

SOFTWARE SOLUTIONS

Oracle BI 12.2.1.1 New Features

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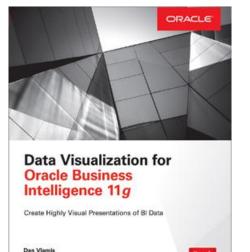
Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence
 - Data 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 11g"
- Co-author of book "Oracle Essbase & Oracle OLAP"
- Oracle University Partner
- Oracle Gold Partner





Specialized Oracle Business Intelligence Foundation Suite 11g



Oracle ACE Dirach

Tim Vlami

ORACLE APPROVED





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OBIEE and BICS 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: <u>Oracle BI 11.1.1.5 New Features</u>
- 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
 - BI Mobile rewrite
 - 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

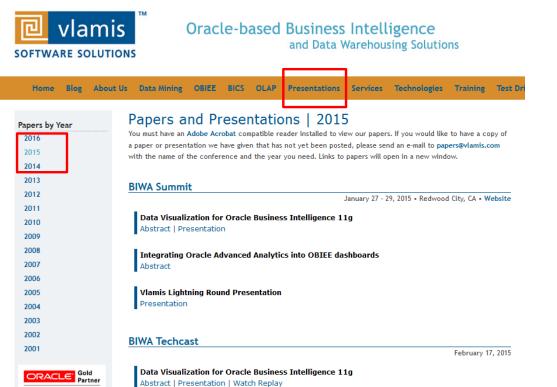
- 11.1.1.9 (May 2015)
 - BIWA TechCast Jun 4, 2015 Oracle BI 11.1.1.9 New Features
 - Search in Subject Areas pane
 - New Treemap view
 - Global variables and Save Column As choice in Criteria tab
- 12.2.1 (October 2015)
 - BIWA TechCast Nov 19, 2015 Oracle BI 12.2.1 New Features
 - Alta UI Skin, new home page
 - Visual Analyzer and Data Mashup
- BICS March 2016 (March 2016)
 - Webcast Apr 5, 2016 BICS <u>BICS March 2016 New Features</u>
- 12.2.1.1 (June 2016)
 - BIWA TechCast Jul 19, 2016 Oracle BI 12.2.1.1 New Features
 - New Visualizations in VA
 - Dashboard Subpages
 - New Data Wrangling features
 - BI Publisher and MapViewer enhancements





Use Questions or Chat or Questions to communicate



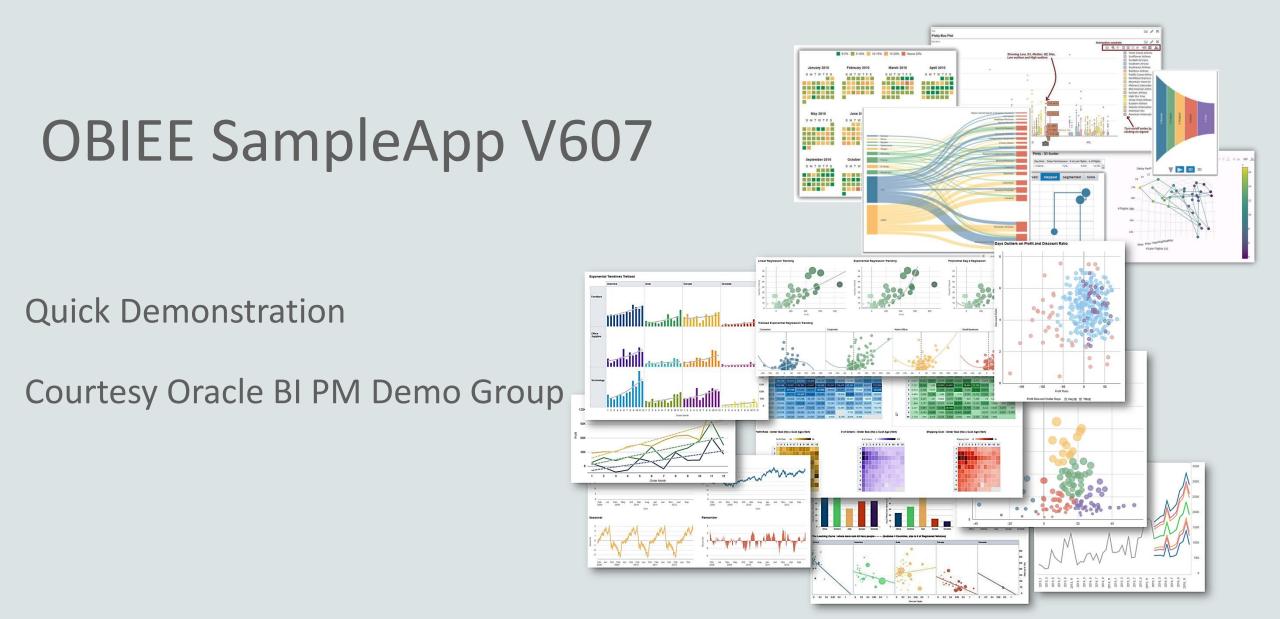






Foundation Suite 11g

Specialized Oracle Business Intelligence





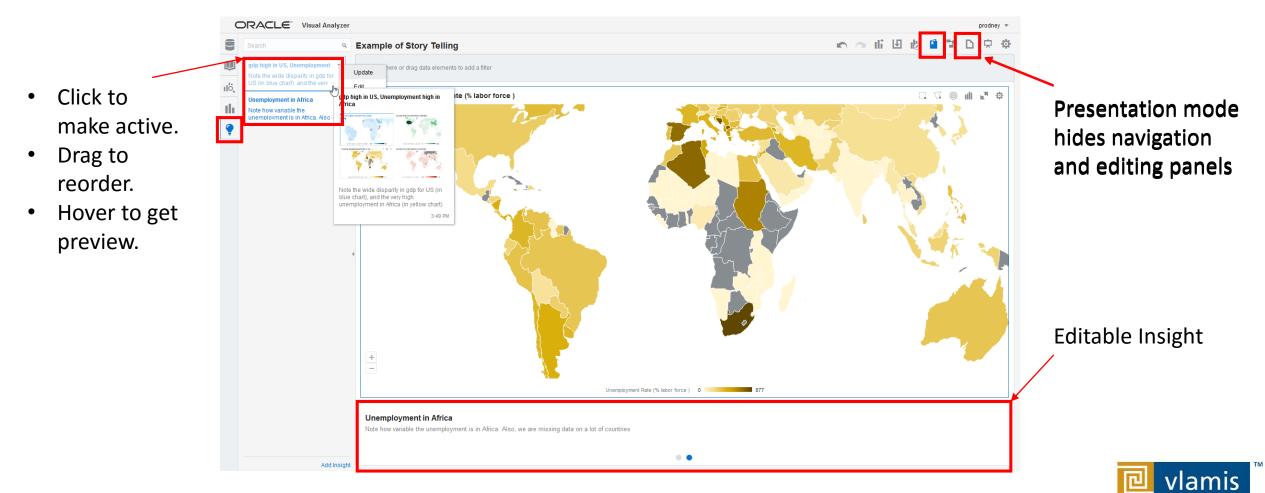
High Level List of New Features

- First patch release of 12c
- Feature parity with BICS and DVCS
- More VA data visualization enhancements
- Data Wrangling Transformations associated with a data set
- New Data Sources & Permissions
- Data Blending XSA XSA Sources
- Dashboard Subpages
- Detailed Upgrade Guide
- New Baseline Validation Tool (BVT) features
- BI Publisher amd MapViewer Enhancements



Story Telling and Insight Enhancements

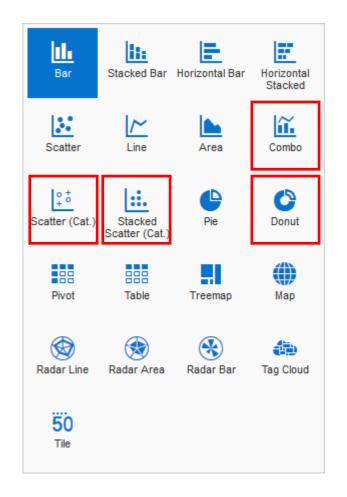
BICS and DVCS VA Feature Parity – Story Telling



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New Visualizations in VA

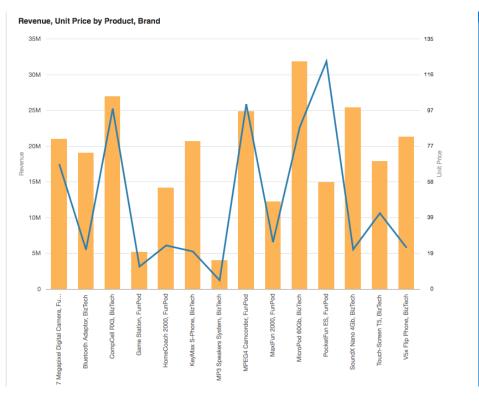
- Combo (with dual axes)
- Scatter (Cat.)
- Stacked Scatter (Cat.)
- Donut

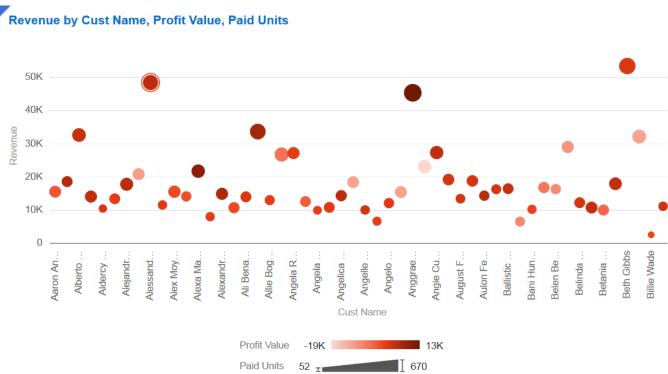




New Visualizations in VA

- Combo (with dual axes)
- Scatter with categorical X axis (and stacked scatter)

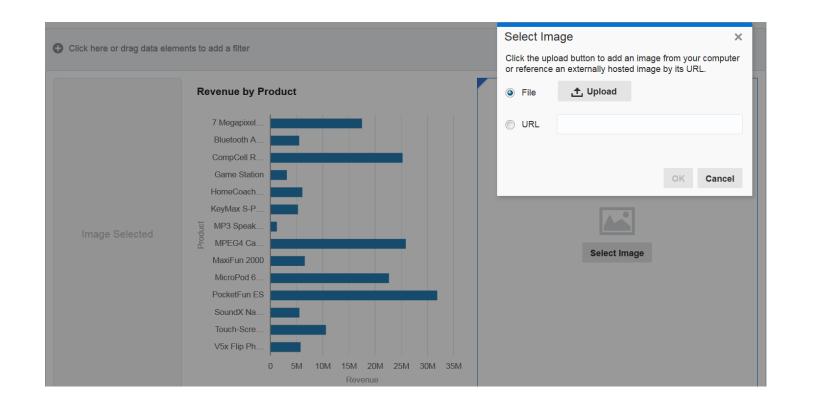


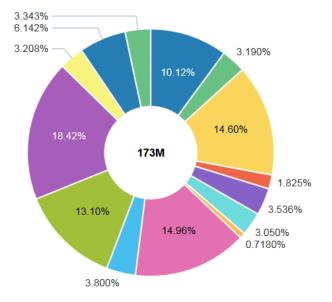




New Visualizations in VA

- Donut
- Images

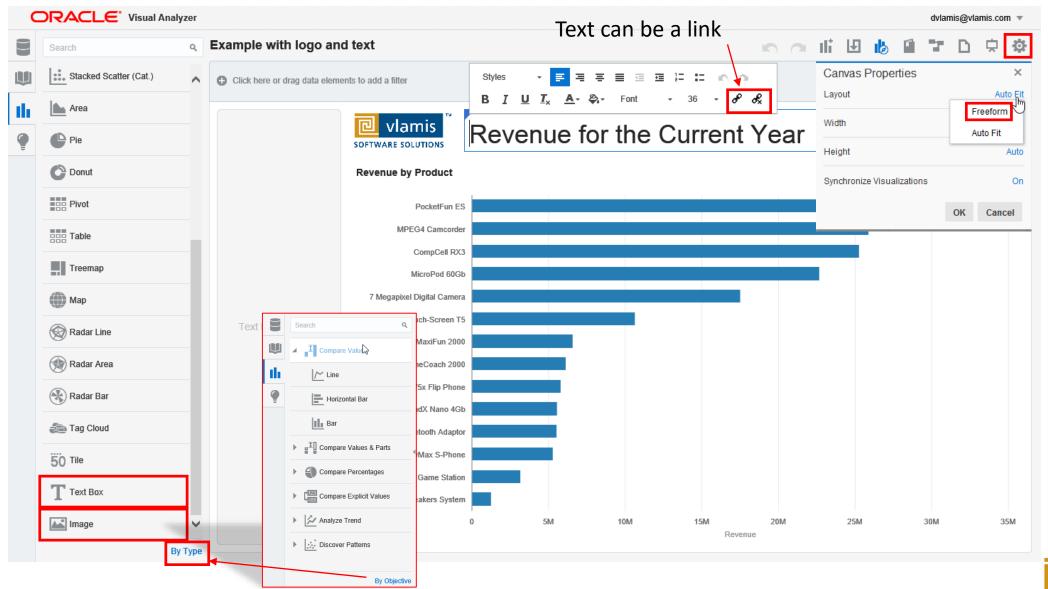






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Images and Text Allow For Dashboards



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Enhancements in VA

- Improved Filtering
- Zoom on viz
- "Drill Down on" Anywhere
- Improved color selector

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18,297.00	76 31	1 675 035 51	17,867.0
	Drill to Ord	ler Number, Quarter	
8,546.00	Dimito ore	for Humber, additor	10,543.0
22,625.00	Drill		30,241.0
14,689.00	Keep Sele	cted	16,788.0
6,215.00	Remove S	elected	6,225.0
17,550.00	Properties		18,234.0
11,748.00	Color	I	10,438.0
17,074.00	48.79	917,719.25	16,404.0
46,047.00	45.74	2,928,013.21	51,182.00



Enhancements in VA

New option in VA to source data sets from Fusion SaaS applications (user specifies URL and login info) or external sources (lots!)

Create New Project - Select S	Create New Data Source	Create New Data Source			Add a New Connection			
Subject Areas Data Sets					Oracle Database			
Search	٩ 🖬							
SampleApp		1			*New Connection Name	(e.g) My Connection		
					Database Type	Oracle Oracle		
		From a File Select an Excel file containing data	From Oracle Applications Select an Analysis containing the	From Database Select a database containing the	*Host	Spark		
		you want to analyze by clicking the button above or dragging the file	data you want to visualize.	data you want to visualize.	*Port			
		into this window.			*Username	D2 DB2		
					*Password	leradata		
					*Service Name	Redshift (Beta)		
	Create Project Cancel	<		Cancel	<	Impala (Beta)	Save Cancel	
						MongoDB (Beta)		
						SI Sybase IQ (Beta)		



St Salesforce (Beta)

Oracle BI 12c 12.2.1.1

- Data Wrangling
 - Transformations associated with a data set
 - Wrangling interface available on the Stage (VA has Canvas and Stage)
 - Commonly used transforms are available via UI
 - Can write custom transforms directly in to the expression Editor





Untitled - Oracle Data Visualization Desktop

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				Sentence Case	Grp-D		6/12/2	016 12:00:00 AM	Hide	0		Create Column
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			; Ukraine	Germany	Grp-(Math		0
			Czech Rep	Spain	Grp-[Calendar/Date Conversion 		0
			Spain	Czech Rep	Grp-[Cast		1
			Rep Ireland	Sweden	Grp-E					IfNull Expressions		0
			; Sweden	Rep Ireland	Grp-E							0
			Belgium	Italy	Grp-E					value to another data type.		0
			Italy	Belgium	Grp-E					CAST(expr AS type) expr is any expression.	11	1
	Source Diagram Ad	ld Data Source	4			Valio	date	Save	Cancel	type is any datatype. Example: CAST(hiredate AS CHAR(4	40)) *	•

Oracle BI 12c 12.2.1.1

• Permissions on Data Sources

Data Source - Players_Points_Lat			×
Overview Permissions			
Users Roles Search Q	Selections	Permissions	
📩 LCMUser	🛓 weblogic	Full Control	×
🎍 OracleSystemUser			
		0	K Cancel

• New Data Sources

Add a New Connection		
Oracle Database		
*New Connection Name	(e.g) My Connection	
Database Type	Oracle	
*Host	Oracle	
	Spark	
*Port	SS SQL Server	
*Username	D2 DB2	
*Password	MySQL	
	Teradata	
*Service Name	Redshift (Beta)	
4	Hive (Beta)	Save Cancel
<	Impala (Beta)	Save Galicel
	MongoDB (Beta)	
	SI Sybase IQ (Beta)	
	Salesforce (Beta)	



Answers and Dashboards

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Visualizations Simple Visuals Treemap Trellis Wat	terfall Hierarchies Master Details Navi	Home Catalog	Favorites Dashboards	New ▼ Open ▼ Sig	Easi	er Navigation
Dashboard Ob	Column 1		Column 2	Add Subpage		
Column	Section 1		Section 2			
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		 Embedded Content T Text 			Drop Conten	t Have
		Folder				, nere
		✓ Catalog				
		Shared Folders				



BI Publisher 12.2.1.1 New Features

- For End Users
 - Deliver documents to Oracle Document Cloud Service
- For Report Authors
 - Use WebCenter Content as a Data Source
 - Attach PDF to your Invoices
 - Integrate using RESTful APIs
 - Deliver E-mail Body in HTML format along with Report as attachment
- For Administrators
 - Manage Custom Fonts
 - Manage PGP Keys for FTP Delivery Encryption
 - Manage large size reports via Dynamic Memory Guard
 - Manage File Data Security on Cloud via Encryption

Information from BI Publisher Product Management.

See http://www.oracle.com/technetwork/middleware/bi-publisher/new-features-guide-for-12-2-1-1-3074557.pdf



Oracle MapViewer 12.2.1.1 New Features

More deployment options

- Generic EAR file can be deployed to other JEE containers such as Tomcat or GlassFish
- Can now be deployed in generic WebLogic Server (without JRF)
- Web admin console enhancements
 - More streamlined / improvements to page performance and responsiveness
- Dynamic tile layer improved query and rendering performance
- Support for GeoRaster virtual mosaic and LRS themes
- Upgraded support for HERE Maps using HERE V3 API
- Style enhancements: can now have stacked styles on features

Information from MapViewer Product Management.



Oracle Test Drive

- Free to try Oracle BICS, Oracle Advanced Analytics
- Go to www.vlamis.com/td
- Runs on Oracle Cloud
- Test Drives for:
 - Oracle BICS
 - Oracle Advanced Analytics (initially Oracle Data Mining)
 - More test drives to be added
- Once sign up, you can access for 24 hours
- Click by click script included, but can go "off road"
- Faster and easier than official Oracle "trial web account"

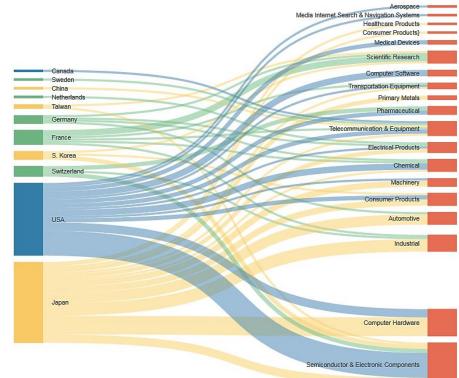


SampleApp V607 : Installed Software

- Oracle Enterprise Linux 6.7 x64
- OBIEE **12.2.1.1**

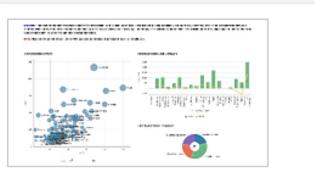
Essbase 12.2.1.1, BVT, Oracle MapViewer 12c, MV Demo Samples

- Oracle Database 12.1.0.2.0 EE (PluggableDB), 04/2016 patchset, APEX 5.0.3 & ORDS 2.0.1, ODM, Oracle Spatial
- ORE 1.4.1 & R-3.1.1
- CDH 5.7, Oracle BDSQL, Spark & Hive Thrift Server
- Utils : Start scripts, MapBuilder 12c, SQLDev 4.1.3

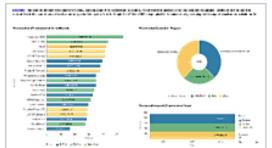


ORACLE

SampleApp V607 : New DV Sourcing Features Data Wrangling



Spark-Online	Sales Ana	ysis
Visual Analyze	Г	12:27 PM

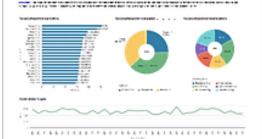


OBIEE-Sales Analysis	5
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Visual Analyzer

	10.00		
1		-	
1	2:26	M	
		 V I	

Oracle DB, Spark, Impala, Hive direct DV sourcing...



OracleDB-Target Revenue A... Visual Analyzer 12:27 PM



Impala-Inventory Analysis Visual Analyzer 12:26 PM

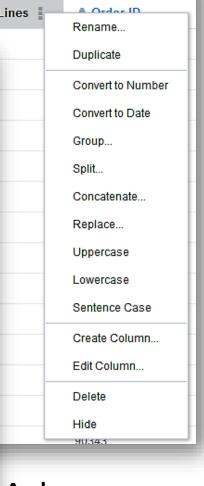


📰 Sample Order Lines 🔻

OracleDB-Flight Delay Analy... Visual Analyzer 12:27 PM



Hive - Customer Sales Analysis Visual Analyzer 12:25 PM





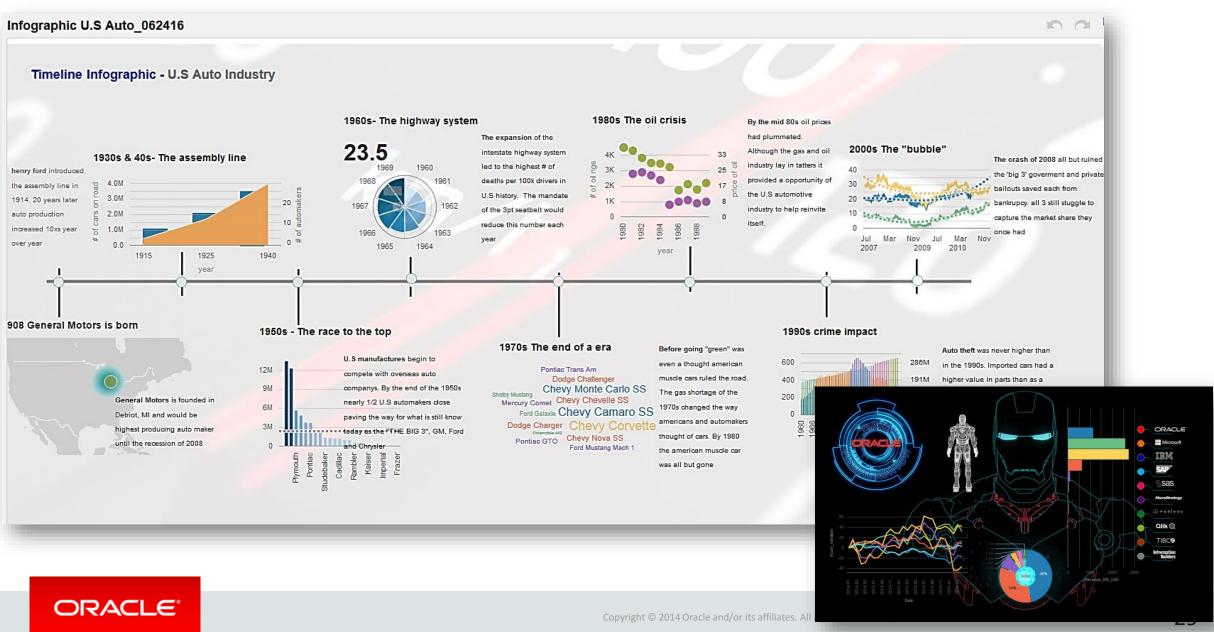
SampleApp V607 : New DV Sourcing Features

ORACLE

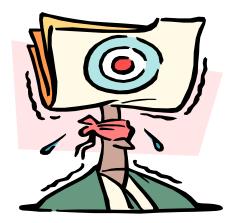
Multiple datasource types **Numerous Connection types** Database Type Oracle Create New Data Source Oracle *Host Spark *Port **Live Connection Flag** SQL Server OTHE. Query Mode Live D2 DB2 *Username Auto - use local cache when possible My MySQL *Password Teradata Live - always use the database From a File From Oracle Applications From Database *Service Name Re Redshift Hive Hive Edit Join type (Data Blending) Impala MongoDB # 1Q SQL Based Sources (including Advanced SQLs) si Sybase IQ Data Source - Flight Delays Data Sets s Salesforce OF Query SQL Overview Data Blending Custom Commit ELIGHTNUM, CARRIER, ORIG AIRPORT DEST AIRPORT FLIGHTDATE AIRTIME, DEPDELAY Join Example P... Matching Rows PREDICTION (FOR ARRDELAY USING DEPDELAY, AIRTIME) OVER () PREDICTED_ARRDELAY FROM FLIGHTS JAN WKT Join Example C... All Rows

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SampleApp V607 : Freeform DV Visualizations



Resources and Questions?



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Vlamis Software Solutions Twitter: @vlamissoftware

Vlamis Home page <u>www.vlamis.com</u> Blog <u>www.vlamis.com/blog</u>

Test Drive <u>www.vlamis.com/td</u> Prior OBIEE releases <u>www.vlamis.com/papers</u>

Oracle BI SampleApp v607 and Resources (August 16, 2016!) http://www.vlamis.com/papers2016/#aug16

Sample App What's New http://www.oracle.com/technetwork/middleware/bi-foundation/obiee-samples-167534.html

YouTube channel BI Tech Demo from SampleApp Team https://www.youtube.com/user/OracleBITechDemos

Fusion Middleware 12c Documentation http://docs.oracle.com/middleware/1221/bisuite/index.html

12.2.1.1 Documentation http://www.oracle.com/technetwork/middleware/bi-enterprise-edition/documentation/bi-ee-087853.html

BICS Demo as part of OTN Summit http://www.vlamis.com/papers2016/#jul12

BIWA Summit 2017 Conference http://www.biwasummit.org

