New Features in Data Visualization Desktop 4

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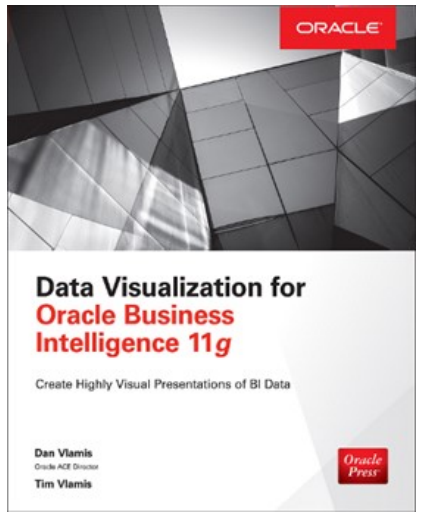
Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
  - Enterprise Business Intelligence & 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 Partner
- Oracle Gold Partner



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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)
  - Webcast Aug 29, 2017 DVD 3.0 New Features
  - New visualizations
  - Additional data sources
  - Enhanced data prep and updated data flows
- DVD 4 (October 2017)
  - Webcast Nov 9, 2017 DVD 4 New Features
  - New Home Page
  - New Visualization control experience
  - New Column controls for date/time, auto-binning
  - New narrate experience
  - New data flow steps, including create Essbase cube step
  - Machine learning
- OAC 4 (?)
  - Webcast Dec 12, 2017 OAC 4 New Features

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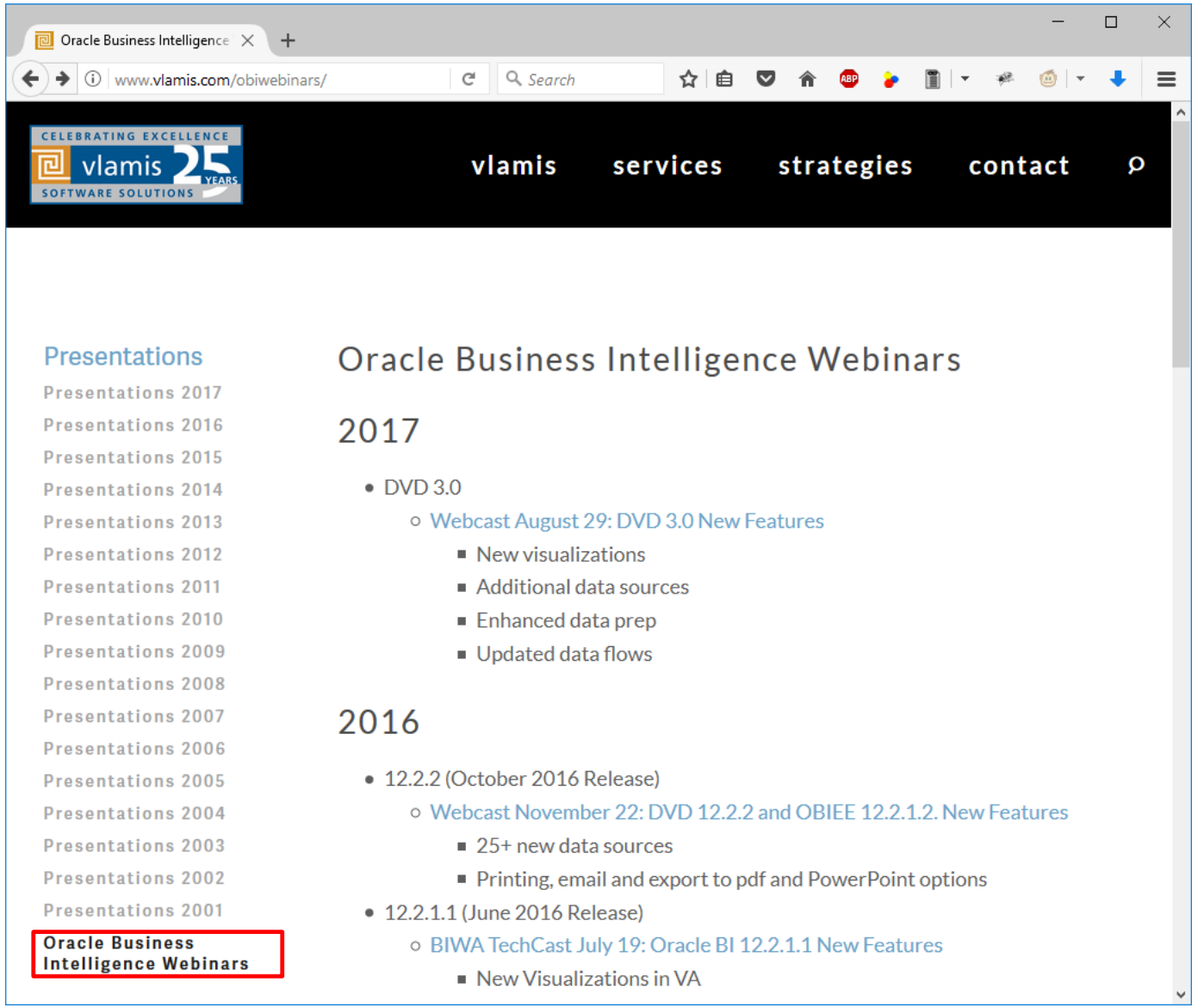
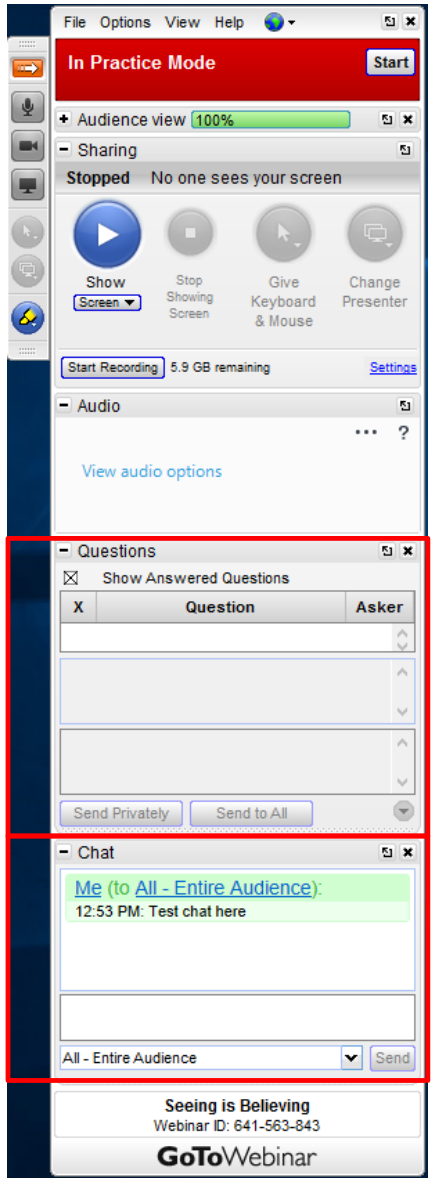
Use Questions or Chat or Questions to communicate





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DV V4 Functional New Features Overview

A. Data Visualizations

1. New Home Page + UI Refresh
   a) *Drag spreadsheet to home page, canvas
2. New Viz control experience
   a) *Properties Pane,
   b) *Copy/Paste/Duplicate,
   c) *Pin Filter to all Canvases
   d) *Data Actions
3. New Column Controls
   a) *Date/Time level set & switch
   b) Show metric as a percentage
   c) *Auto-Binning metrics used as Categories
   d) Automatic Number Type
4. New Project control Features
   a) Rename Connection or Data Source
   b) Unrelated data sources in a project
   c) Data Limit Truncation Warnings
   d) Simplified Project Permissions
5. New Narrate experience
6. Improved Sharing

B. Data-flows

7. New Steps
   a) Merge Rows Step (Set Operator)
   b) Create Essbase Cube Step
   c) *Binning Step
   d) *Grouping Step new UI
   e) Cumulative Aggregate Step
   f) *Filter Step
8. Sequences for Data-flows
9. Customize Name/Description of a step
10. Data-flows Scheduling

C. New Data Sources

11. Oracle Talent Management Cloud
12. Oracle DWCS
13. Oracle BDCS-CE

D. BI Publisher in OAC

14. BIP Ability to consume XSAs

E. Essbase Specific new features

F. Machine Learning

15. *ML Attributes Explain Feature
16. ML Train & Apply OOB Models
    a) Sentiment
    b) Numeric prediction
    c) Multi Classifier
    d) Clustering
    e) Binary Classifier
17. ML Custom Scripts upload & Apply
18. ML Model Scenarios

Admin / Console

19. Content Embedding
20. Data Replication
21. Emails Deliveries
22. Map-viewer Console
23. Import / export TCM models
24. Public API Support

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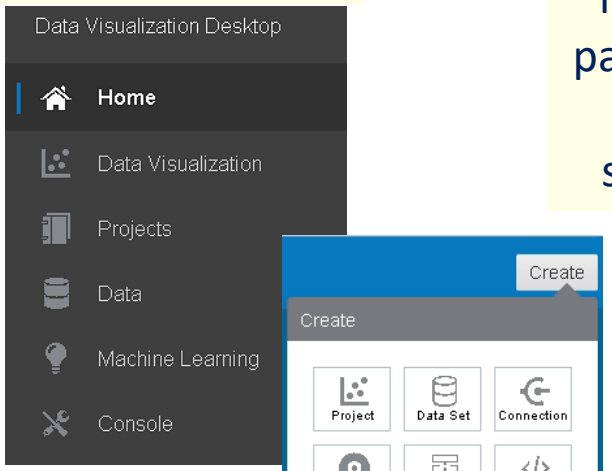
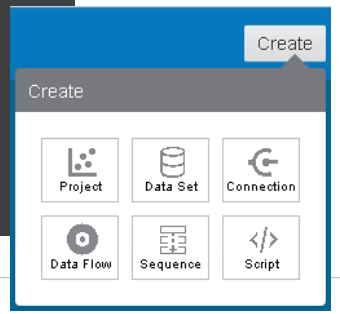
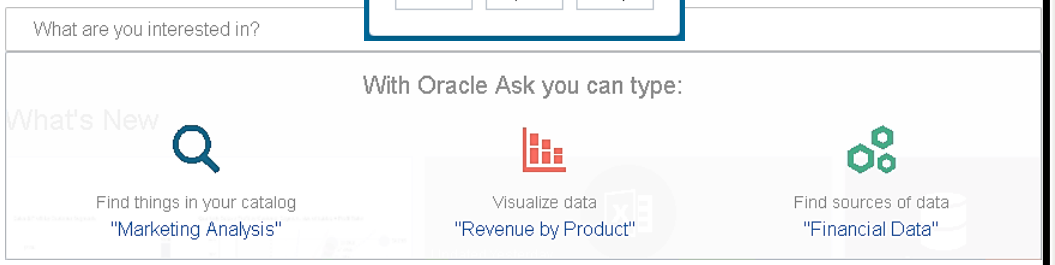
1 - New Home Page + UI Refresh

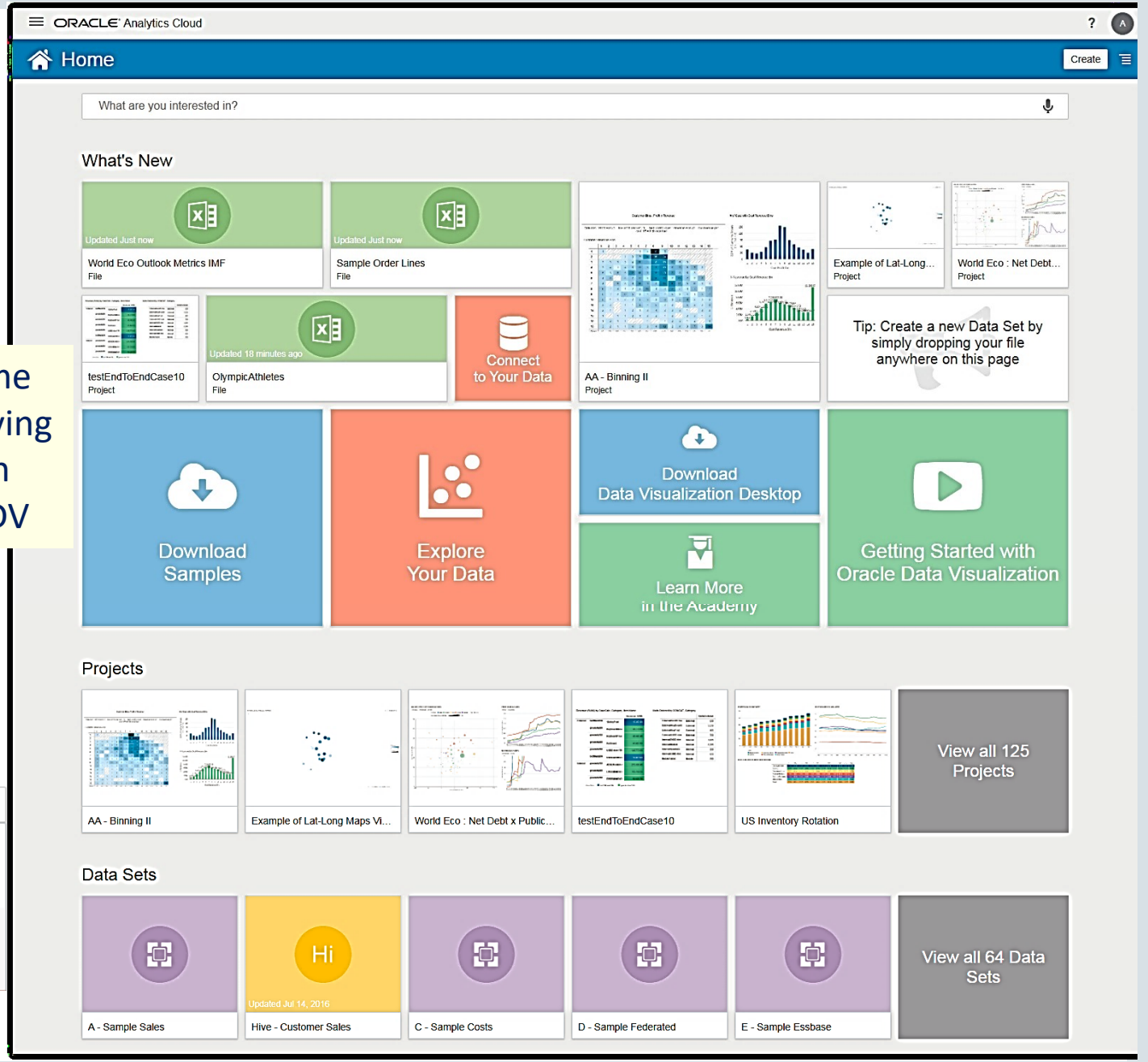
Full, more end-user intuitive Alta-based UI refresh

New adaptive home page with self evolving content based on specific usage of DV









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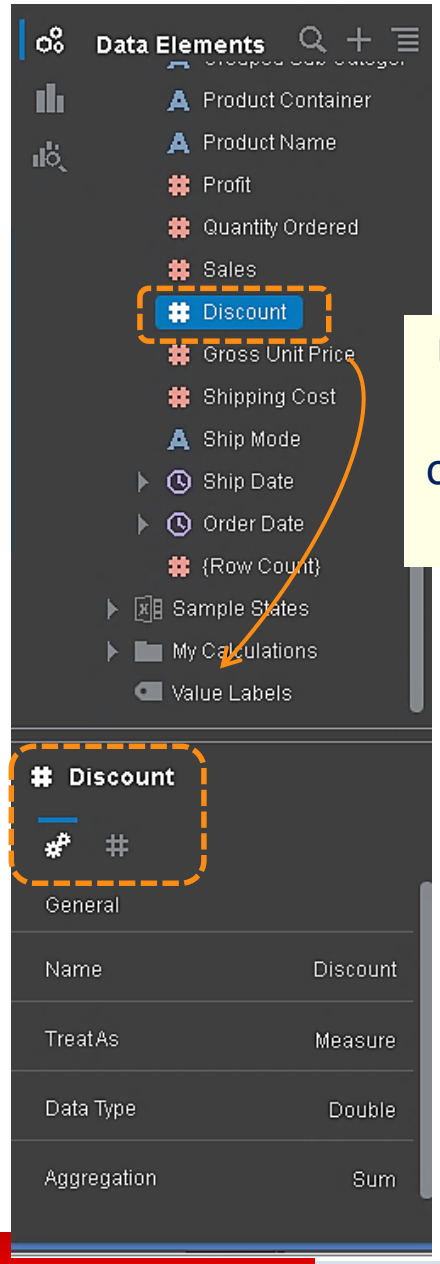
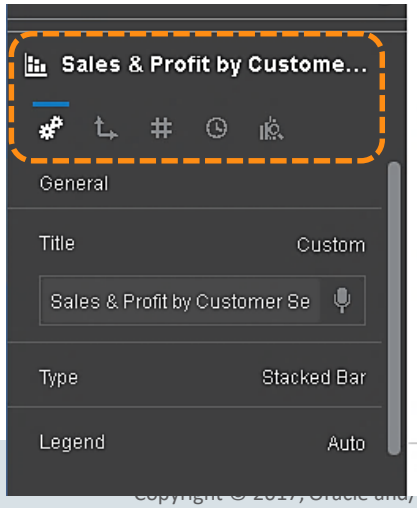
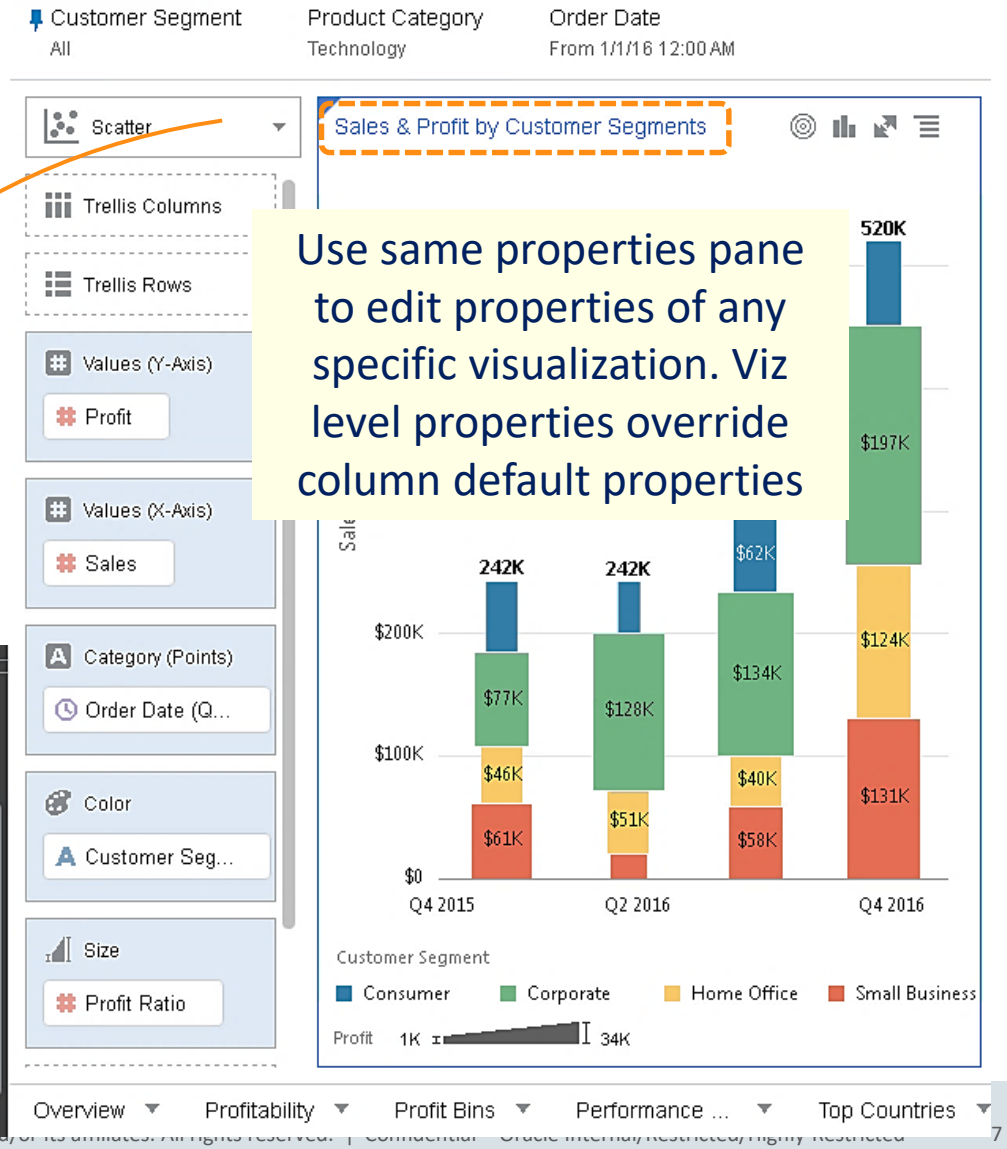
2 – New Viz Controls : Properties Pane for Columns and Viz



Use properties pane to edit default properties of any object (Type, Agg rule, format, level…)



Use same properties pane to edit properties of any specific visualization. Viz level properties override column default properties



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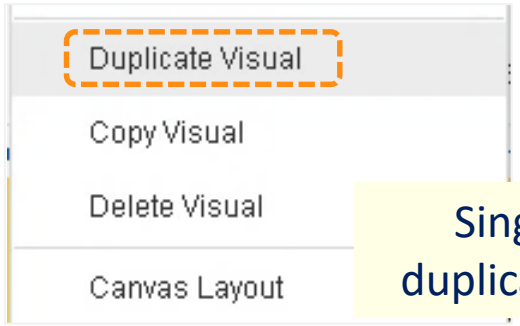
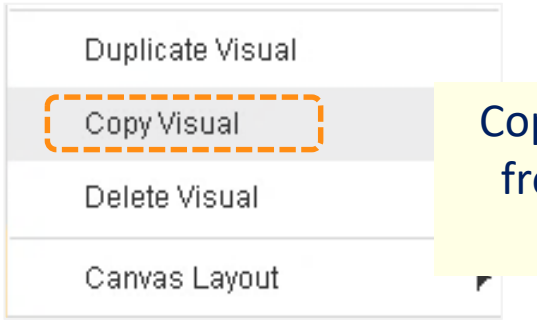
2 – Cross Canvas Copy/Paste, Viz Duplication Pin/Un-pin filter to all Canvases

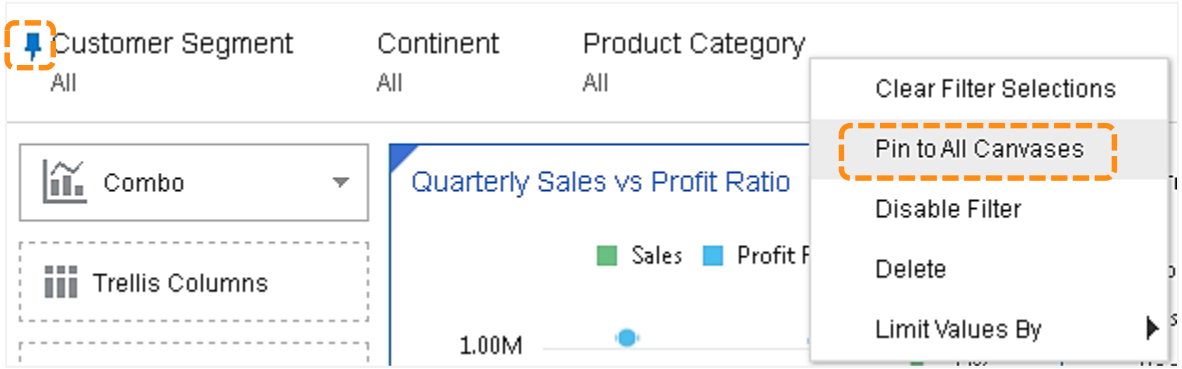


Single Click duplicate-visuals



Copy paste any visual from one canvas to another canvas

Pin or un-pin single filter for whole project or for a single canvas



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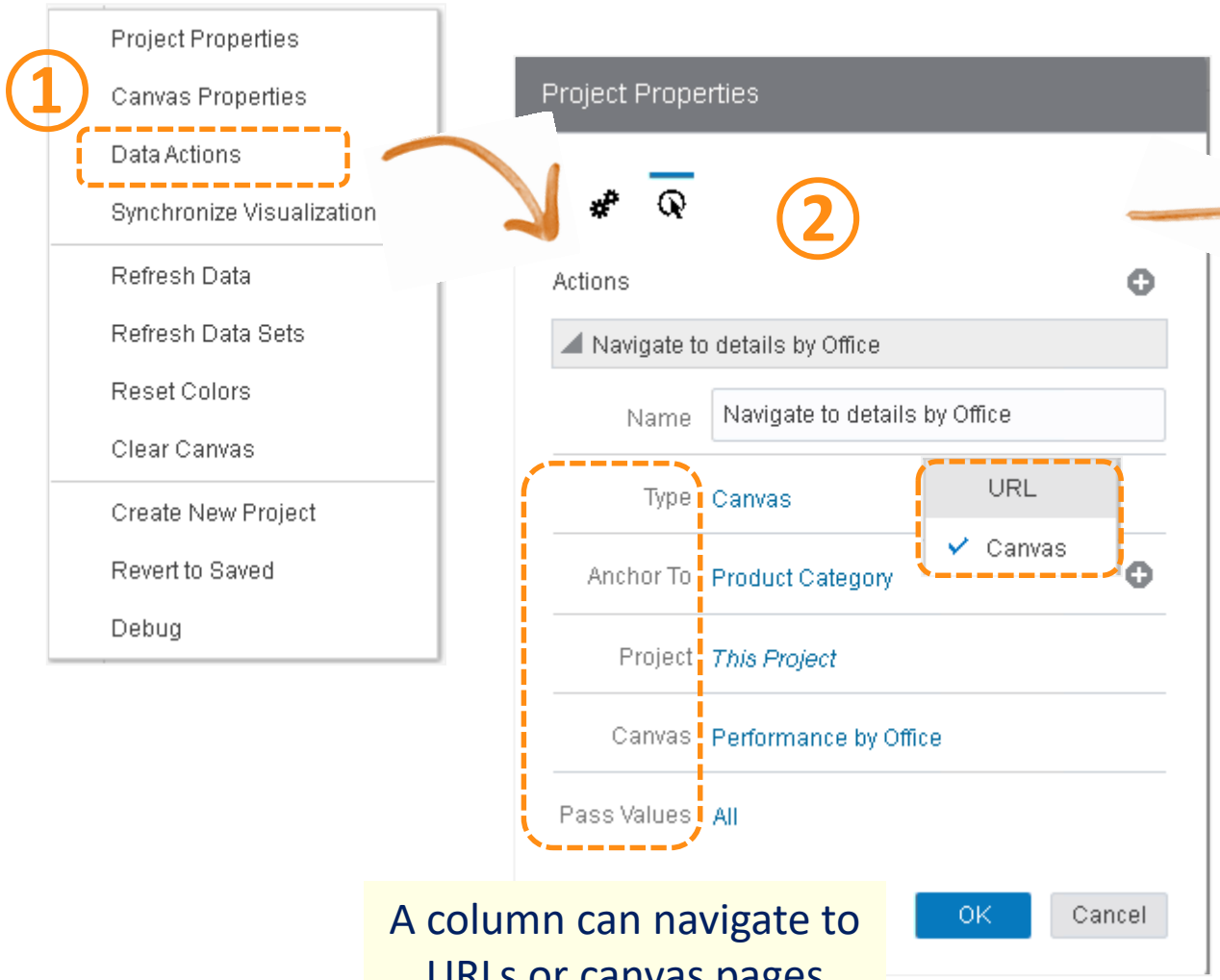
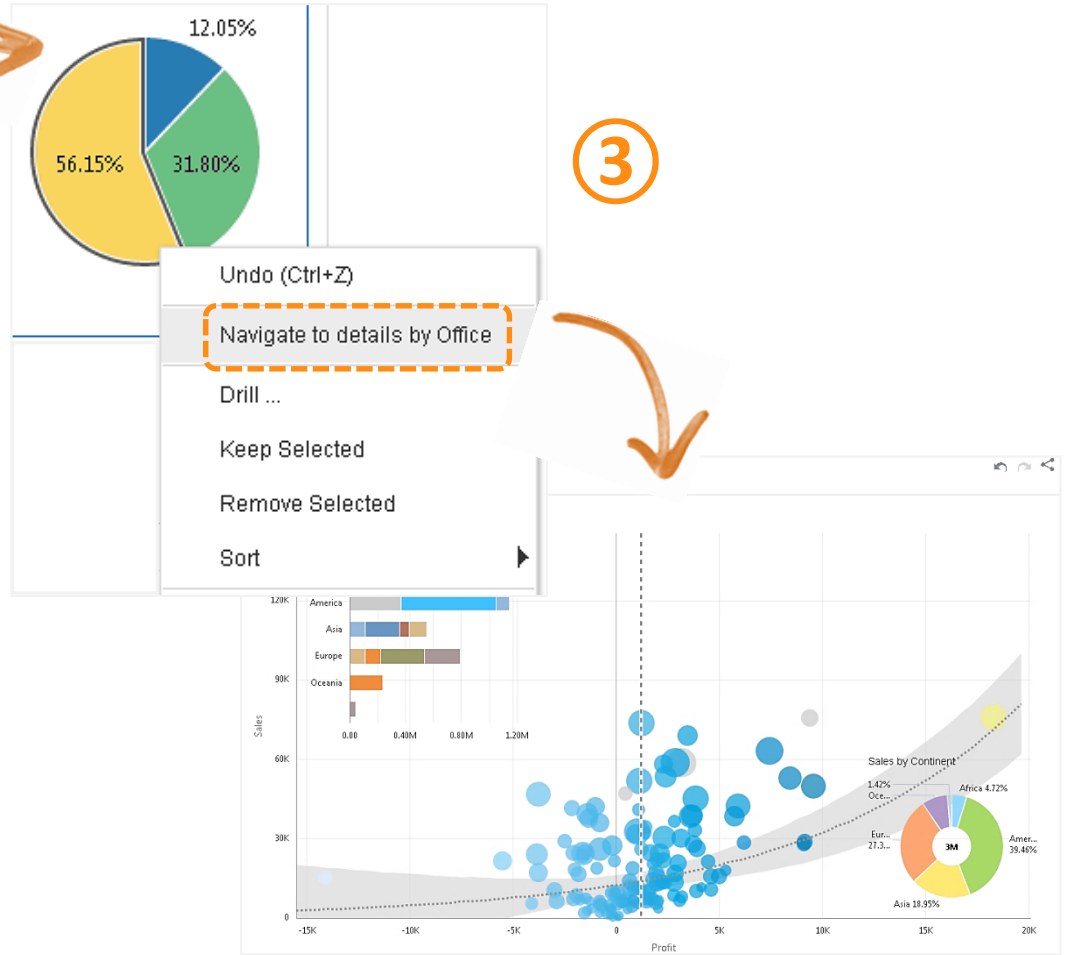
2 - Data Actions

Configure multiple Navigation targets for each column object in your project.





A column can navigate to URLs or canvas pages passing contextual values

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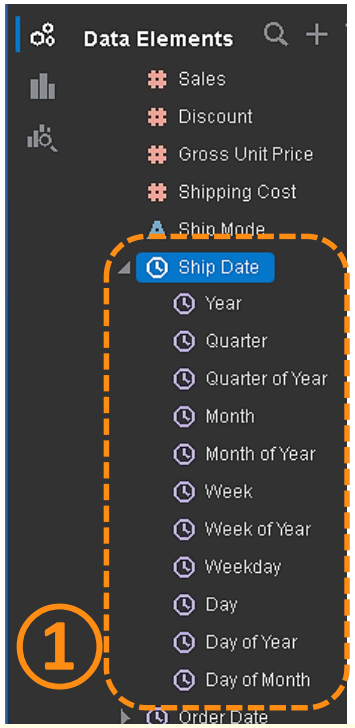
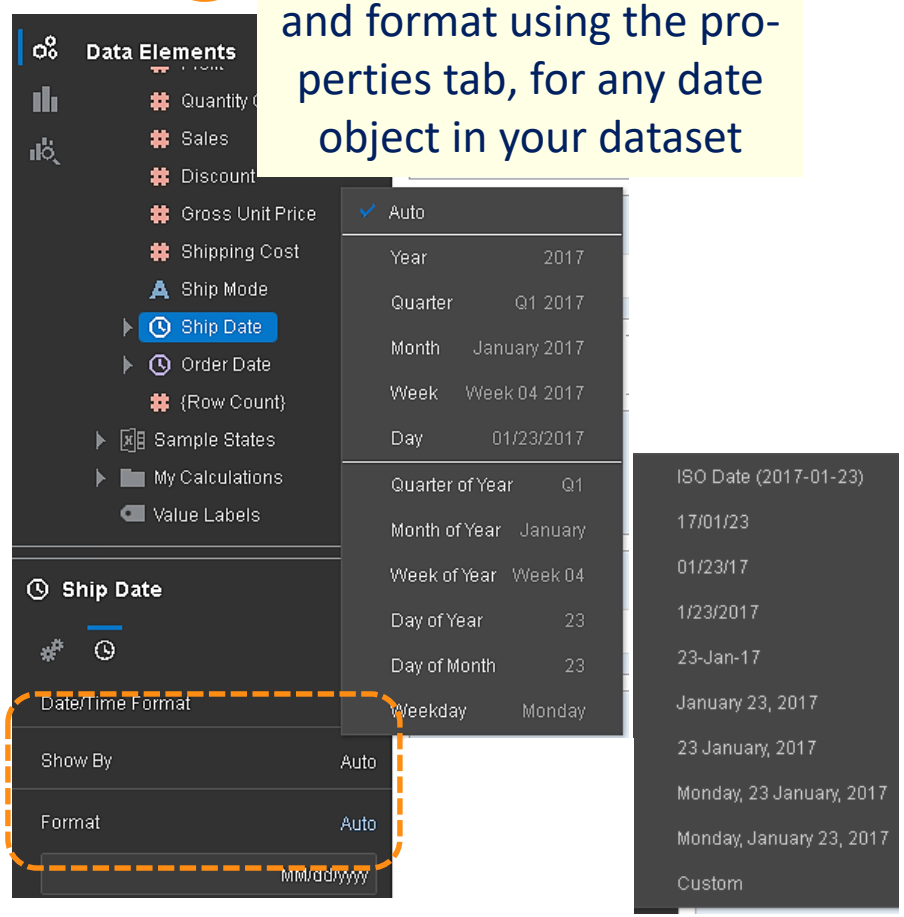
3 – New Columns Control : Date/Time level set & switch

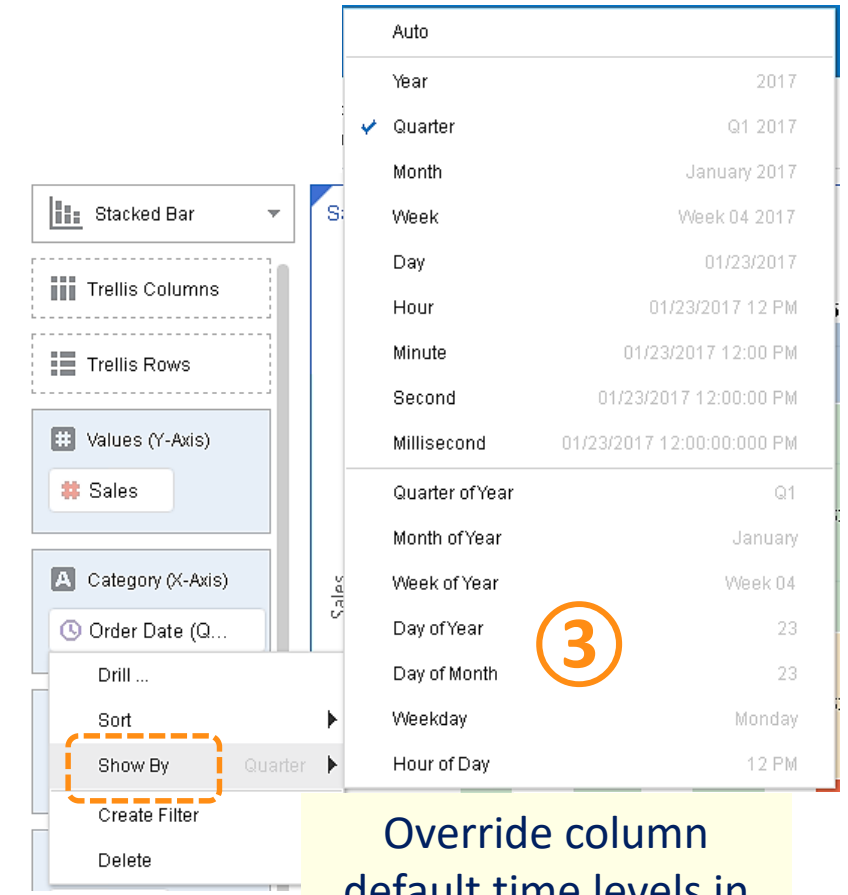


Time level options show by default for any single time object in your data-set.

2

Modify default time level and format using the pro-perties tab, for any date object in your dataset





Override column default time levels in each visualization

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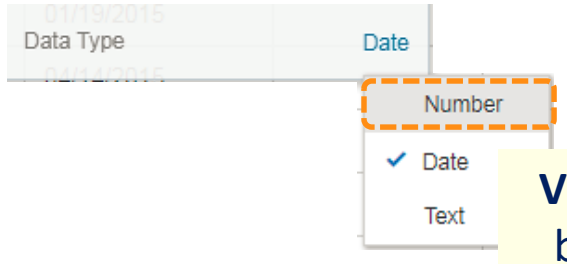
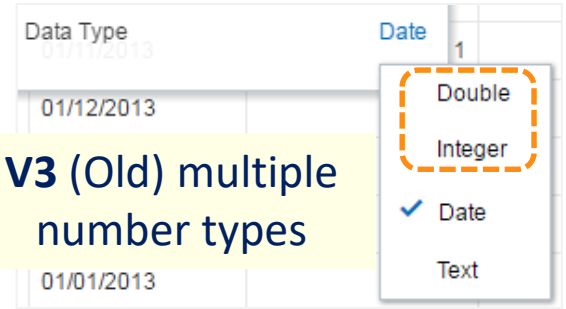
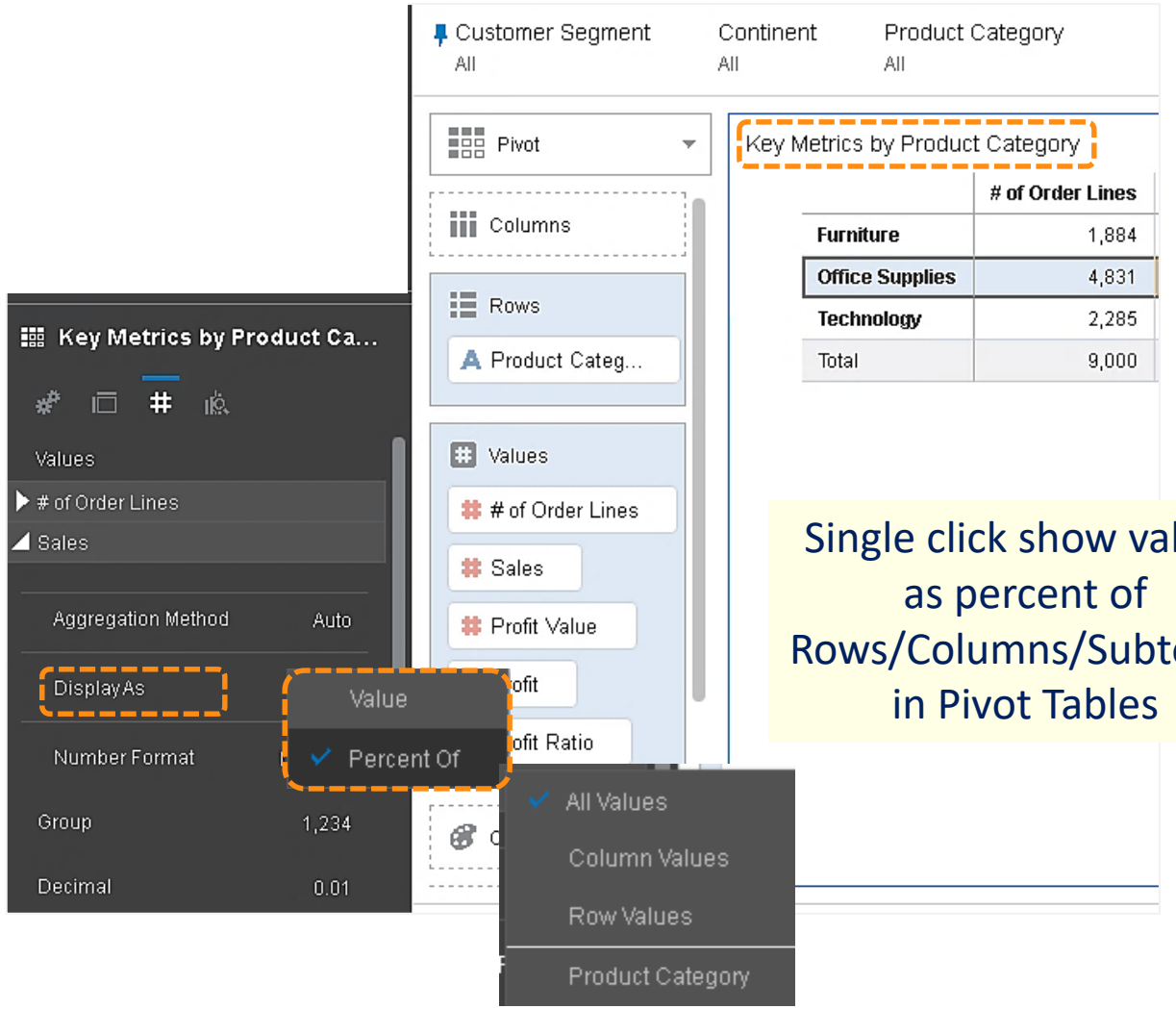
3 – New Columns Control : Show as percent of column, Automatic Number Type



V4 single Number data Type



V3 (Old) multiple number types



Single click show values as percent of Rows/Columns/Subtotals in Pivot Tables

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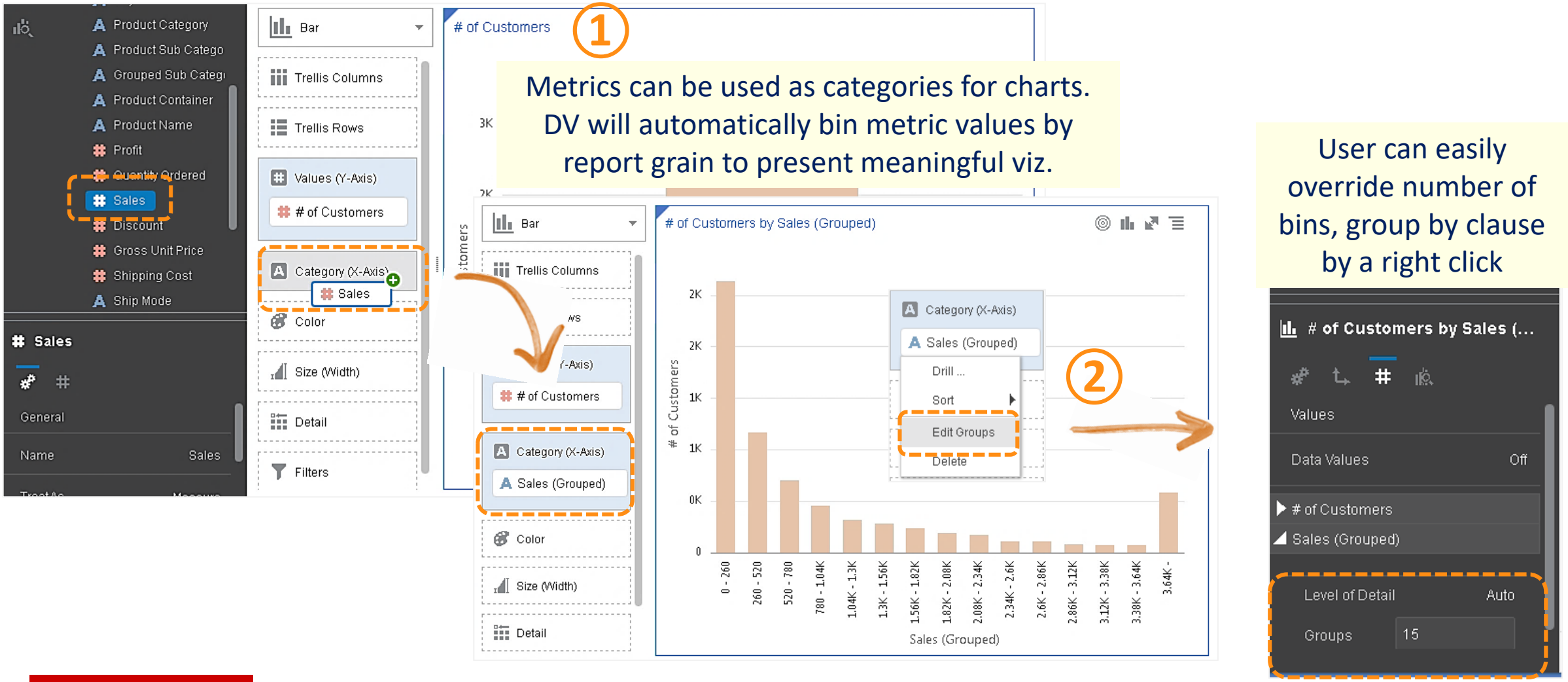
3 – New Columns Control : Auto-Binning of metrics when used as Categories



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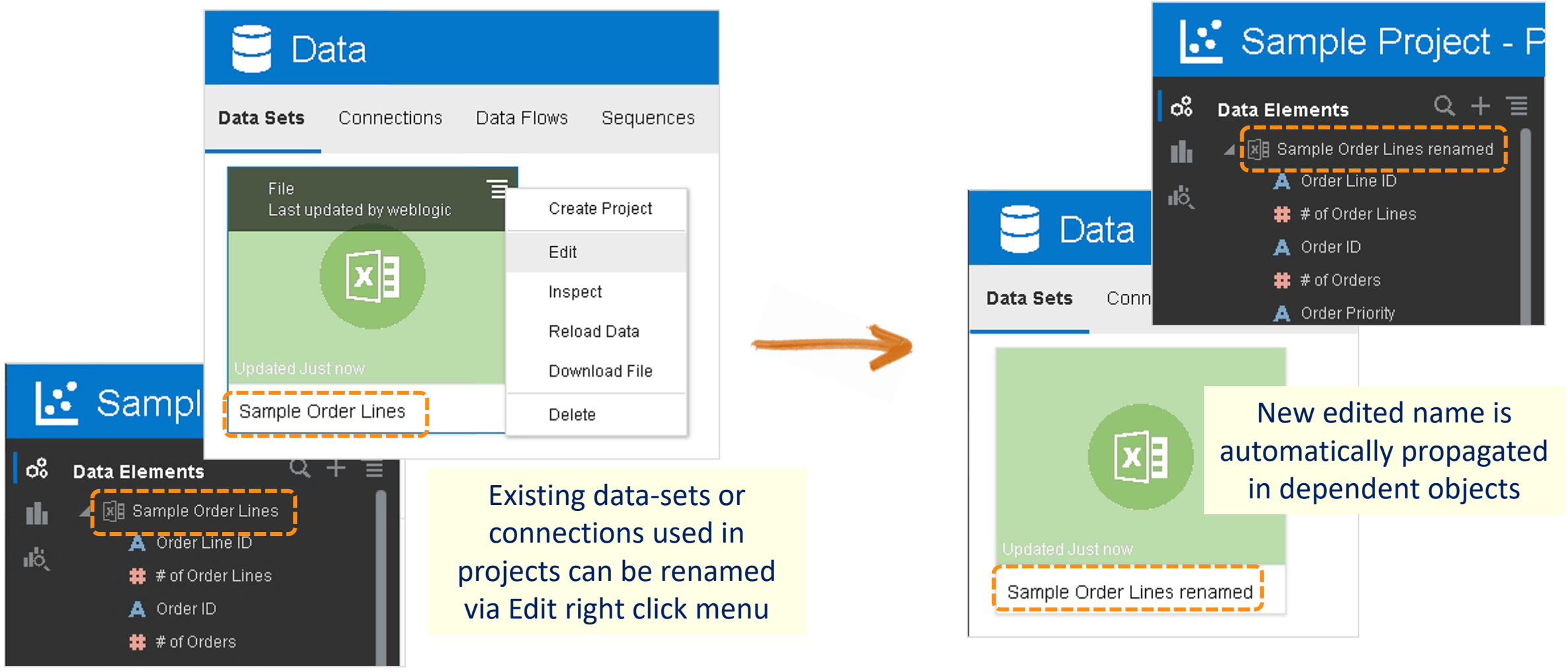
4 – New Projects control features :
Data Set / Connections renaming



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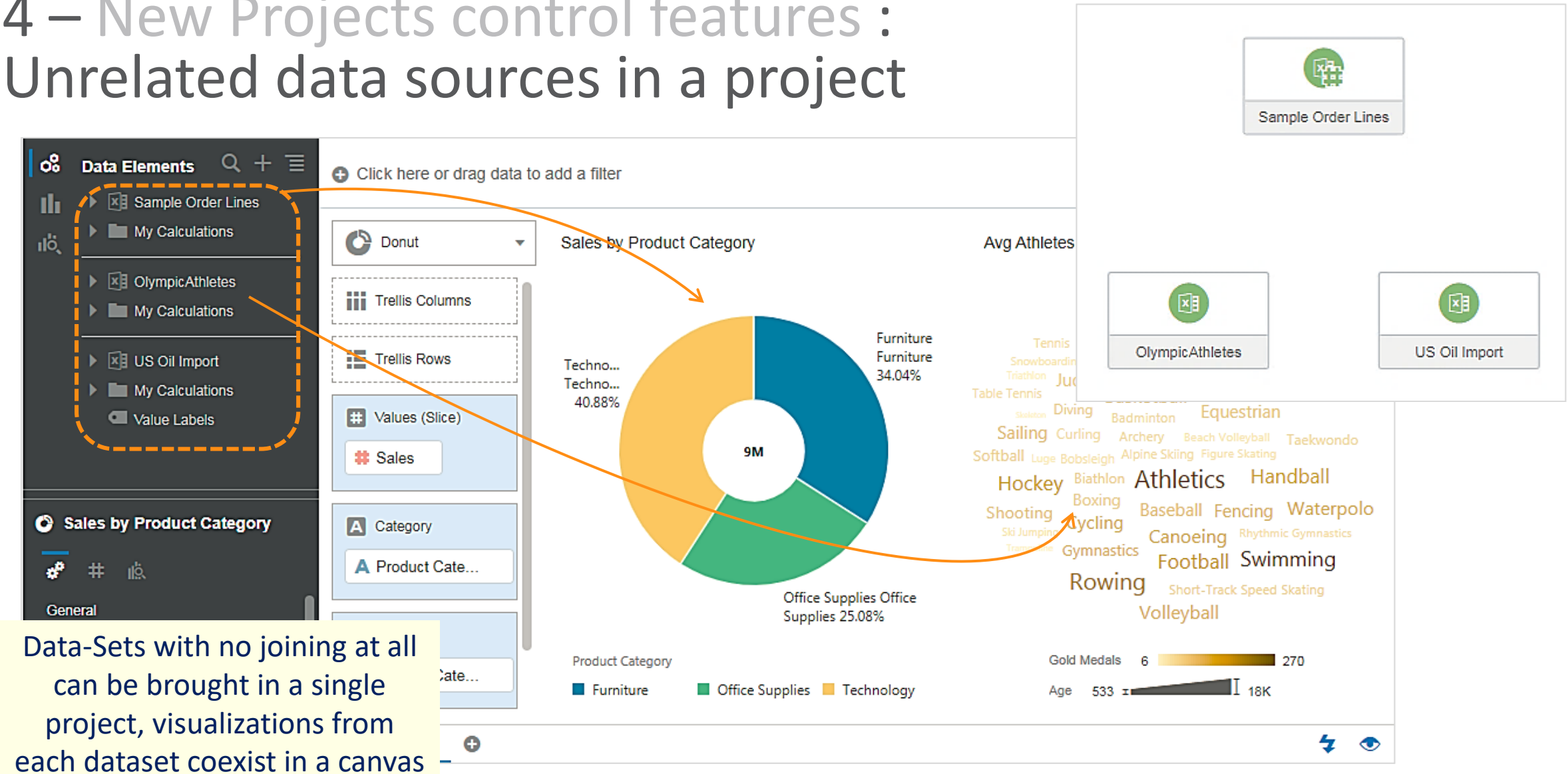
4 – New Projects control features : Unrelated data sources in a project



Data-Sets with no joining at all can be brought in a single project, visualizations from each dataset coexist in a canvas

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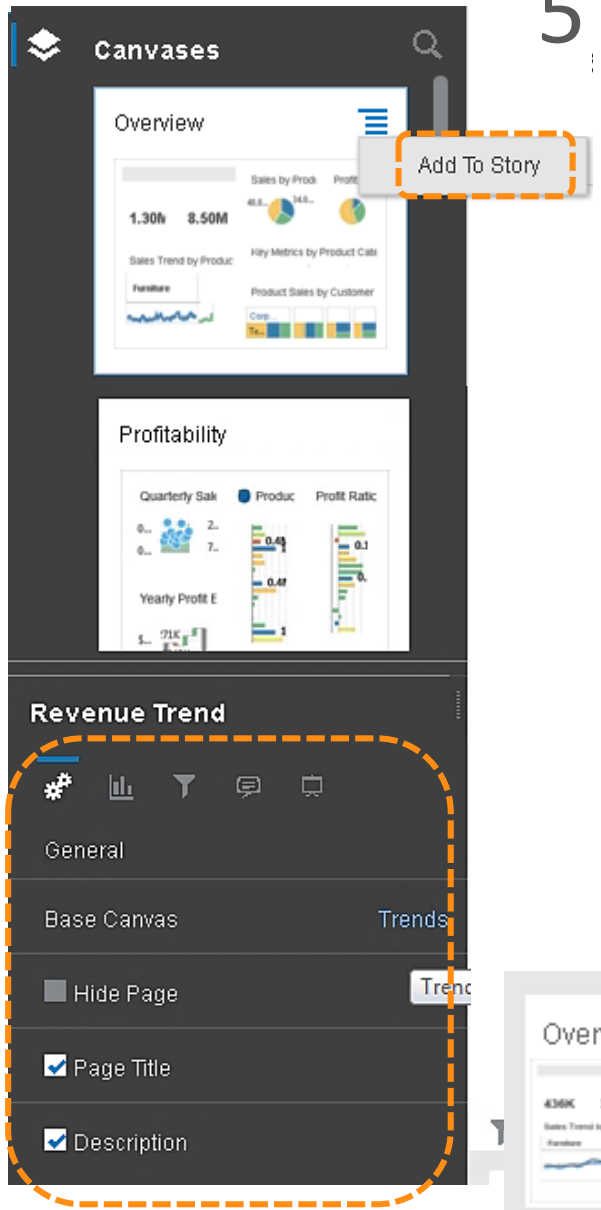
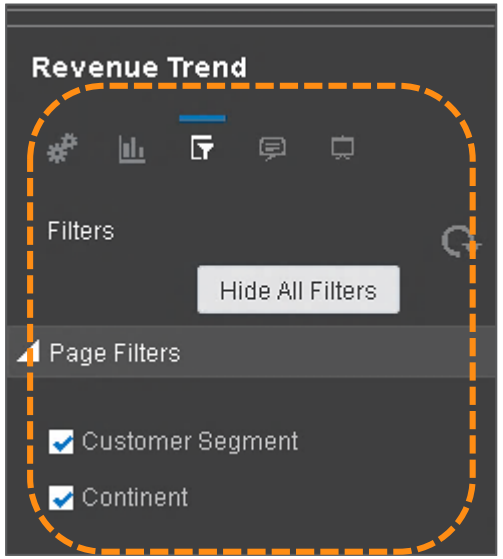
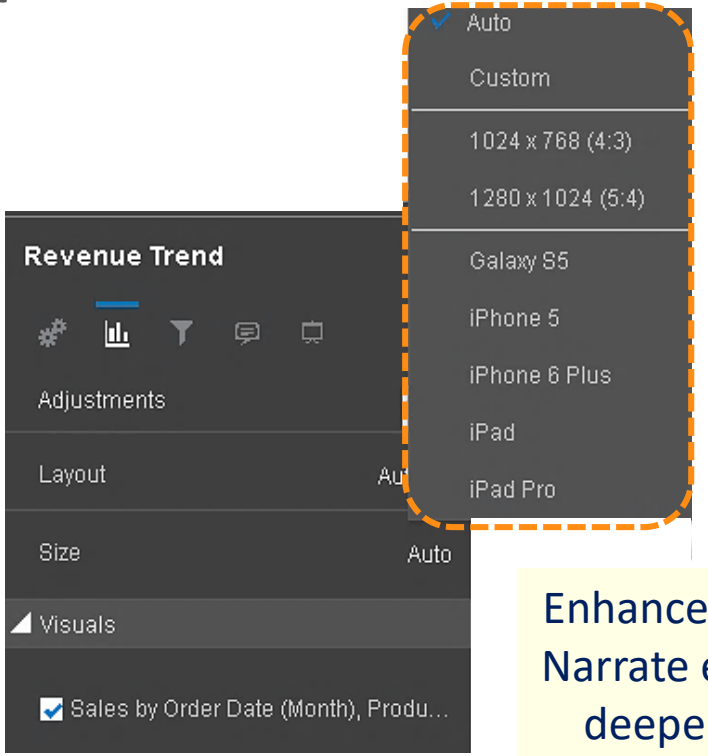
5 – New Narrate Experience







Enhanced Story-telling / Narrate experience with deeper control over user annotations and rendering formats

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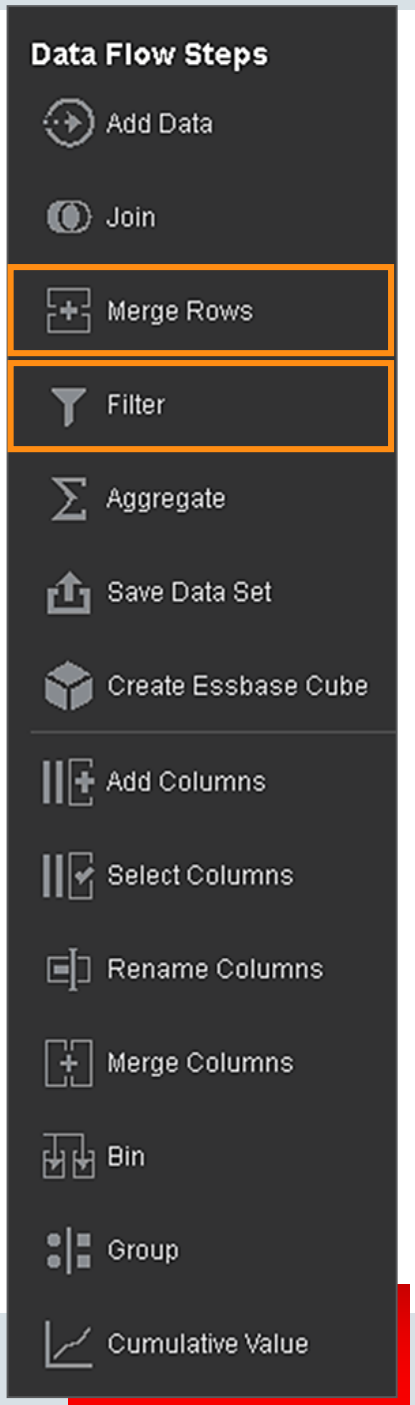
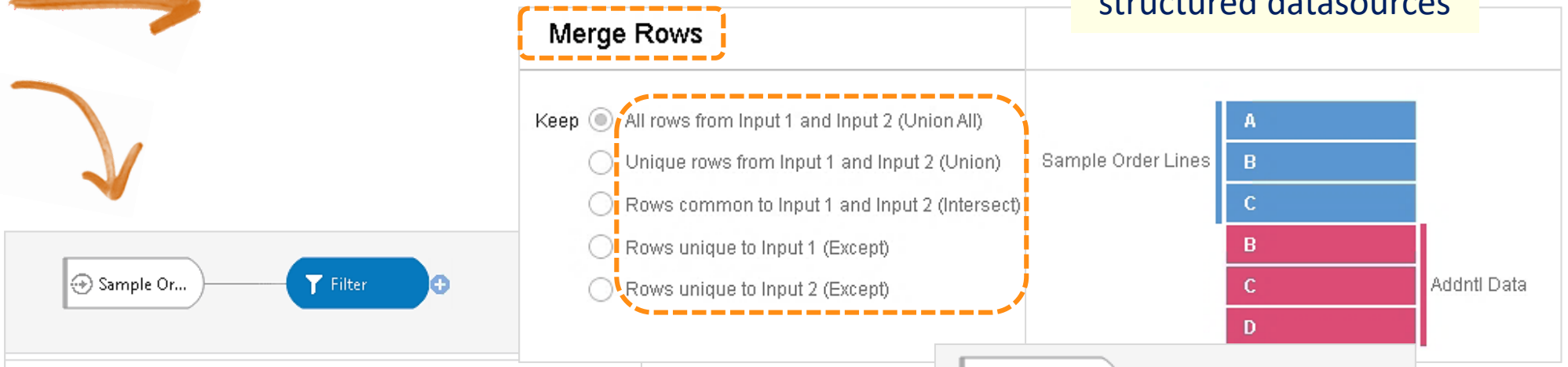
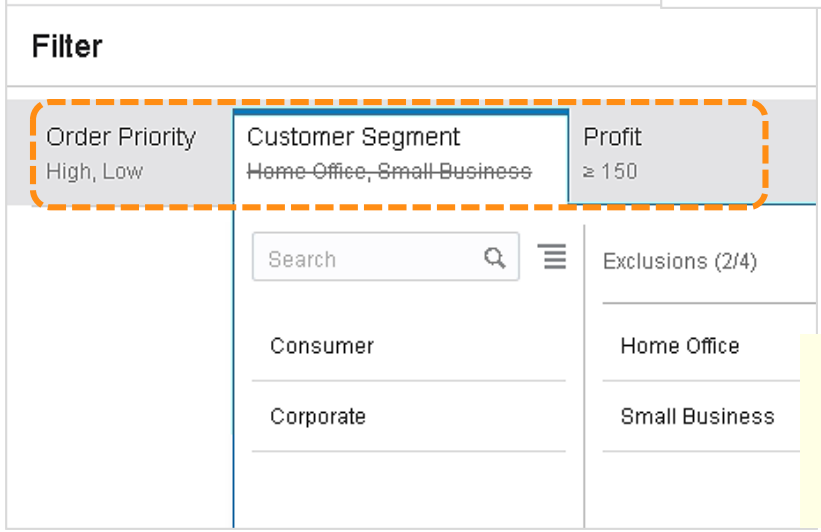
7 – Data-flows : New Merge-rows step (union), enhanced filtering

Merge (Union) rows from multiple iso-structured datasources







New canvas-like experience for filters node in Data-flows

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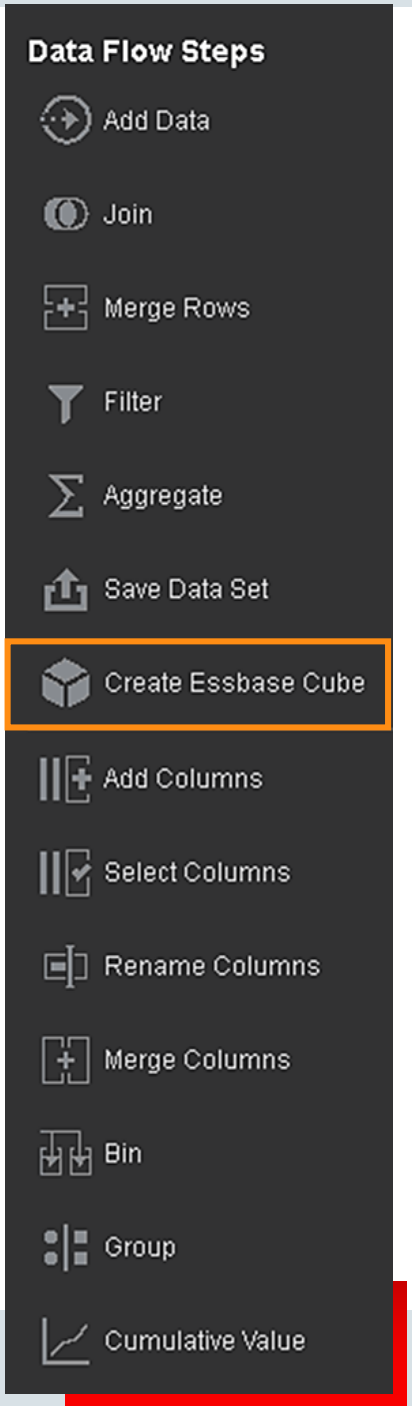
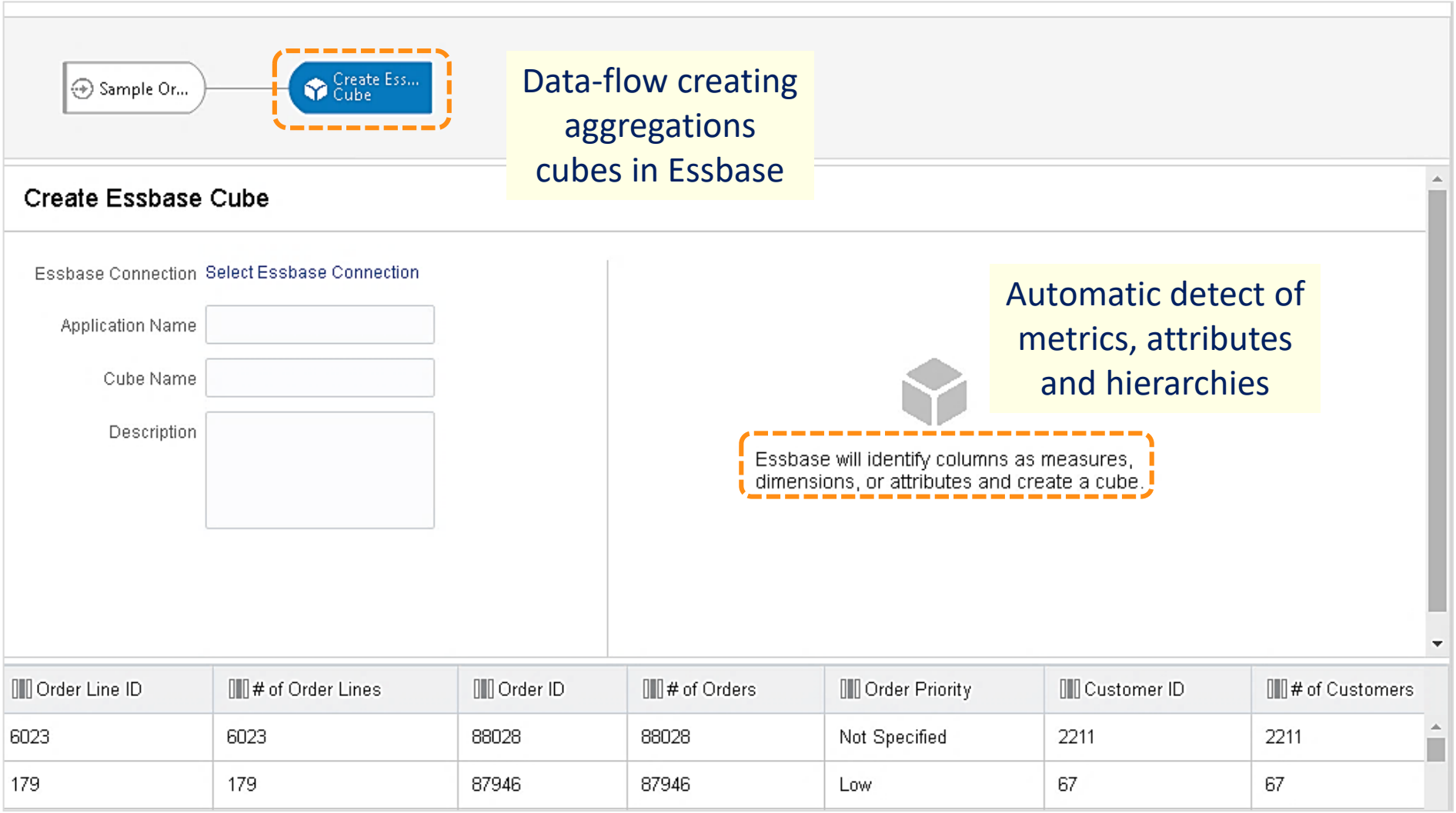
7 – Data-flows : New Create Essbase Cube Step





Order Line ID	# of Order Lines	Order ID	# of Orders	Order Priority	Customer ID	# of Customers
6023	6023	88028	88028	Not Specified	2211	2211
179	179	87946	87946	Low	67	67

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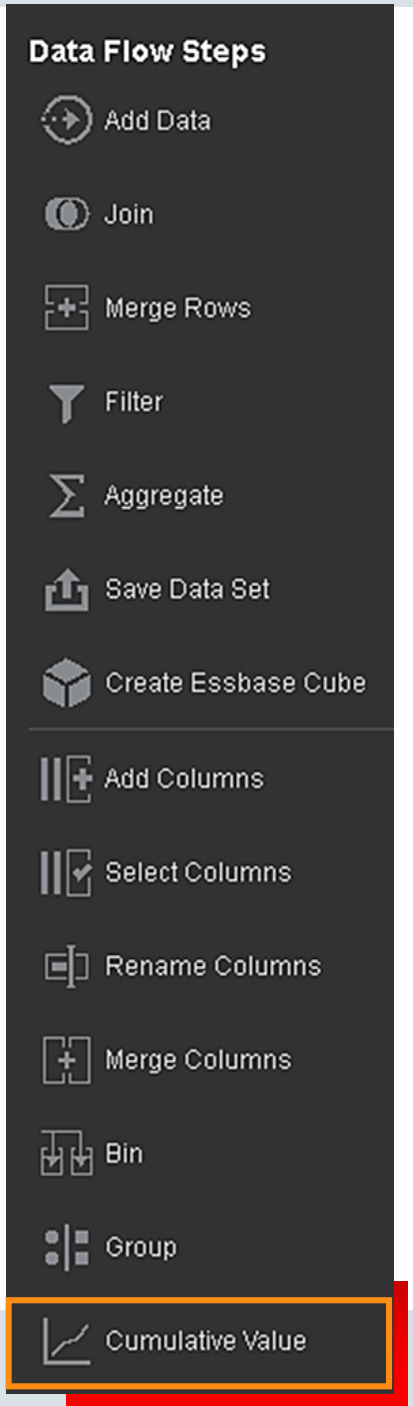
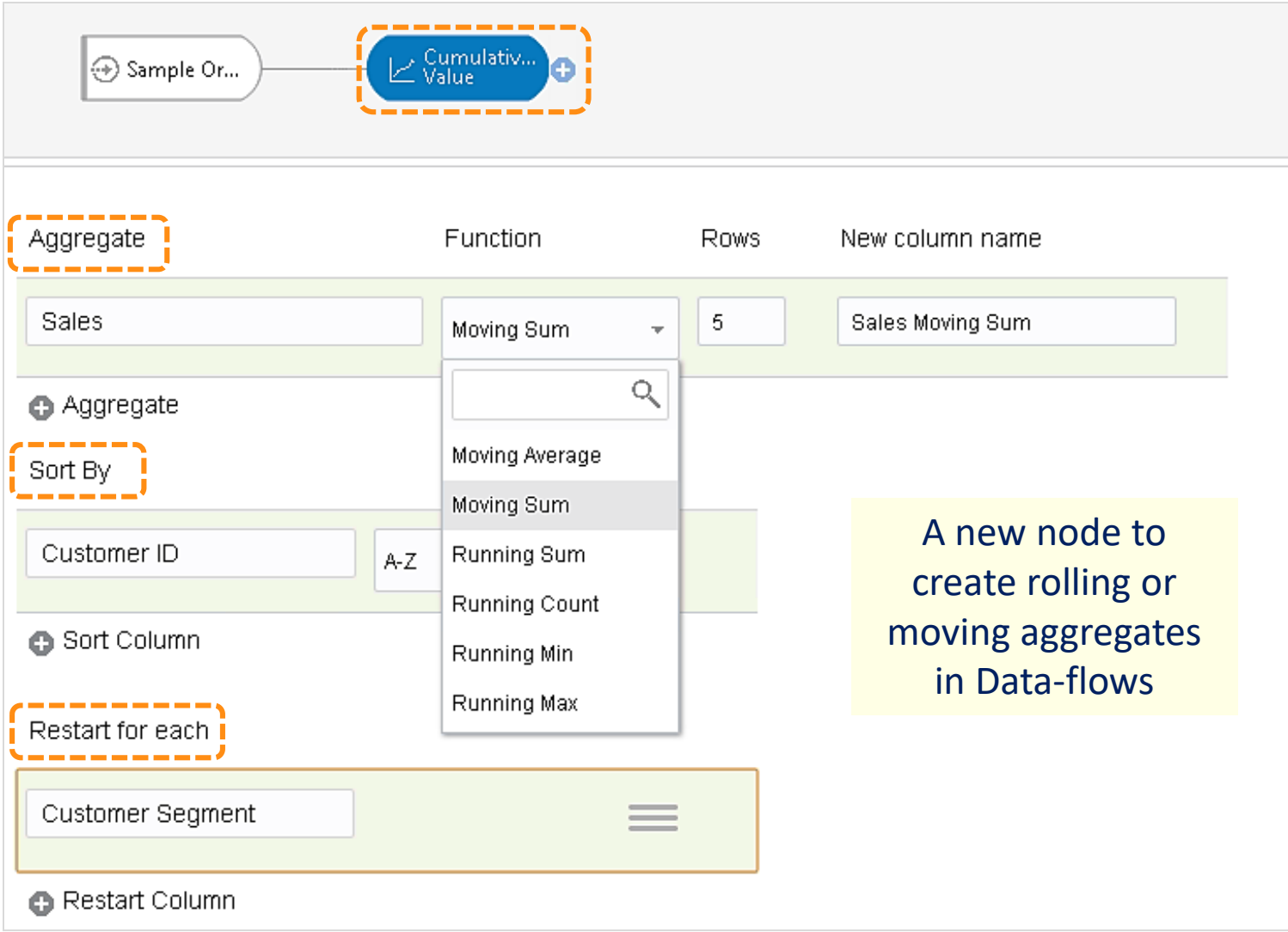
7 – Data-flows : New Cumulative Value Step





A new node to create rolling or moving aggregates in Data-flows

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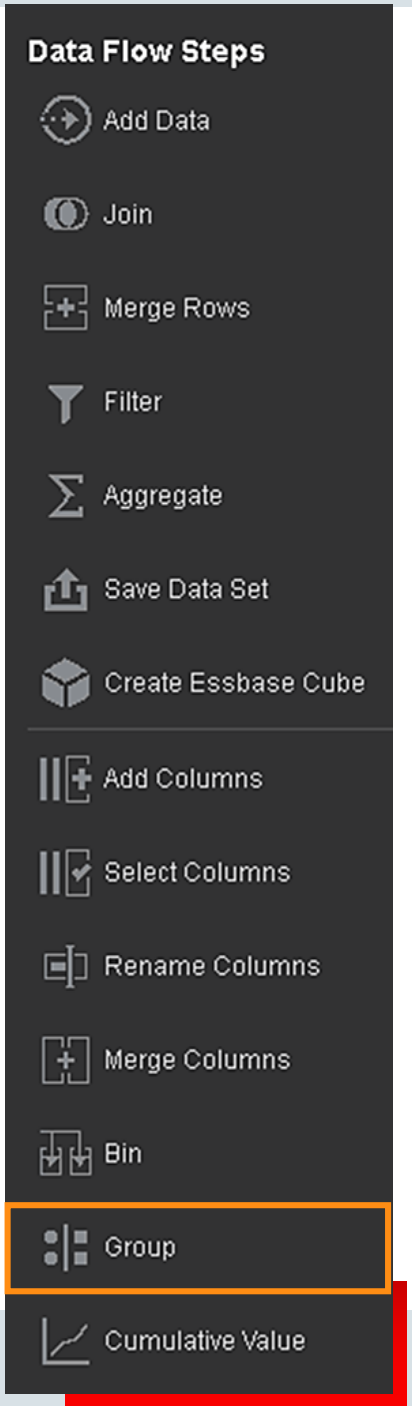
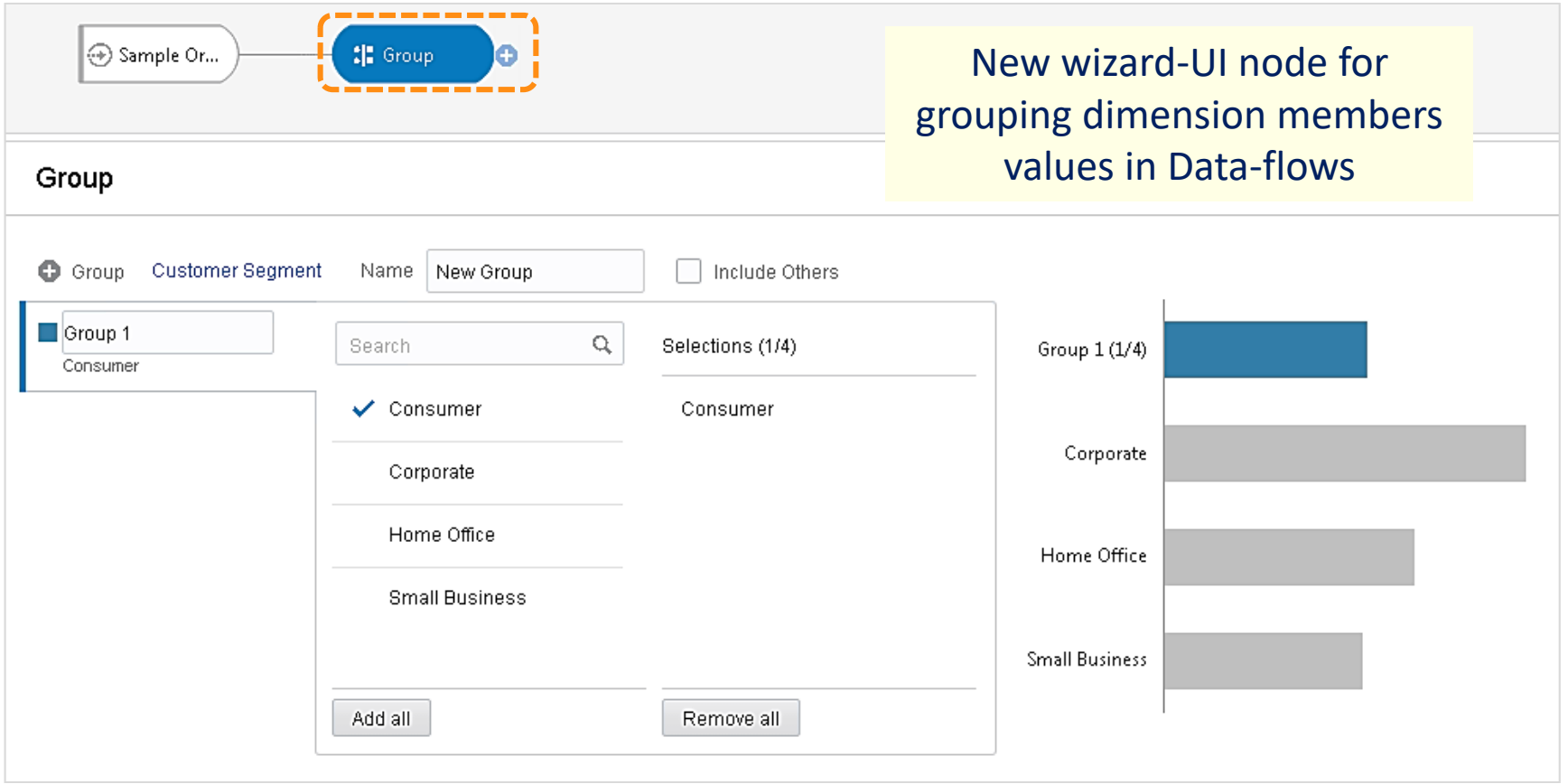
7 – Data-flows : New Create Group Step





New wizard-UI node for grouping dimension members values in Data-flows

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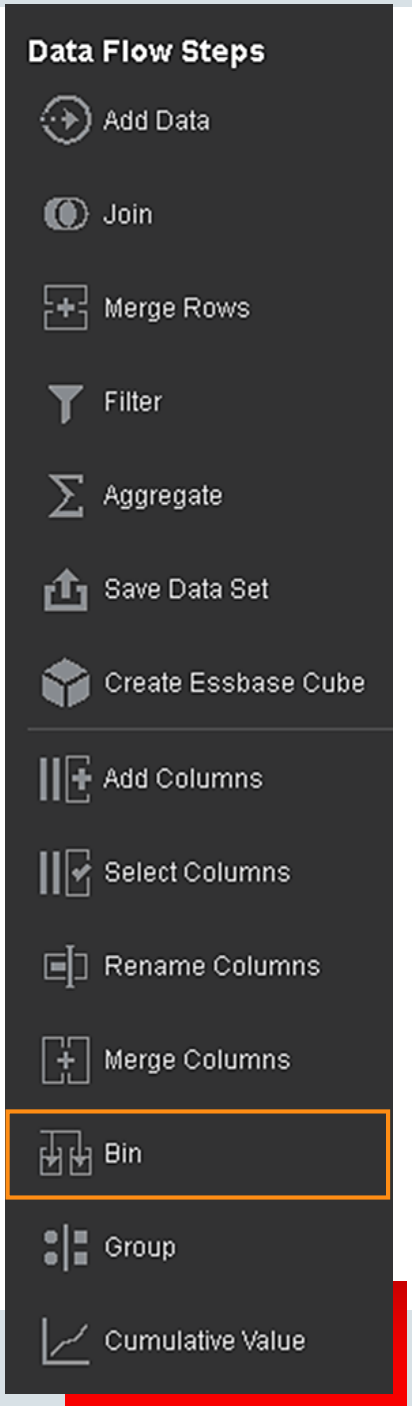
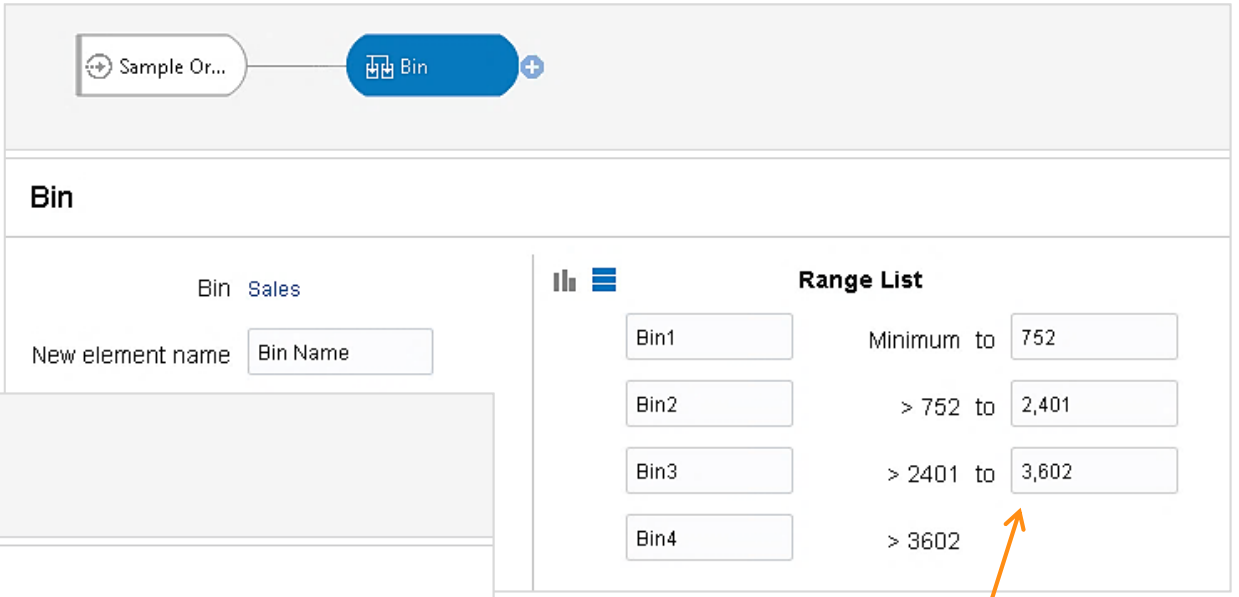
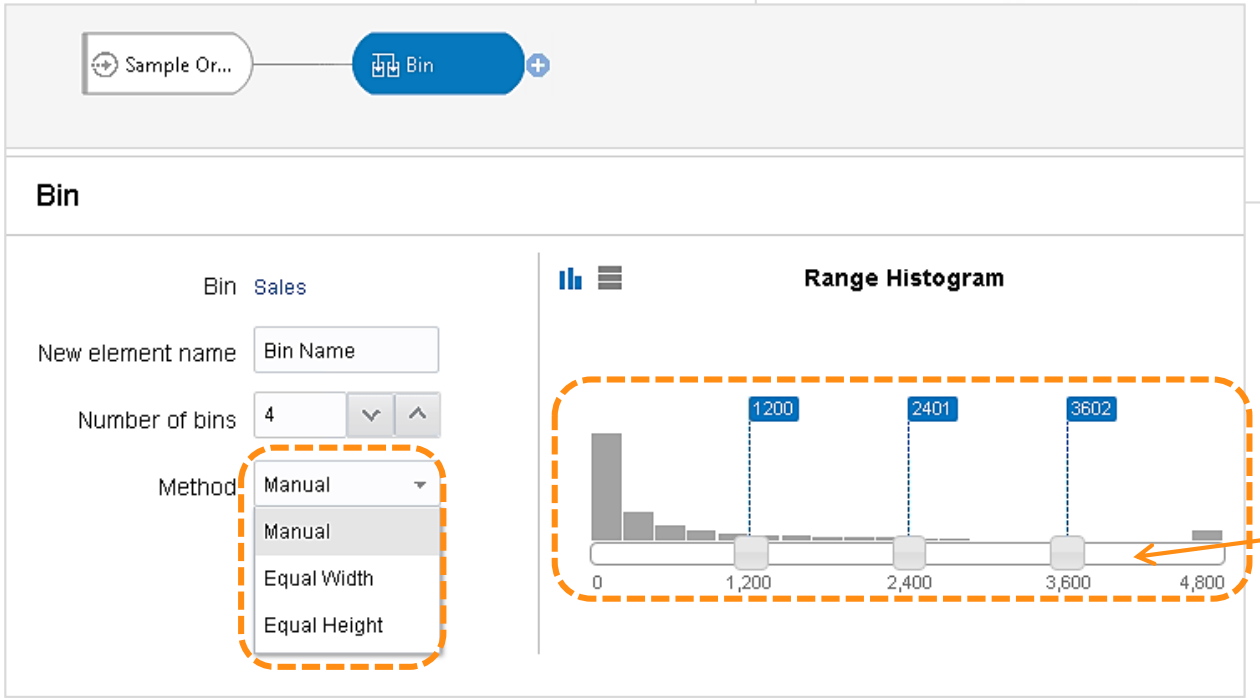
7 – Data-flows : New Binning Step



New wizard-UI node to bin granular data in Data-flows





Customize bin width manually or by moving sliders

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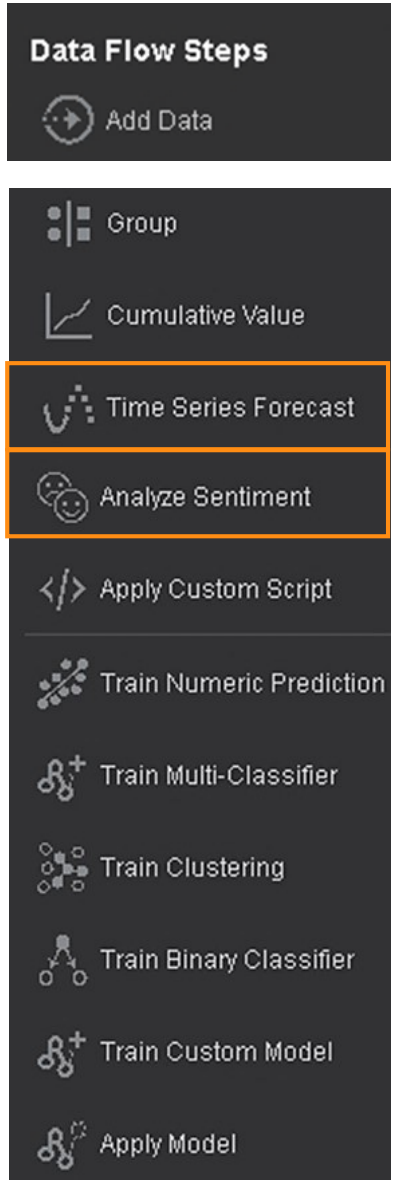
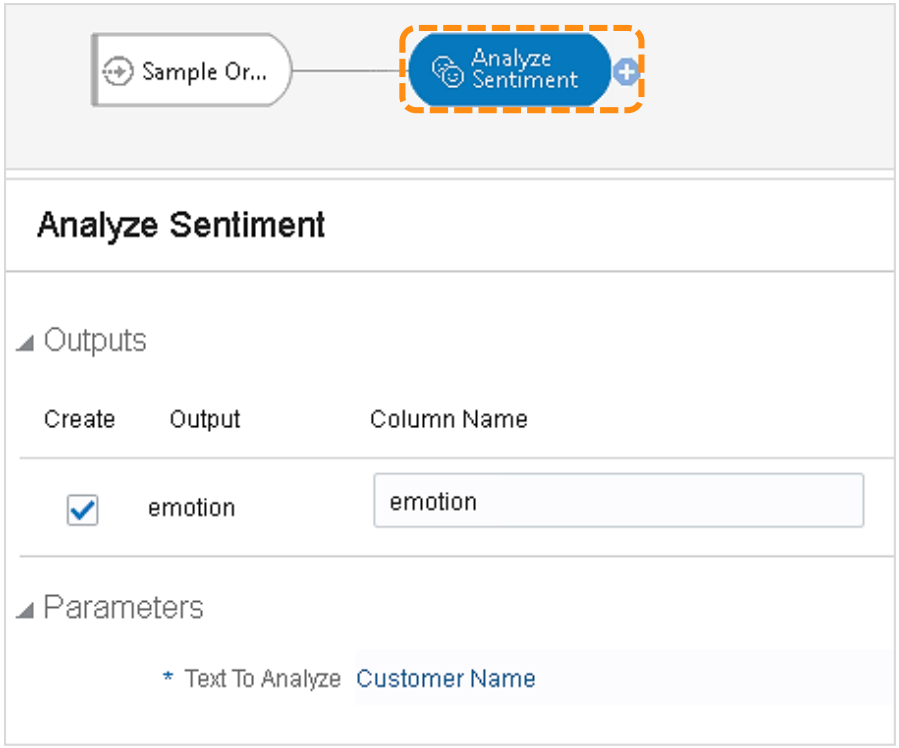
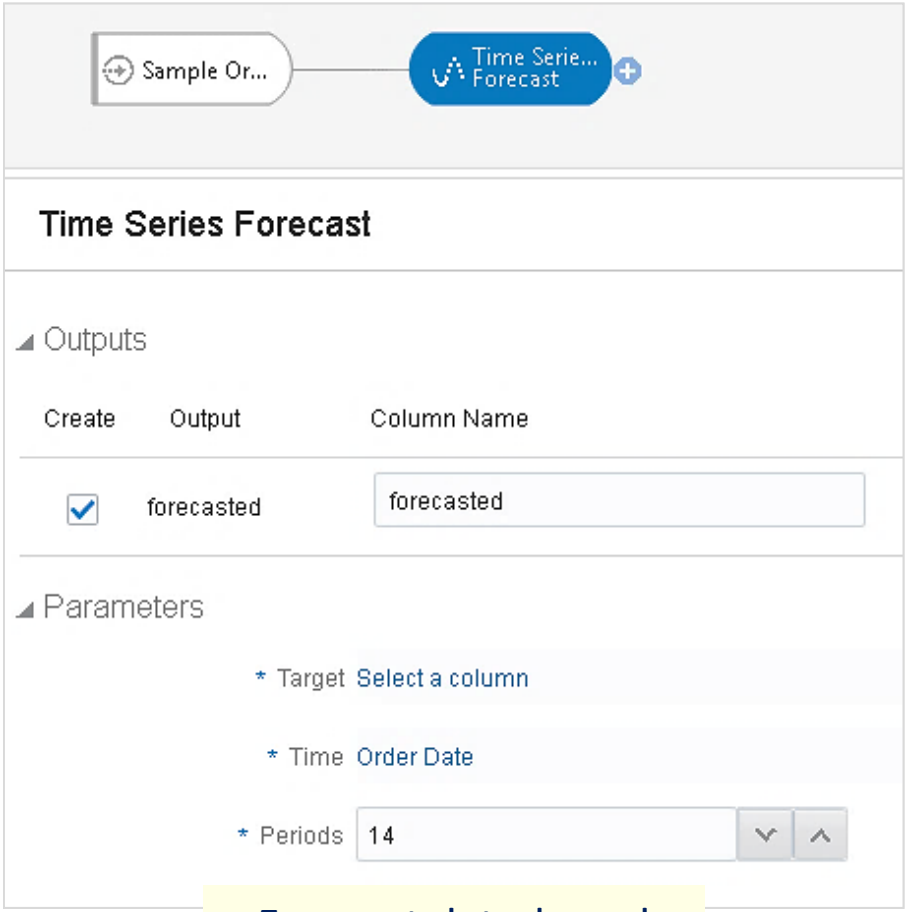
7 – Data-flows : New Forecast and Sentiment Analysis Steps



Extract Sentiment from text based columns





Forecast date-based metric values

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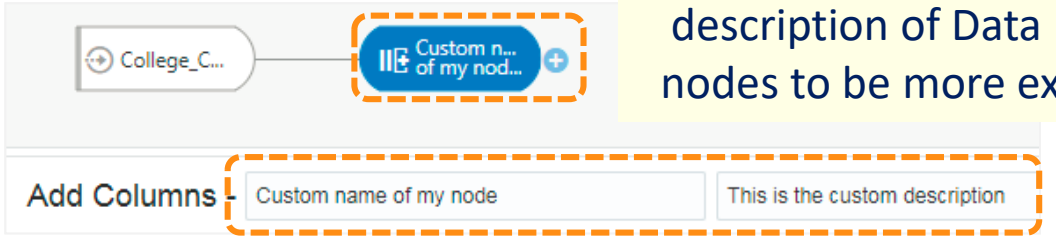
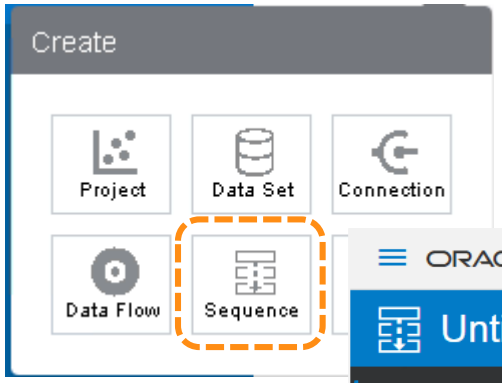
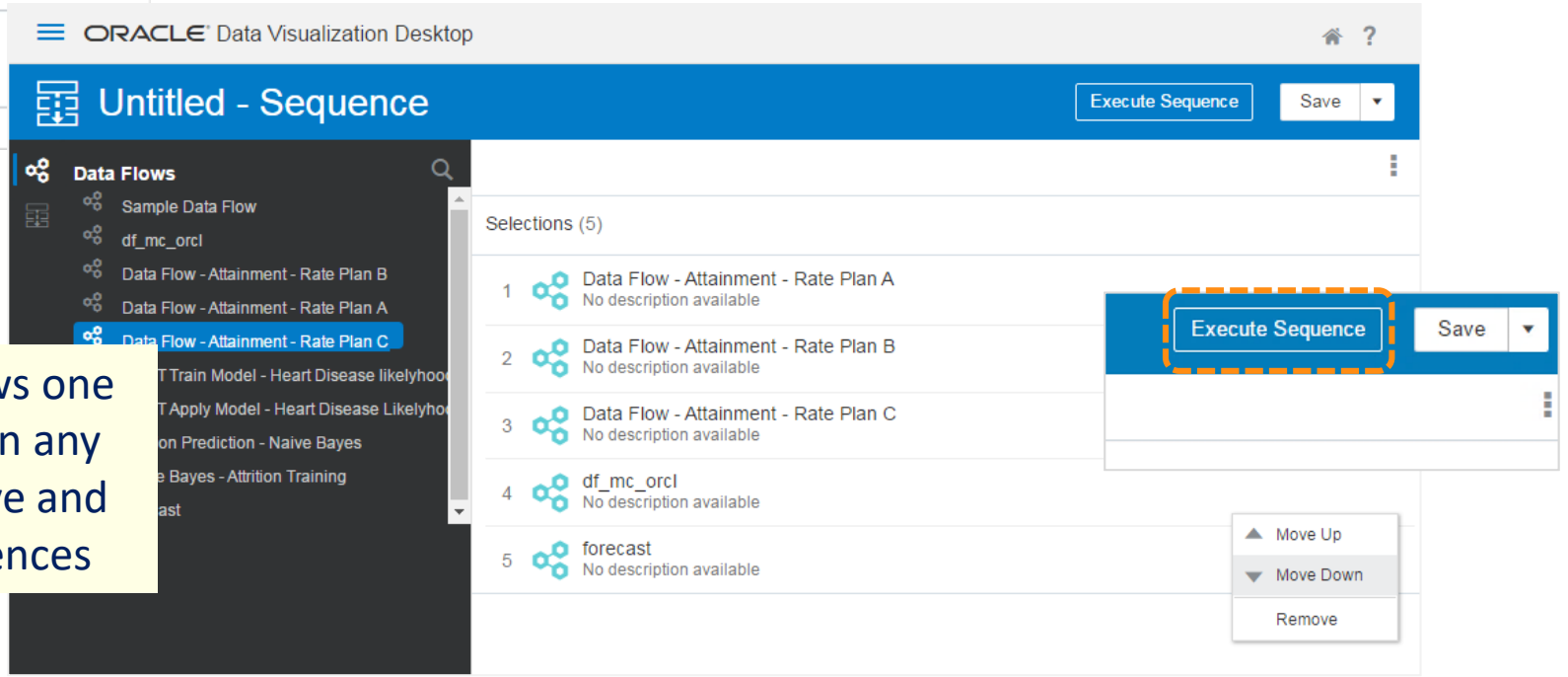
8 & 9 – Data-flows Sequences
Data-flows step custom renaming

Customize name and description of Data Flow nodes to be more explicit







Chain Data-flows one after another in any sequences. Save and execute sequences

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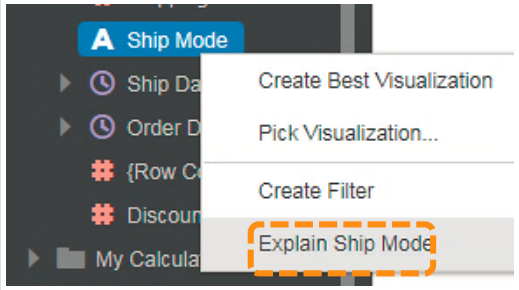
11,12,13,14 – New Data-source Types

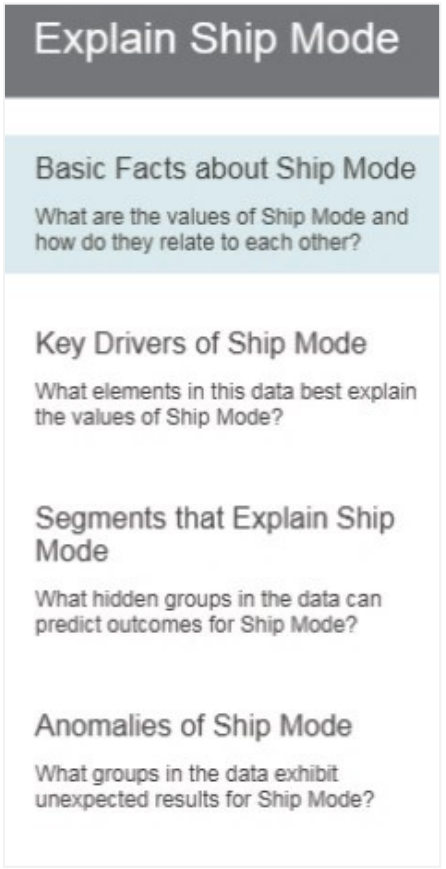
Select Connection Type

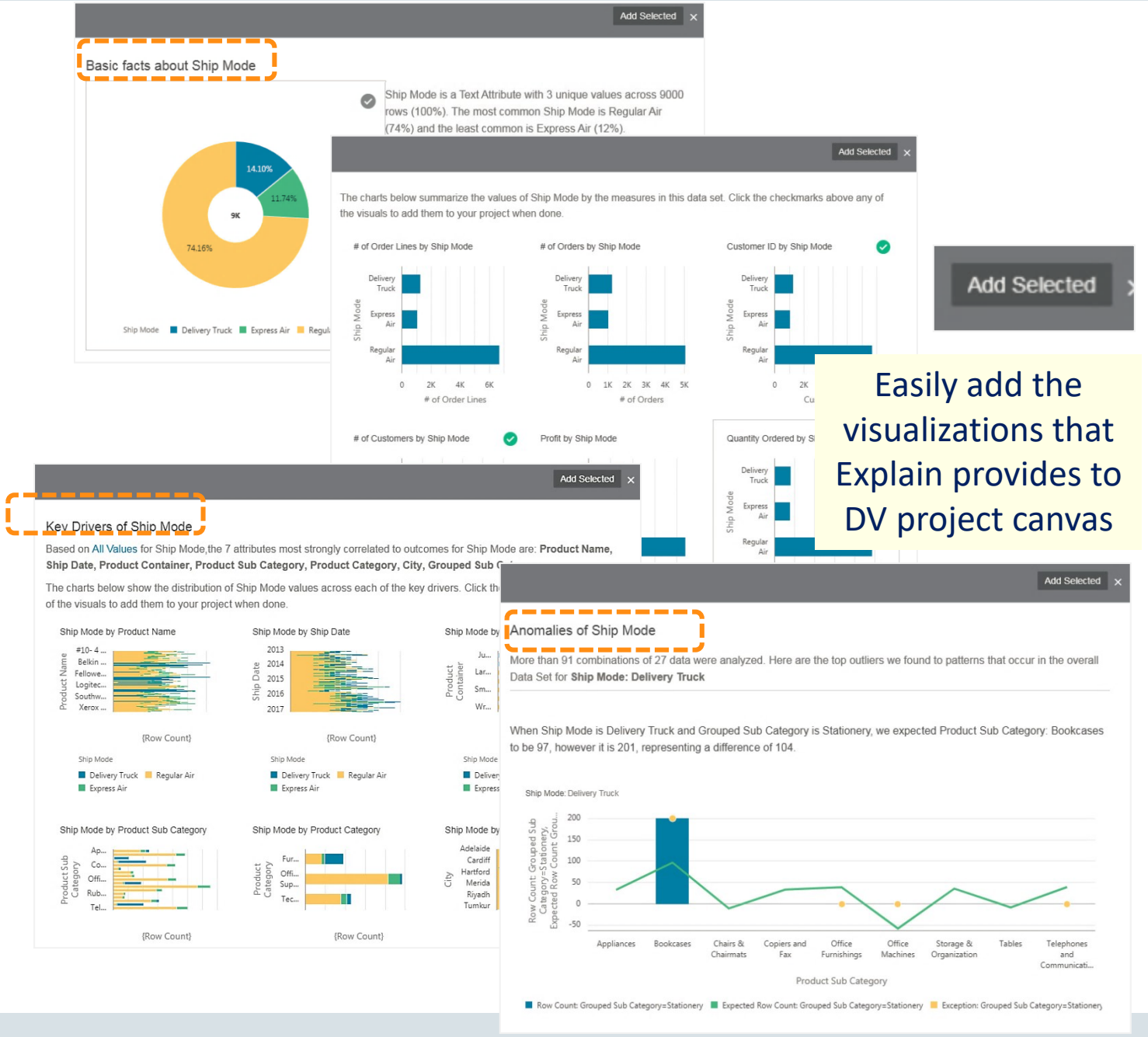
- Oracle Applications
- Oracle Big Data Cloud (Beta)
- Oracle Data Warehouse Cloud (Beta)
- Oracle Database
- Oracle Content and Experience Cloud
- Oracle Essbase
- Oracle Service Cloud
- Oracle Talent Acquisition Cloud (Beta)
- Actian Ingres
- Actian Matrix
- Actian Vector
- Amazon EMR
- Amazon Redshift
- Apache Drill
- Apache Hive
- Cassandra
- DB2
- Dropbox
- Google Analytics
- Google Cloud
- Google Drive
- Greenplum
- Hortonworks Hive
- HP Vertica
- IBM BigInsights Hive
- Impala
- Informix
- MapR Hive
- Microsoft Access
- MonetDB
- MongoDB
- MySQL
- Netezza
- Pivotal HD Hive
- PostgreSQL
- Presto
- Salesforce
- Spark
- SQL Server
- Sybase ASE
- Sybase IQ
- Teradata
- Teradata Aster
- Elasticsearch
- JDBC
- OData
- ODBC

15 – ML : Attribute Explain



Use Explain right click option on any attribute column to Uncover insights and patterns about this column within the whole data set





Add Selected

Easily add the visualizations that Explain provides to DV project canvas

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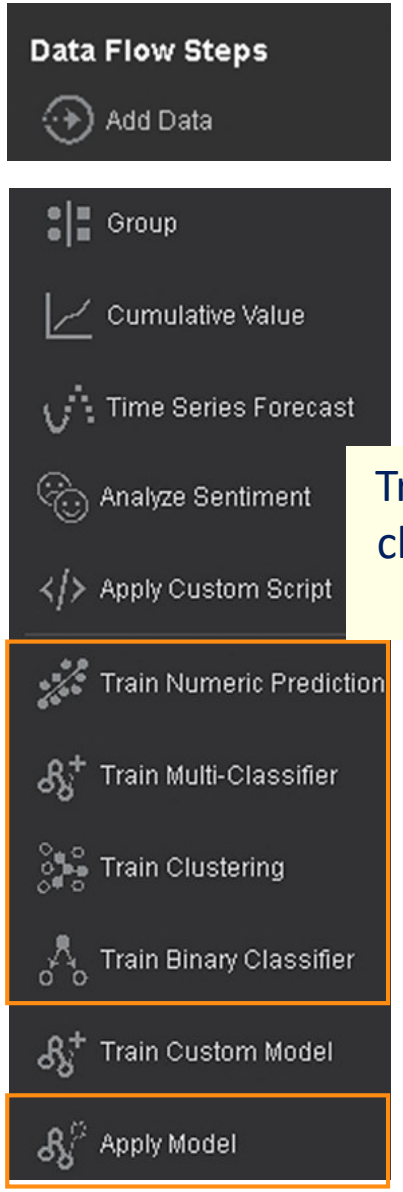
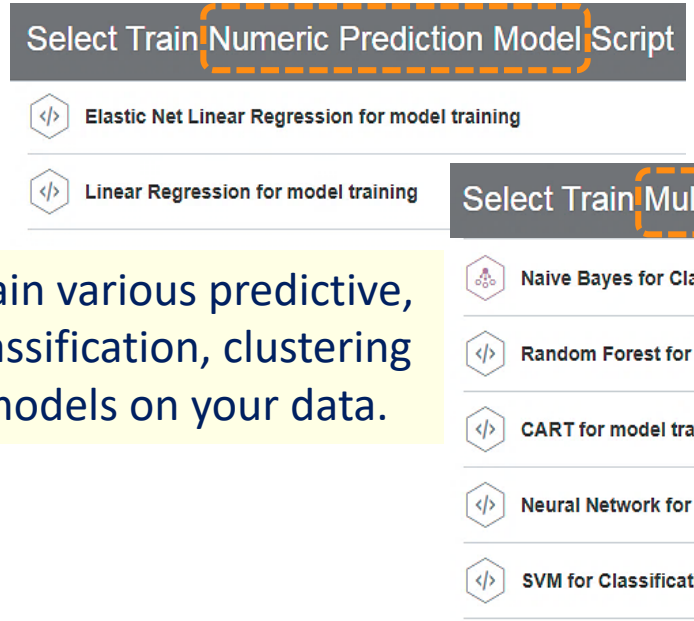
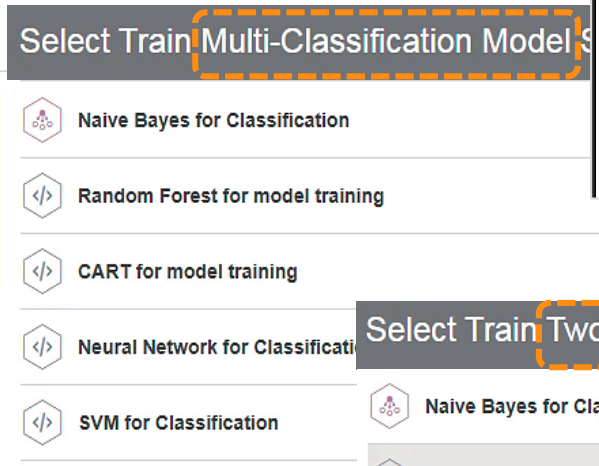
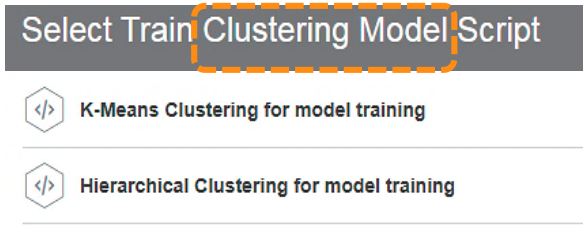
16 – ML : Train & Apply OOB Models

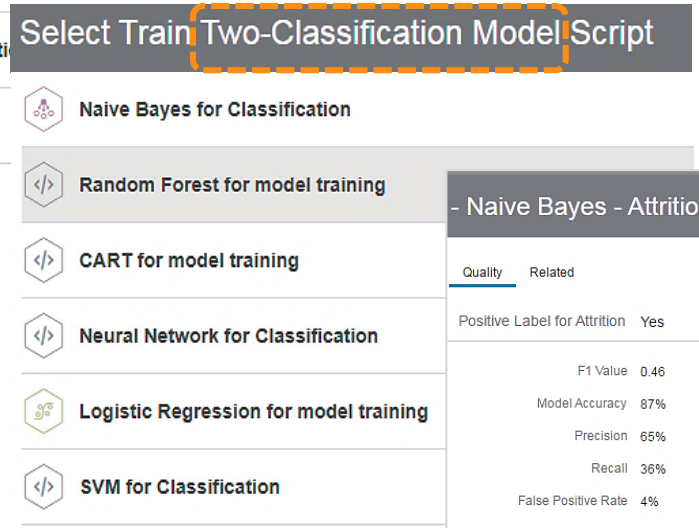


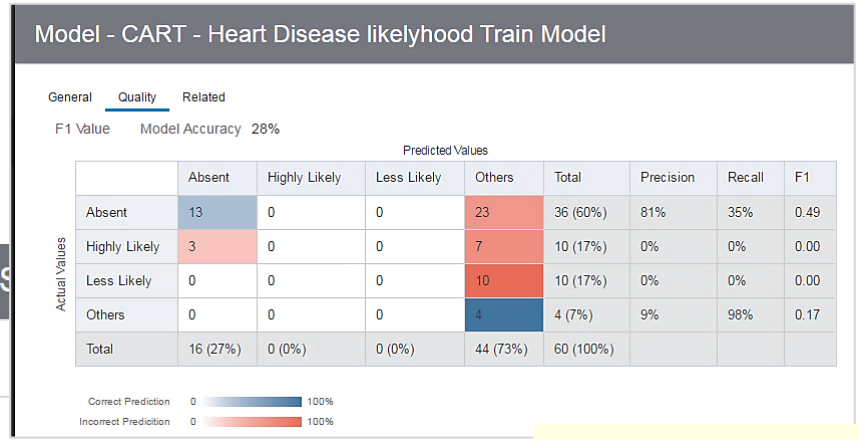
Train various predictive, classification, clustering models on your data.



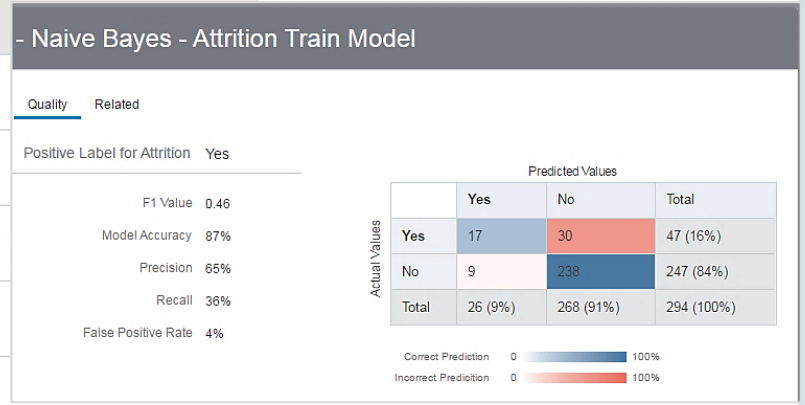








Easily visualize quality metrics for each trained model



Easily Apply trained models on production data in Data-flows

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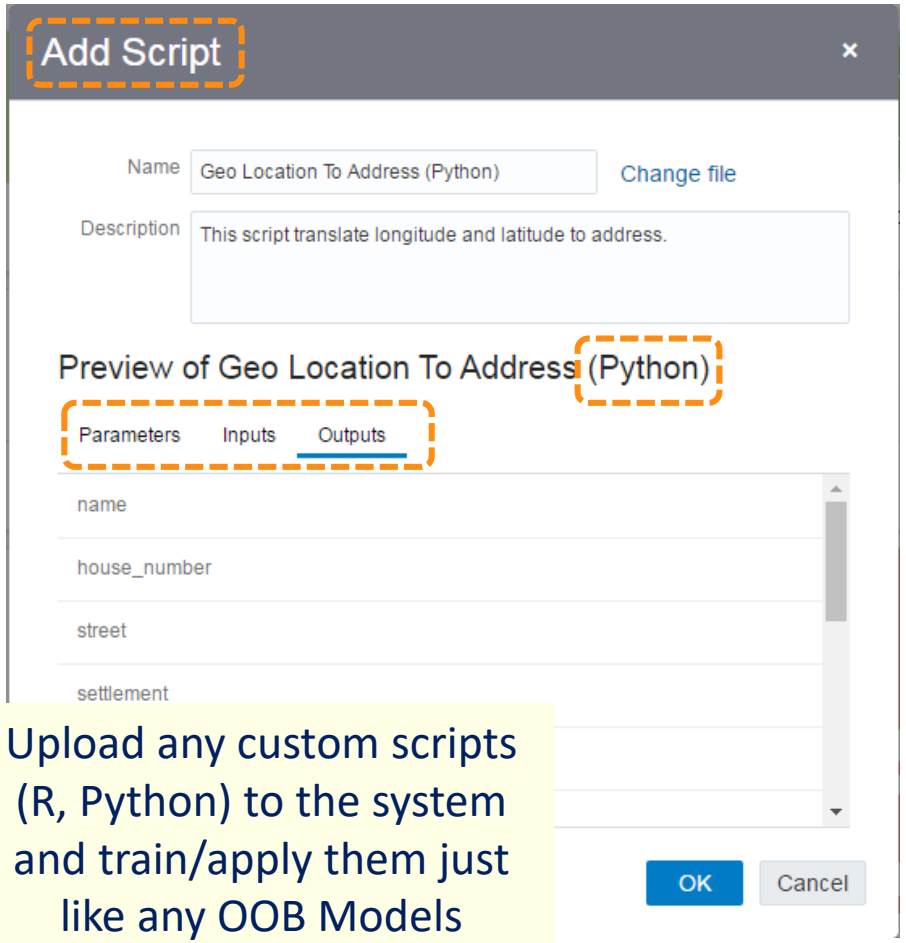
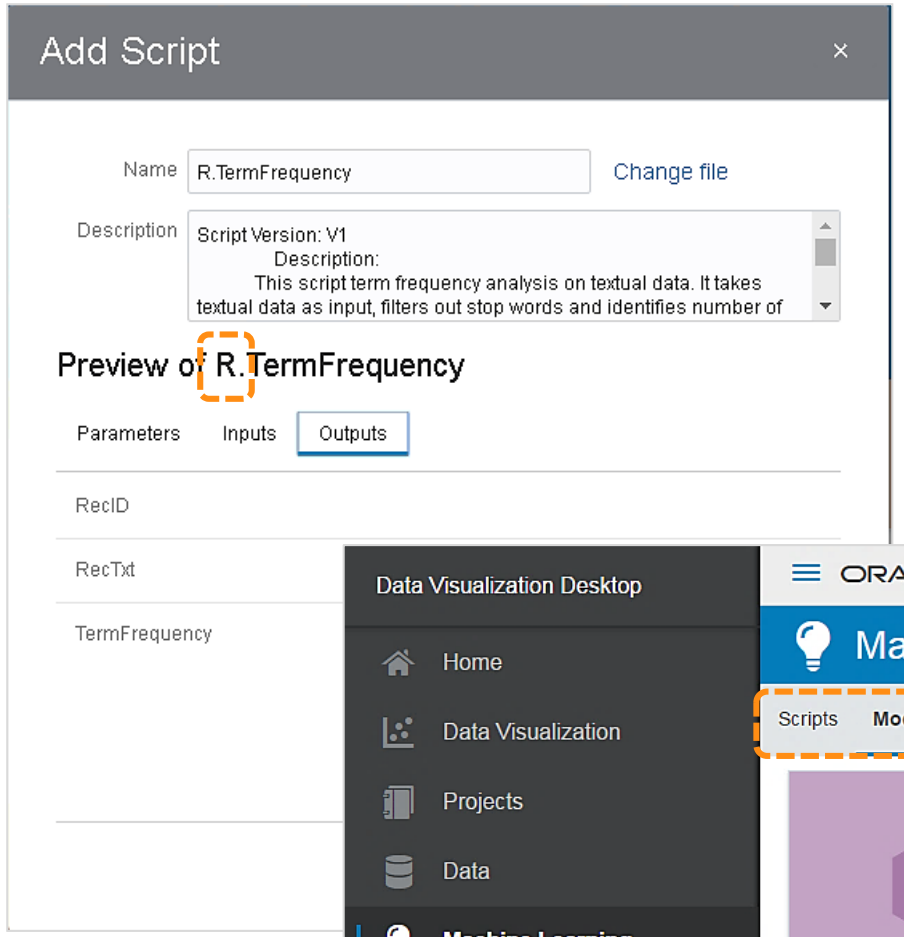
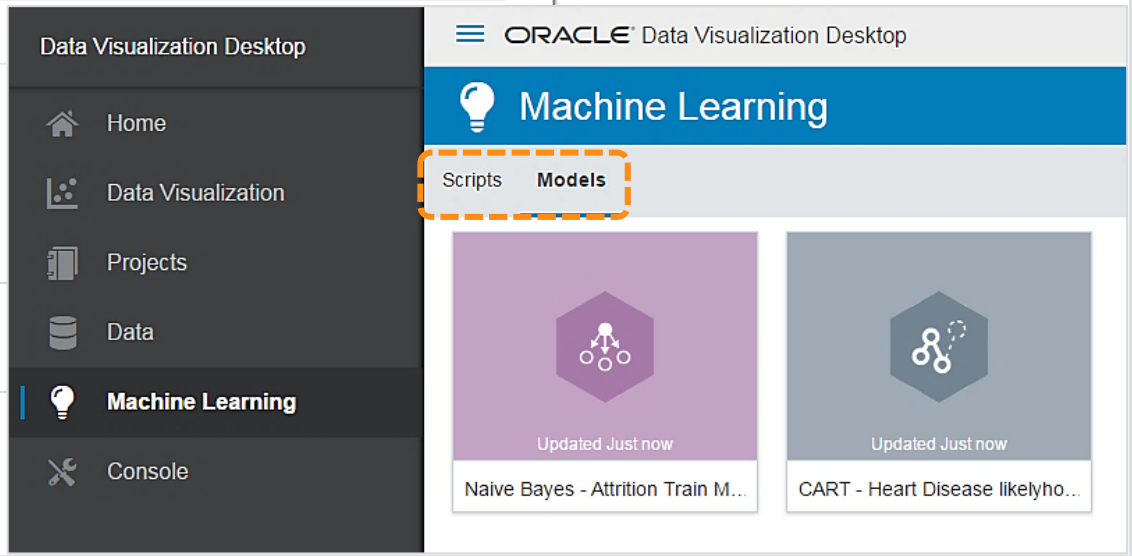
17 – ML : Custom Script upload and Apply

DVD Only







Upload any custom scripts (R, Python) to the system and train/apply them just like any OOB Models

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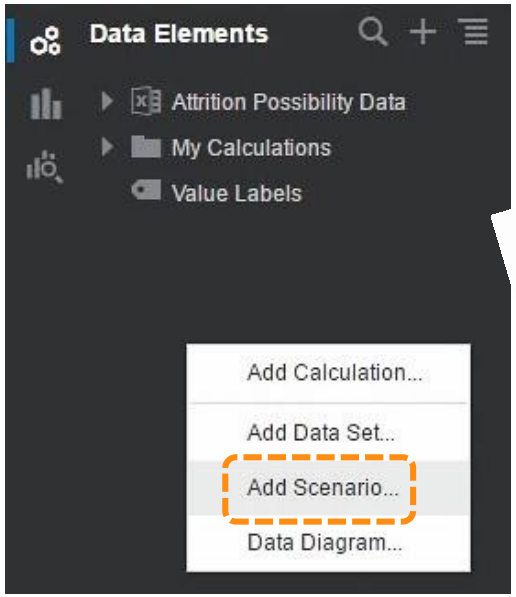
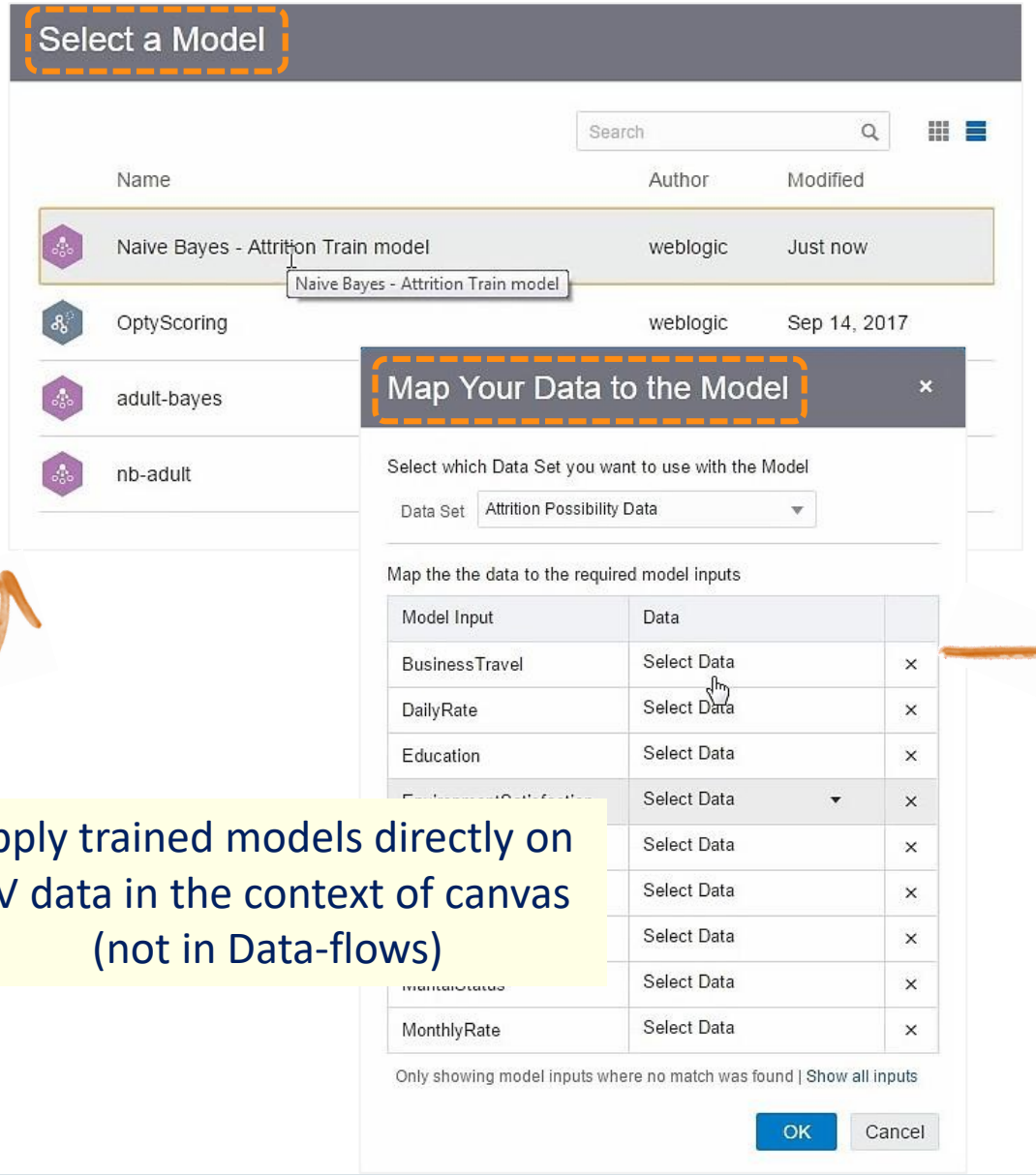
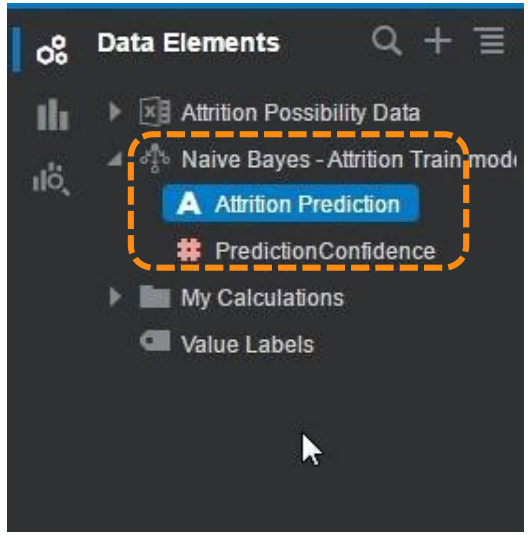
18 – ML : Model Scenarios







Apply trained models directly on DV data in the context of canvas (not in Data-flows)

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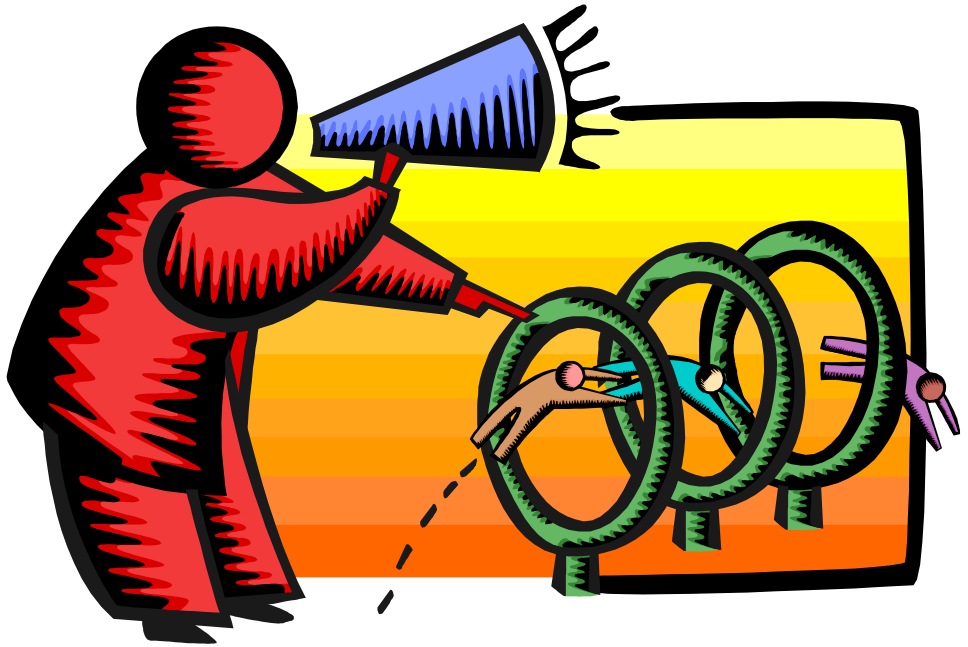
Demo



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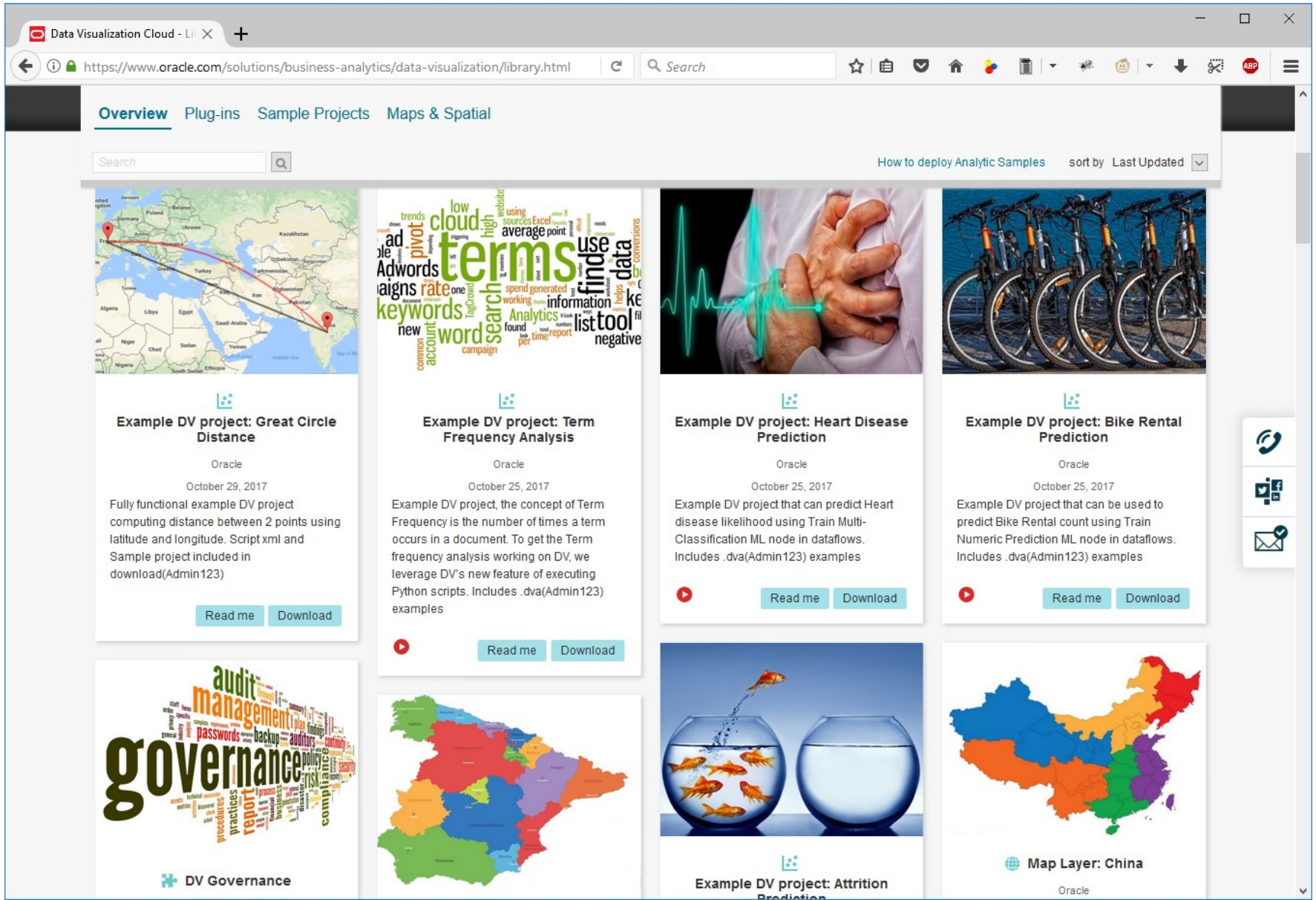

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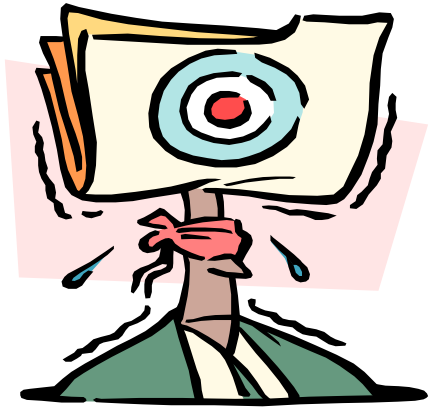

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Oracle Analytics Library with plugins and demos https://www.oracle.com/solutions/business-analytics/data-visualization/library.html

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

YouTube video playlist on DV4 new features https://www.youtube.com/watch?v=AoMxQDX4KNQ&list=PLOcpw36tp3yKTe2EDF29vr60wWlM4aWDP

Analytics and Data Summit 2018 Conference http://www.AnalyticsandDataSummit.org

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