Great Lakes Oracle Conference

Oracle Analytics Cloud for the Finance Analyst

Tim German, Qubix

MAY 16 & 17, 2018

CLEVELAND PUBLIC AUDITORIUM, CLEVELAND, OHIO

WWW.NEOOUG.ORG/GLOC

Agenda

- What is OAC?
- Understand how to build Essbase Cloud cubes from unstructured data in Excel
- Learn the capabilities of the Excel Cube Designer plug-in to build / refine Essbase Cloud models
- Learn how to connect Data Visualization to Essbase Cloud
- Learn how to add more meaningful visualizations than are possible in Excel via Data Visualization
- Understand why these new capabilities are valuable for performance of daily work
- Q&A



Presenter

• Tim German 🏟 ORACLE



- 20 years experience with Essbase and Oracle EPM / BI
- Oracle ACE since 2015
- www.cubecoder.com
- @CubeCoderDotCom
- https://community.oracle.com/ people/TimG





- Oracle Analytics Cloud
- Released March 17th 2017
- Multiple versions
- All contain...
 - –Essbase Cloud (aka EssCS)
 - -Data Visualization
 - -Synopsis Mobile App



- Still the "core" Essbase engine
- New interfaces
- New pricing / licensing model
- New capabilities
 - -Sandboxing / Scenario management
 - -Smart View prompts



- Optionally...
 - -Big Data Cloud Service
 - -Oracle Business Intelligence (OBI)
- Oracle say...

"a single platform that empowers your entire organization to ask any question of any data in any environment on any device."





For Finance Analysts -Essbase is key! -Reporting in Excel -But also Data Visualization



• What is Essbase?

- World's Greatest OLAP (On-Line Analytical Processing) Database
- Multidimensional
- Aggregation and Calculation
- Facilitates Modeling



Multidimensionality



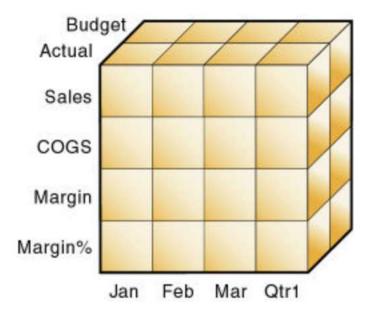
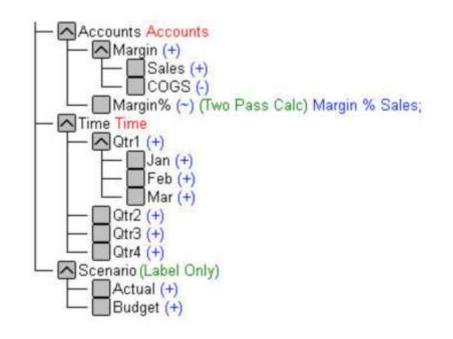


Figure 14. A Multidimensional Database Outline







- History of Essbase
 1002 v1
- 1992 v1
- Began as extension to spreadsheets
- Lived in Finance

Arbor -> Hyperion -> Oracle



Essbase Cloud

- New Excel-based tools to let users develop and share models
 - "Cube Designer" plug-in
 - Unstructured data import
- Bundled with Data Visualization (DV)





- Traditional Essbase build process
 - –Identify dimensions
 - Define structures
 - –Import structures (aka 'metadata')
 - -Load data
- Uses IT-centric tools
- Suited to 'curated' production systems
- Does not maximize cloud potential



- Essbase Cloud can interpret Excel workbooks in data dump format
- Columnar *structure* required
- Identifies data and metadata (dimensionality)
- Creates Essbase cube shareable, extendable, modifiable



1	A	В	C	D	E	F	G	Н	1	J	K
1	Units	Discounts	Fixed Costs	Variable Costs	Revenue	Month	Quarter	Years	Region	Area	Country
2	9	23.94	72.74	368.58	375.43	February	Qtr 1	CY2015	EMEA	North Africa	Morocco
3	10	0	367.44	372.47	1896	May	Qtr 2	CY2015	EMEA	Northern	United Kingdom
4	9	1.41	7.53	36.1	37.52	March	Qtr 1	CY2015	AMERICAS	Central	Panama
5	13	26.29	111.06	484.11	1401.8	December	Qtr 4	CY2014	AMERICAS	Central	Jamaica
6	12	20.83	195.45	818.08	2218.7	July	Qtr 3	CY2015	AMERICAS	South America	Peru
7	8	17.03	55.86	205.73	697.57	November	Qtr 4	CY2015	APAC	North	Russia
8	10	31.45	108.32	329.57	1117.8	June	Qtr 2	CY2015	AMERICAS	Central	El Salvador
9	5	14.74	207.26	650.77	523.22	April	Qtr 2	CY2014	AMERICAS	South America	Brazil
10	10	20	168.83	1104.13	1065.6	June	Qtr 2	CY2014	AMERICAS	South America	Uruguay
11	9	1.86	9.14	28.7	45.56	February	Qtr 1	CY2015	EMEA	Northern	Finland
12	19	0	354.48	33.84	232.03	January	Qtr 1	CY2016	APAC	West	India
13	12	83.24	266.75	20055.8	3223.1	September	Qtr 3	CY2015	APAC	West	India
14	10	60.09	413.4	2096.37	2133.1	May	Qtr 2	CY2015	APAC	North	Mongolia
15	4	0.53	24.97	1.93	16.58	February	Qtr 1	CY2014	EMEA	Africa	Nigeria
16	4	0.49	2.73	17.49	17.22	November	Qtr 4	CY2014	AMERICAS	North America	United States
17	10	0	243.55	1235.4	1256.7	October	Qtr 4	CY2015	EMEA	Europe	Switzerland
18	12	24.5	114.9	452.43	1304.2	July	Qtr 3	CY2015	EMEA	Middle East	Lebanon
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- Data is instantly available
- Dimensionally structured
- Aggregated
- Visible in Smart View for analysis
- Formulae... ... one day?





ALC: NOT THE OWNER

TAXABLE INC. INC.

- Export back out into...
- Cube Designer!

port Cube		×	:		
		Export Close			
Application TRG_App Cube Sales					
Data Calculation Scripts the data size exceeds 1 MB, the data is saved in a compressed file in the data Show Advanced	Export to <u>Server</u> atabase directory and is not included in the	e exported Excel file.		•	
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Years_Dim	None	Parent-Child ~	mport	Q <u>R</u> efresh	Cop Dele
Product	None	Parent-Child ~			
Channel_Dim	None	Parent-Child ~			
Channel_Dim Time	None	Parent-Child ~			



1	A	В	C	D	E	
1	Application Name	Sample_Tal	ble_2			
2	Database Name	Sales				
3	Version	1.0				_
4						_
5	Dimension Definitions					
6						
7	-	Dimension Type	Storage Type	Outline Order	Base Dimension	
8	Measures	Accounts	Dense	1		
9	Time	Regular	Sparse	2		
10	Regions	Regular	Sparse	3		
11	Product	Regular	Sparse	4		
12	Years_Dim	Regular	Sparse	5		
13	Channel_Dim	Regular	Sparse	6		
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TAXABLE INC. INC.

- More flexible / direct control of cube structure
- More control of settings / storage parameters
- From scratch or from unstructured





- Getting Started
 - -Download Plug-In
 - -Connect Smart View so Plug-In recognizes connection





- Create a new cube
 - -Empty Template
 - -Set, name and order dimensions



- Developing the Cube Structure
 - -Cube-level settings
 - Dimension-level settings (tagging as time and so on)
 - -Define dimension structure / hierarchies
 - -Even add formulas...





- Push to the Cloud!
 - -Save template
 - -Push to server
 - -Review...





- Navigate to DV URL
- Create New Connection
- Create New Data Source



- Create New Project
- Add Data Source

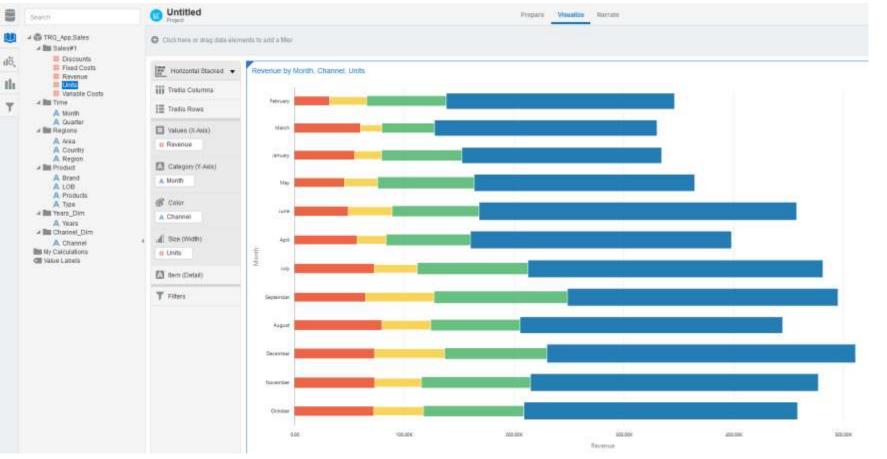


- Three step process
 - -Prepare
 - -Visualize
 - -Narrate





• Some Visualization types are familiar





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TRACE BY AN ADDRESS

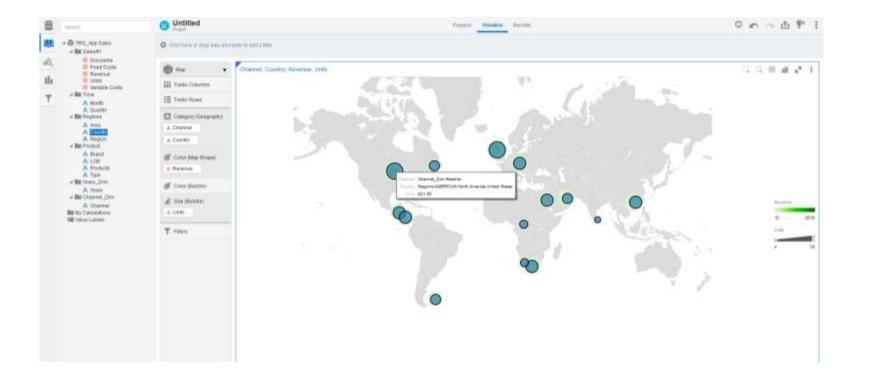
• Treemap





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• "Real" maps!

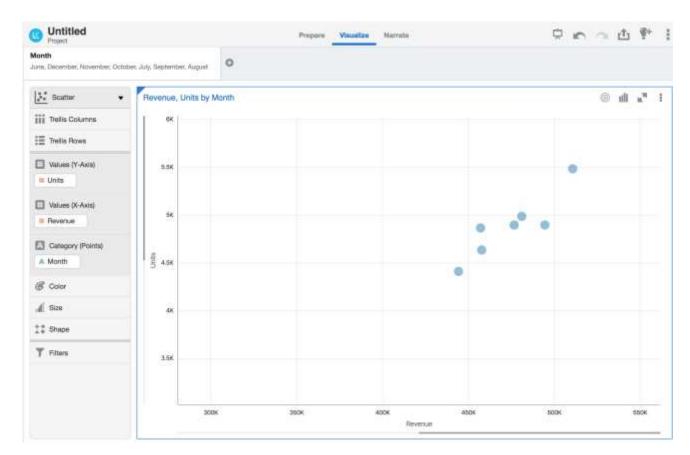




STATE OF TAXABLE

"drilldown"

Automatic visualization select and easy filters for





- And more...
 - -Trend forecast
 - -Regression analysis
 - –Machine Learning explanation and prediction
 - -Mashups
 - -Automatic narrative generation



Daily Value



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Daily Value

- Essbase back in the hands of power users and analysts retaining enterprise grade security etc
- Faster and more flexible modeling via Sandboxing and Hybrid
- Mash-up capabilities
- More compelling and meaningful visualizations
- More sharing
- Faster to insight





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