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Extend analyses with additional data sources

Every organization has unique needs, which requires analyses from multiple sources of data, beyond what resides in Oracle Cloud Applications (ERP, HCM, CX & SCM). Oracle Fusion Analytics provides a variety of easy and more sophisticated ways to capture these data, from self-service methods to a more governed, curated approach for IT/data engineers that is preserved across Fusion Analytics upgrades.

Extensibility modes

Oracle Fusion Analytics provides the following ways to extend with additional data sources.

Automatic – Oracle Cloud Application flexfield extensions extend automatically to Oracle Fusion Analytics.

Self-service – Leveraging the capabilities of the underlying Oracle Analytics Cloud, anyone can utilize self-service tools for loading, modeling, managing, and visualizing any data.

Centralized – Load additional data sources in the same data repository as your Oracle Cloud Application data to govern and curate all your data together. Use open database APIs or any data integration tool to load, clean and manage data at huge volumes. Semantic model extensibility tools are available to include additional data sources in the semantic model with security.

Self-service data extensibility

There are a variety of ways to include additional data sources to the data model and analyses via self-service.

Native connectors

More than 50 native connectors to various sources, such as Oracle Autonomous Database, Oracle EPM, Google Biq Query, Salesforce, and Snowflake. In addition, connect to any Java Database Connectivity (JDBC) based data source. Get real-time data from Oracle Cloud Applications using the Oracle Cloud Application connector.

See all supported data sources

Oracle Fusion Analytics
Capabilities Explorer

"The idea is for managers to have information at their fingertips, rather than pulling reports together in Excel"

Treva Rumbeck
VP, Global Total Rewards and HR Operations at National Instruments

Next Steps

- Request a demo
- View product tours
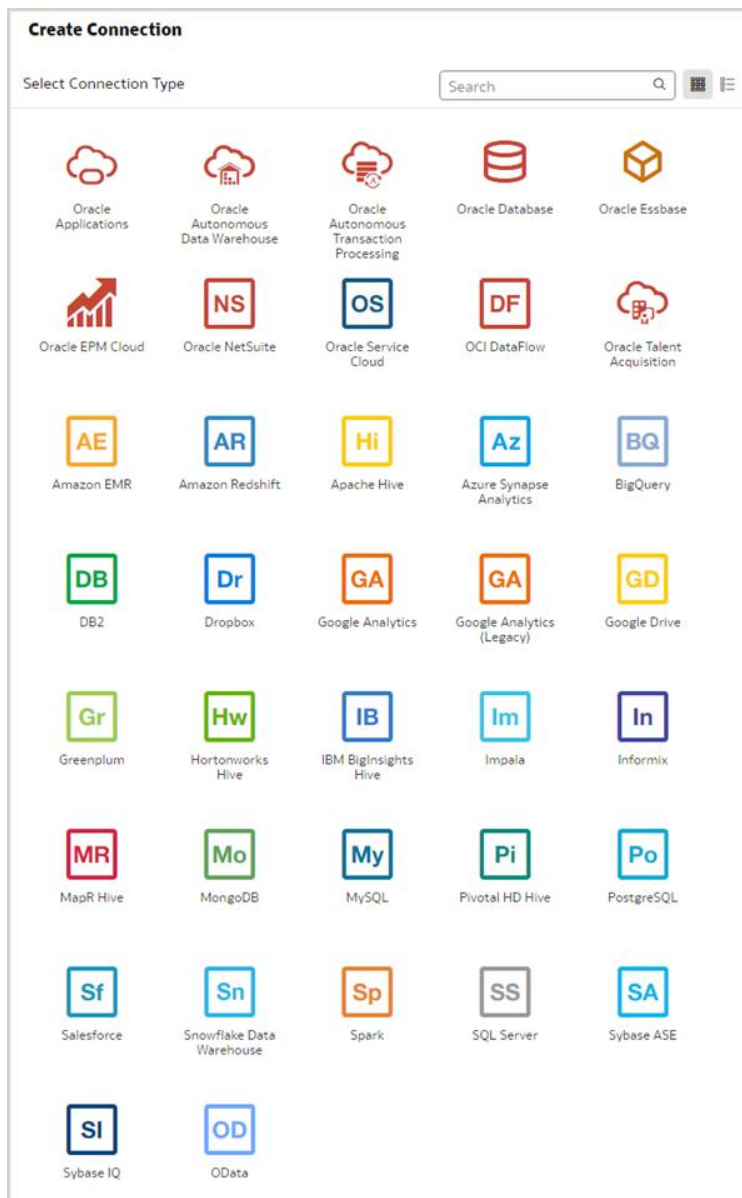- Follow us @OracleAnalytics

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Figure 1 Example of native self-service connectors

Personal and third-party datasets and files

Upload personal datasets such as spreadsheets and comma separated value (CSV) files. Analyse these datasets alone or combine with the prebuilt subject areas of your Oracle Cloud Application data.

Figure 2 Example of an uploaded spreadsheet during data preparation

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Self-service data preparation and transformation

Perform all necessary last-mile data preparation and enrichment tasks for analytics with the code-free capabilities of self-service data flows. Connect multiple data sources whether in the cloud, on-premises, or personal data extracts into cohesive datasets on the cloud. Results can be saved in the embedded Oracle Autonomous Data Warehouse, in Oracle Analytics storage, any connected RDBMS, or Oracle Essbase.
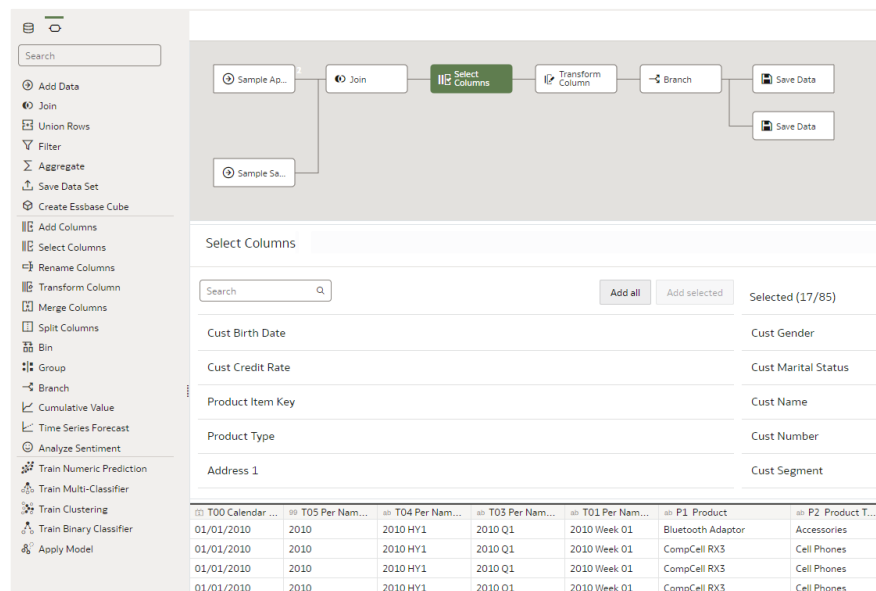

Figure 3 Example of self-service data preparation

Centralized data extensibility

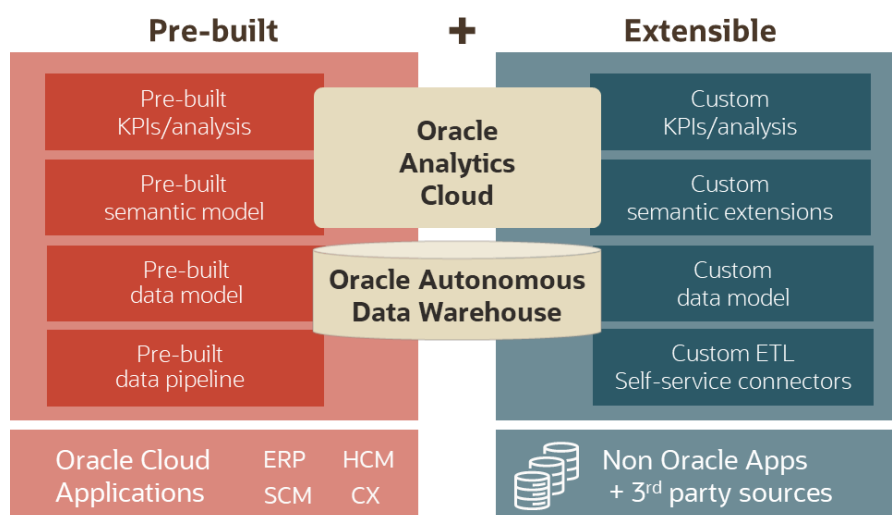The prebuilt data model and semantic model can be extended and preserved across Oracle Fusion Analytics upgrades.

Figure 4 Fusion Analytics prebuilt and extensibility architecture

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Extending the data model

While the prebuilt data model (star schema) for the Oracle Cloud Application data is read-only to ensure all prebuilt KPIs and analyses are never broken, the data model is easily extended by adding external data sources into custom-built database schemas in the same embedded Oracle Autonomous Data Warehouse (ADW) service. Fusion Analytics supports any data movement tool for loading data, such as Oracle Data Integration, any third-party tools, or even plain SQL.

Extending the semantic model

Extending the semantic model is performed via a simple wizard-driven interface, supporting a multi-user development and publishing process. The following customizations are available:
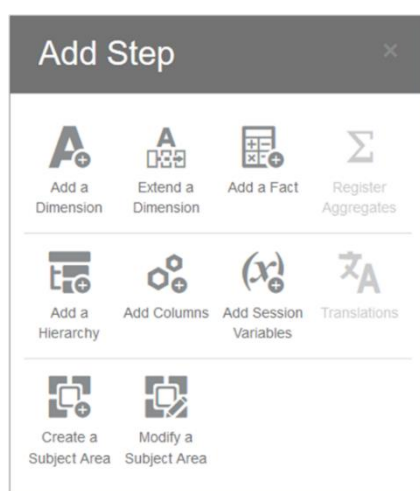

Figure 5 Example of semantic model extensibility capabilities

- **Add a Dimension** to existing subject area
- **Add a Fact Table** to existing subject area
- **Add a Hierarchy** to a dimension table in an existing subject area
- **Add Session Variables** that you can include in the analysis
- **Extend a Dimension** with additional attributes from another data source
- **Add Derived Columns** to an existing subject area
- **Create a Subject Area**
- **Modify a Subject Area**

All semantic model changes follow a test to production, version-controlled publishing process. Data engineers/IT can perform extensibility and testing tasks in the provided test environment. Once changes are ready, they can be published to the production environment. All customizations are preserved across Oracle Fusion Analytics upgrades and patches.

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