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Prebuilt data model and pipelines

Fusion Analytics delivers prebuilt components to remove complexity out of data management tasks. From the data pipeline extraction, transformation and load of Oracle Cloud Application data to a designed cross functional data model, to the provided semantic model that translates the data model for easy and fast analytics consumption, as depicted below:
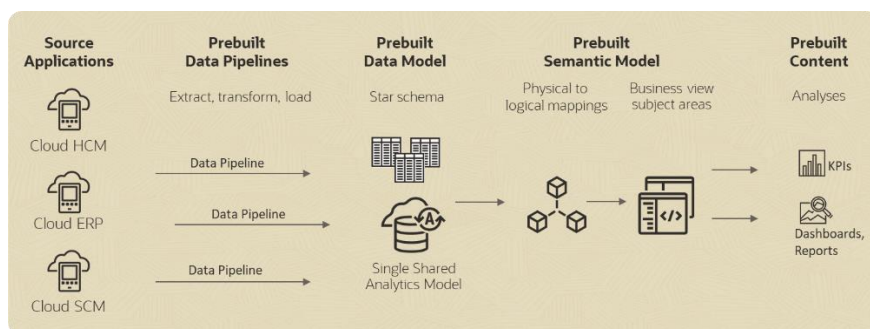

Figure 1 Prebuilt data management tasks of the analytics workflow done for you

Data pipelines to Oracle Cloud Applications

When provisioning Oracle Fusion Analytics, the prebuilt data pipelines for specific functional areas are ready to be activated and scheduled for loading Oracle Cloud Applications data into the prebuilt data model. For example, general ledger is a functional area under finance and talent acquisition is a HR functional area.

Pipelines can be scheduled to refresh data either incrementally or on-demand. Access to data is uninterrupted during the data refresh process (zero downtime).

The data pipelines automatically extract and load Oracle Cloud Application flexfield extensions.

Functional Area	Activated On	Created On	CreatedBy	Updated On	Updated By	Status
Account Reconciliation	10/2/2020, 2:51:51 AM	10/1/2020, 2:50:31 AM	adrienne.howard@oracle.com	10/2/2020, 2:51:52 AM	adrienne.howard@oracle.com	Activation Complete
Accounts Payable	9/27/2020, 5:57:18 AM	3/20/2020, 5:41:08 PM	ananth.venkata@oracle.com	9/30/2020, 4:52:30 PM	adrienne.howard@oracle.com	Activation Complete
Accounts Receivable	9/27/2020, 5:57:24 AM	3/20/2020, 5:41:19 PM	ananth.venkata@oracle.com	9/30/2020, 4:52:30 PM	adrienne.howard@oracle.com	Activation Complete
General Ledger	9/27/2020, 5:57:31 AM	3/20/2020, 5:40:57 PM	ananth.venkata@oracle.com	9/30/2020, 4:52:30 PM	adrienne.howard@oracle.com	Activation Complete
Talent Acquisition	10/12/2020, 12:07:07 PM	10/12/2020, 12:07:07 PM	adrienne.howard@oracle.com	10/12/2020, 12:07:07 PM	adrienne.howard@oracle.com	Activation Complete
Workforce Management	9/27/2020, 5:57:44 AM	3/23/2020, 3:14:46 PM	krishna.prasad.kotti@oracle.com	9/30/2020, 4:52:30 PM	adrienne.howard@oracle.com	Activation Complete

Figure 2 Example of data pipeline activation status

Oracle Fusion Analytics Capabilities Explorer

"Oracle Analytics for Cloud HCM can provide intuitive insights that will help organizations make more informed decisions that will drive lasting business value."

Richard Solari
Managing Director, Deloitte Consulting LLP

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Data model for Oracle Cloud Applications data

The prebuilt data pipelines load Oracle Cloud Applications (ERP,HCM, SCM and CX) data in a single, prebuilt data model which resides in an embedded Oracle Autonomous Data Warehouse service. Data in this immutable star schema is accessible via secured SQL queries or through Fusion Analytics' semantic layer with business role security ensuring reliability, accuracy and high performance.

Additional external data sources can be loaded into custom database schemas in the same Oracle Autonomous Data Warehouse service, thus allowing for star schema extension (see Data Extensibility section).

Semantic model and business subject area views

Oracle Fusion Analytics provides simple business subject area views of the hundreds of physical tables and views in the data model accessing Oracle Cloud Application data. The mappings, rules, and translations between the complex physical data to easily understood and consistent business terms is done for you.

These subject areas are the building blocks for analyses and reports. For example, AP aging, and AR revenue subject areas for finance; and workforce, talent acquisition, and performance management subject areas for HCM. Users can quickly create visualizations and reports by dragging-and-dropping metrics and attributes from these subject areas. Design to answer specific business questions and use cases from the summary levels to the lowest transactional grain analysis.

Subject areas are designed to optimize query execution with fine-grained tuning as well as with data and role-level security. Oracle Cloud Application flexfield extensions are also automatically made available. Users can customize the semantic model (see Data Extensibility section).

Below is a sample list of the prebuilt subject areas business views used to create visualizations and reports from Oracle Cloud application data.

Sample Prebuilt Subject Area Business Views

Financials

- **GL Profitability** - this subject area provides details of base profitability metrics associated with income and expense accounts, and the derived metrics that support the income statement.
- **AR Aging** - this subject area provides the ability to analyse all the open AR transactions with respect to aging details and current and overdue positions.
- **AP Invoices** - this subject area enables the analysis of AP Invoices transaction activity and the associated details at the most granular level.

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Procurement

- **Spend** - this subject area provides the ability to report on total spending of an organization across suppliers, products, item categories, business units, cost centers, buying locations, supplier locations, and associated hierarchy.

- **Agreements** - this subject area provides the ability to report on purchasing agreement measures like consumed amount, count of agreements, day to expire analysed by supplier, procurement item and business units.

- **Purchase Orders** - this subject area combines the information from purchase orders, purchase order costs and purchase schedules.

HCM

- **Workforce Core** - this subject area provides a comprehensive list of metrics to analyse employee assignments and events at the most granular details.

- **Talent Acquisition** - this subject area provides a comprehensive view of the hiring process from candidate and recruiting insights, to recruiting operations insights.

- **Performance Management** - this subject area provides insight into the employee work performance assessed through performance appraisal.

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