



Spatial and Graph Summit @

# ANALYTICS AND DATA SUMMIT 2020

All Analytics. All Data.  
No Nonsense.

February 25-27, 2020



## Automated Graph Analysis in Oracle Autonomous Data Warehouse (Preview)

Korbi Schmid, Senior Development Manager  
Oracle Graph Technologies



## Safe harbor statement

---

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions.

The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

# Autonomous Database Graph

- “Graph as a service”
  - New native feature of the Autonomous Database
  - Zero installation, zero configuration, zero maintenance
  - Pay-as-you-go (Included in the Always Free Tier)
- New user interface: Graph Studio
  - Seamless integration with Autonomous Data Warehouse and Autonomous Transaction Processing (*Shared Infrastructure*)
  - Automated Graph Modeling
  - Collaboration features
  - Notebooks with integrated graph visualization
- Pre-built algorithms, flows and SQL-like Query language

# Integration with Autonomous Database

Integrated  
Data Ingestion

SQL  
Developer  
(Web)

Oracle Data  
Integrator

... and more

Integrated Security Tools

Data Safe

Access  
Control

... and more

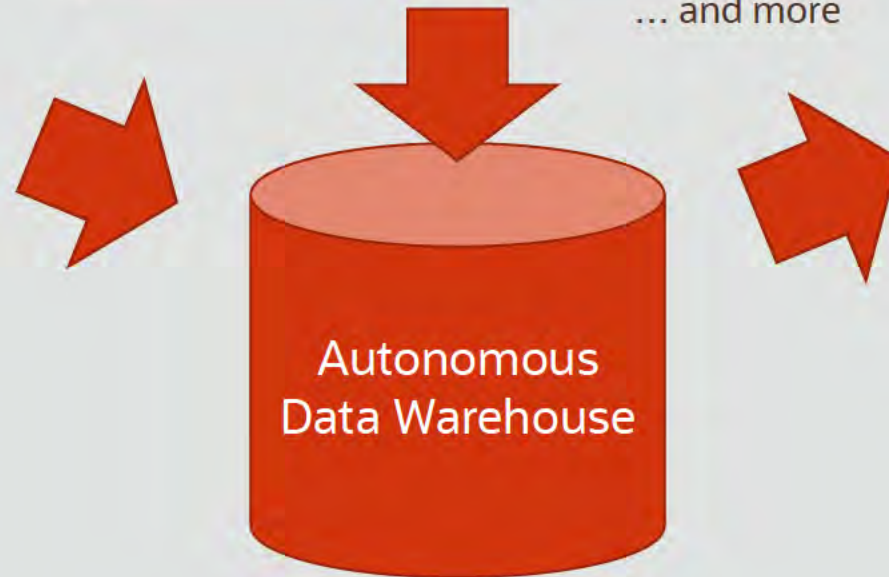
Integrated  
Analytics

Graph Studio

Machine  
Learning

... and more

This session

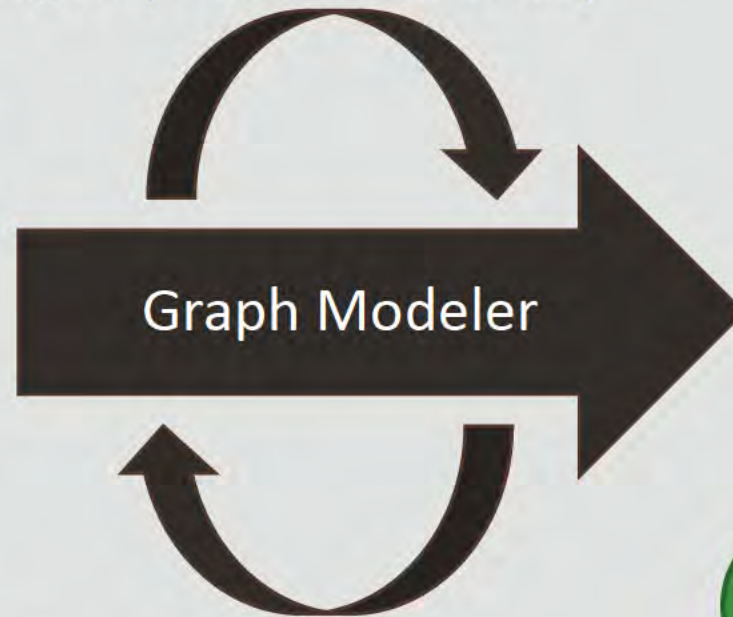
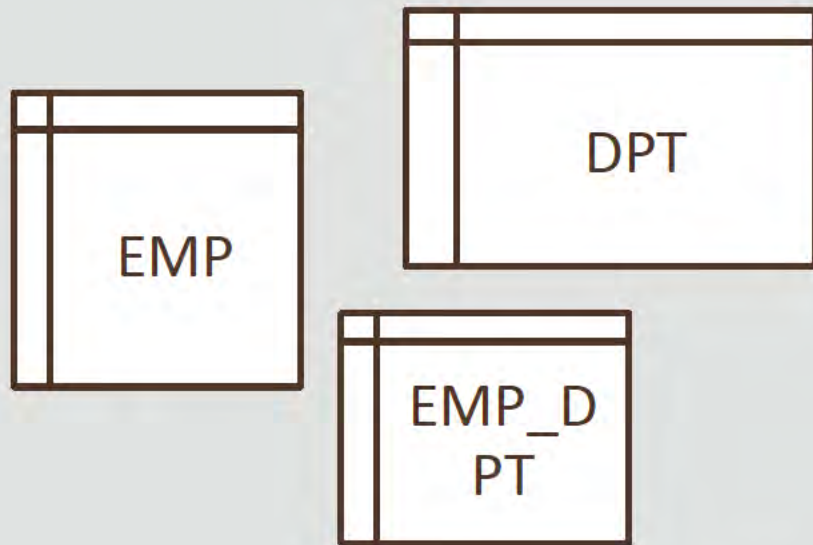


# Graph Modeler

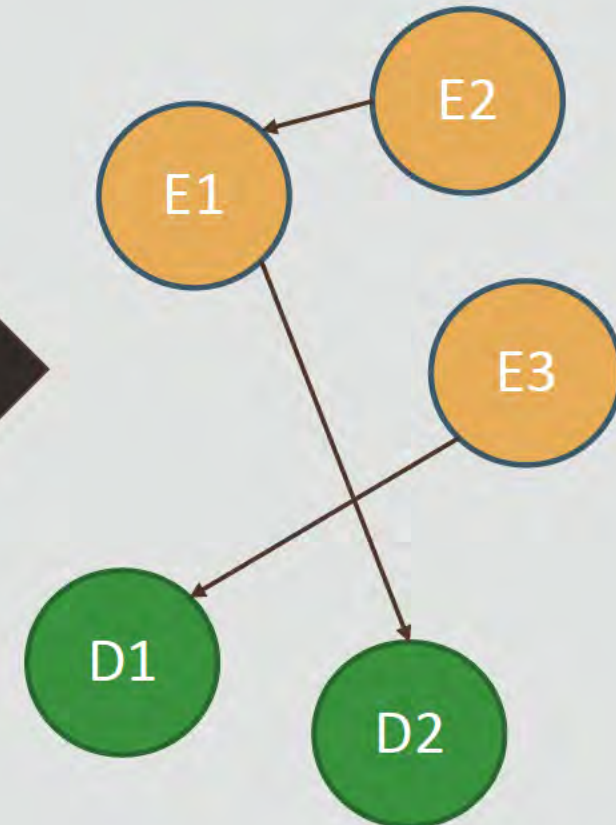
Input: Tabular Data

Output: Property Graph

Automatically create Graph Model  
(Foreign key constraint heuristics)



Modify Graph Model



# Demo

- Uses the Sales History Sample schema which is used in Data Warehouse tutorials
  - Customers, Promotions, Sales, Channels
  - Technical products
- Models the data, as graph
- Use the Graph Studio notebook to
  - Discover Patterns
  - Find the most important products
  - Product Recommendation


# Engage with BIWA's Spatial and Graph SIG

- We are a vibrant community of customers and partners that connects and exchanges knowledge online, and at conferences and events.
- Talk with us this week! Look for badges with yellow ribbons
  - **Birds of a feather lunch – Wednesday 12-1pm at the Oracle Café**  
(look for Spatial & Graph tables)
- Join us – we're seeking new members
  - Engage with thought leaders on innovative spatial and graph use cases

Join us online [tinyurl.com/oraclespatialcommunity](https://tinyurl.com/oraclespatialcommunity)

 [LinkedIn Oracle Spatial and Graph group](#)

 [@oraspatialsig](#)

 [oraclespatialsig@gmail.com](mailto:oraclespatialsig@gmail.com)

