Cube Designer Cube Builder Tools

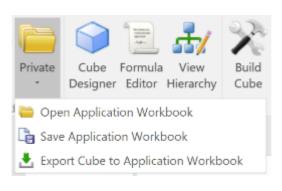






Deploy the cube to Essbase cloud









Essbase Cloud Cube Designer Cube Builder - View Hierarchy



Find Next

Close

When creating, building, within the workbook

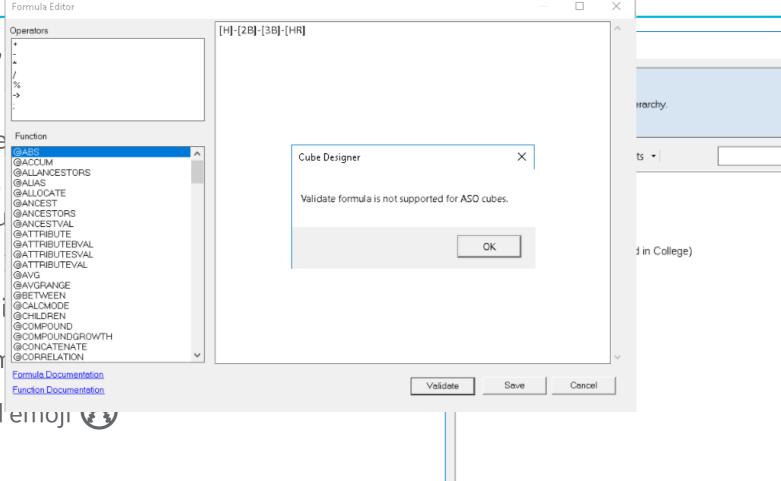
Click on the 'View Hie

This allows the ability to representation of the 'ou

Fun Fact 1: OAC requi

Fun Fact 2: Unicode n

or in this case a baseball emon vy



Number of members loaded: 212 of 212



Essbase Cloud Cube Designer Cube Builder - View Hierarchy



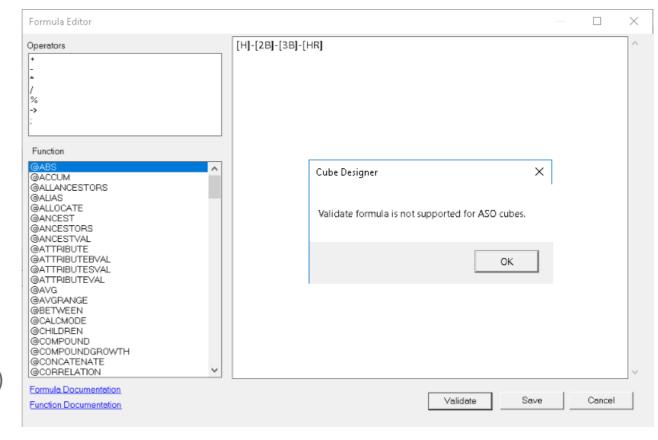
When creating, building, designing a

dimension-hierarchy within the workbook

 Click on the 'Formula Editor' Cube Designer Ribbon button

This allows the ability to use a GUI editor vs in-cell

- Operators
- List of Functions
- Formula window
- Validate .. Or Not (No validation for ASO cubes)
- Save formula changes





OAC DV/BI Connecting Data

Data Sources

- Over 50 data sources
- Oracle and non-Oracle
- ODBC and JDBC
- Files



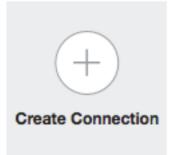
Create

Data Source

Create Data Source

From a File or Connection





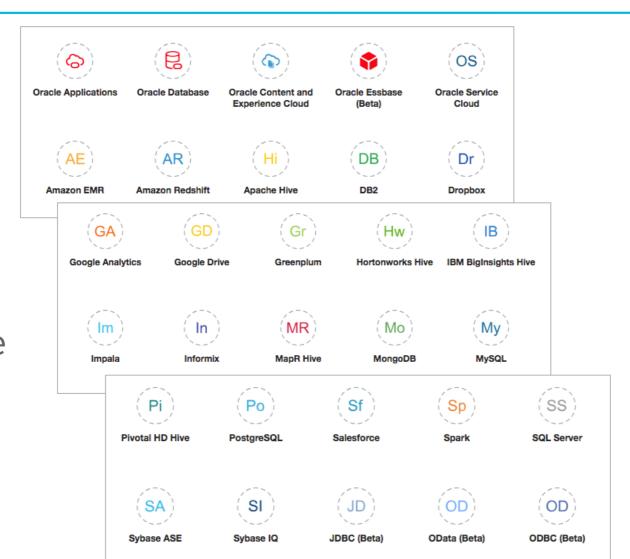
Create Connection



OAC - Connecting Data Data Source Connections

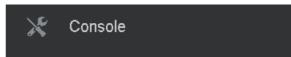


- Oracle
- Amazon
- Google
- Unstructured
- Cloud & more





OAC DV/BI Custom Plug Ins



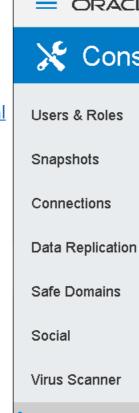


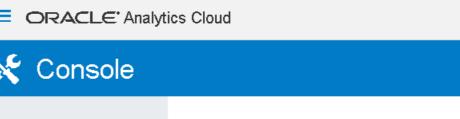
Custom Plugins can be easily added

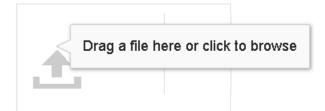
The Oracle Analytics Library

https://www.oracle.com/solutions/business-analytics/data-visualization/library.html

- 1. Navigate to the Console
- 2. download a zip file
- 3. drag & drop or click & browse







Upload Custom Plugin



Custom Plugins



OAC DV & Essbase as a Pod Connect DV to OAC Essbase



Access Rules .. Add 2 New Rules

Steps:

- 1. My Services
- 2. Oracle Analytics Cloud service
- 3. Open Service Console (action menu)
- 4. Click EssbaseServiceName
- 5. Add Rules
- + Agent PUBLIC-INTERNET BI_ANALYTIC_SERVER 1423 TCP USER
- + Server 32000-34000

Status	Rule Name	Source	Destination	Ports	Protocol	Description	Rule Type	Actions
*	Agent	PUBLIC-INTERNET	BI_ANALYTIC_SERVER	1423	TCP		USER	≣
*	Server	PUBLIC-INTERNET	BI_ANALYTIC_SERVER 3	2000-34000	TCP		USER	≡





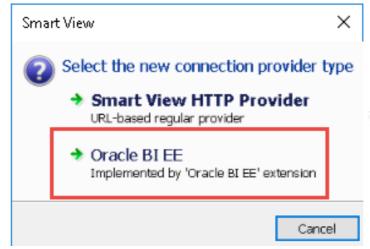
OAC - DV plus BI Data Visualization in Smart View

Open Classic Home...

How do you see your visualizations in Smart View?

- Create Reports using the Classic OBIEE Designer
- Create an **Oracle BI EE** connection

http://host:port/analytics/jbips







OAC DV & Essbase as a Pod Visualizations





Console

- Safe Domains
 - Create new with wildcard check all
- Custom Plugins
 - The Oracle Analytics Library -> https://www.oracle.com/solutions/business-analytics/data-visualization/library.html

Safe Domains

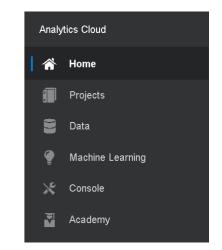
Custom Plugins

- Upload Custom Plugin
- Drag & Drop

	DE1990s	DE1980s	DE1960s	DE1930s	DE1940s
DE2000s				DE1920s	DE1910s
	DE2010s		DE1950s		DE1880s
				DE1 8 90s	DE1900s









Contact Information



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