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UTILITIES

ORACLE UTILITIES EXTRACTORS AND SCHEMA

KEY FEATURES

- Provides pre-defined extractors

- Uses a single schema for all Oracle Utilities business intelligence applications

- Can be tailored to your specific needs

- Works with Oracle Business Intelligence and other business intelligence applications

- Facilitates utility best practices

KEY BENEFITS

- Slashes business intelligence costs and time to implementation

- Puts actionable data in your hands quickly and easily

- Lowers the total cost of Business Intelligence ownership

- Eliminates down-time between updates to an Oracle Utilities application and updates to the corresponding Extractors and Schema component

- Facilitates cross-correlations and data analysis across multiple application sources through use of a single schema for Oracle Utilities applications

Slash the cost of business intelligence and expedite delivery of actionable information with pre-built extractors and schema for Oracle Utilities applications.

Business Intelligence (BI) applications rely on data that reside within live production applications, where data change constantly. Analyzing data within this environment may be difficult—and attempts to do so may slow production to an unacceptable pace.

Extract-Transform-Load

To cope with this problem, BI applications may extract specific data from the source application(s), transform them into the desired format, and load them into a target database—a "data warehouse" or "data repository" that uses a star schema format. This Extract-Transform-Load (ETL) function may be performed as frequently as demanded by the specific business guidelines—once every five to fifteen minutes for outage and restoration information, twice a day for billing applications, or once per month for financial reports. From there, analytic tools act on the data and enable users to analyze and extract information from within.

Lower Cost

ETL is typically the most expensive aspect of building a business intelligence application "from scratch." But Oracle Utilities Analytics Extractors and Schema slashes ETL costs. Oracle provides pre-built Extractors and Schema components for each major Oracle Utilities application, thus reducing the time needed to implement this part of the BI system by 75 percent or more. That means lower implementation costs, less need to wait for experts, and reduced total cost of ownership.

Each Oracle ETL component help feed data from the Oracle Utilities source application to virtually any business intelligence application—not just Oracle Business Intelligence.

Technology

Oracle Utilities Extractors and Schema components are built with industry standard data integration toolsets like Oracle Data Integrator, Oracle GoldenGate and Oracle Warehouse Builder. Our extraction routines are designed to ensure high performance, and saves significant amount of time for customers through pre-defined source to target data mapping, error capture, and built-in data lineage features. They are designed for high availability and high volume data integration and offer standardized approach and mechanism to extend the schema and load routines to suit specific implementation requirements.

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Schema

Like other business intelligence applications, Oracle Utilities Extractors and Schema uses a star schema (structure) for organizing data. Oracle Utilities Extractors and Schema uses one common schema for all applications. However, the specific data extracted and loaded into the schema are different for each Oracle Utilities source application. The use of one common schema facilitates easier cross correlations and data analysis across multiple application sources.

Most BI applications require experts to design and test schema from scratch—a process that typically takes 15 to 18 weeks. But Oracle Utilities Extractors and Schema arrives pre-defined. It's up and running in a fraction of the time, and supports schema extension through simple standardized means using pre-built "User Defined" constructs.
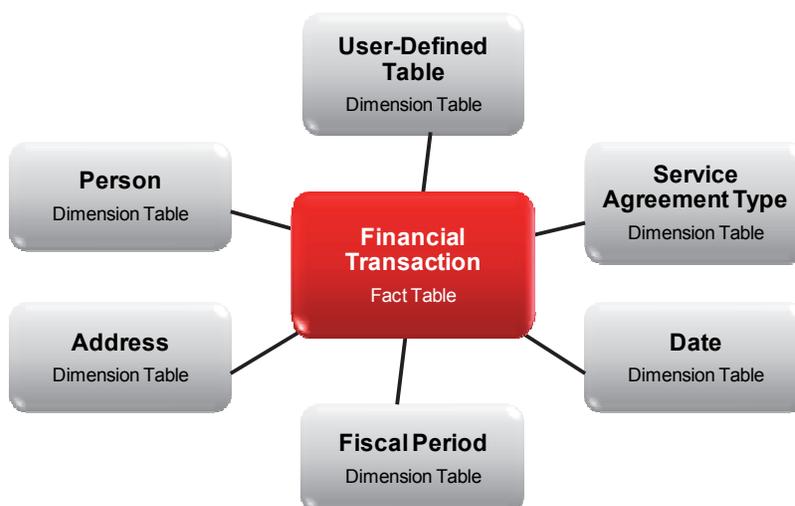
A typical—though highly simplified—part of a utility-oriented star schema.

Pre-Defined Content for Oracle Utilities Applications

Each Oracle Utilities application has a separate and corresponding Extractors and Schema component.

Oracle Utilities Network Management System Extractors and Schema

Fact tables based on Oracle Utilities Network Management System data cover areas such as:

• Incoming customer calls, including time, date, and customer.

• Crew job information, including time of dispatch, duration of travel, time spent onsite.

• Daily, monthly, or yearly outage statistics for various administrative jurisdictions and operational control zones. Standard IEEE measures of reliability as the System Average Interruption Duration Index (SAIDI), the System Average Interruption Frequency Index (SAIFI), the Customer Average Interruption Frequency Index (CAIFI), etc. are calculated by out-of-the-box routines.

• Customers experiencing an outage and (if applicable) the outage duration —historically and in near-real time.

• Detailed outage information such as Estimated Restoration Time, outage duration, customers impacted and the device(s) that failed.

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Oracle Utilities Customer Care and Billing Extractors and Schema

Fact tables based on Oracle Utilities Customer Care and Billing data cover areas such as:

- Arrears – a snapshot of a service agreement's aged debt.

- Billed Usage.

- Cases and Case Logs, which cover details about situations investigated.

- Collections, Uncollectibles, Financials, and Payments.

- Payment Plans , Payment Arrangements, and Billing Cycle

- Financials, including revenue, taxes, and payoffs.

- Service Agreement and Order duration.

- To-Do entries, both historic and recent.

- Customer Contacts.

Oracle Utilities Work and Asset Management Extractors and Schema

Fact tables based on Oracle Utilities Work and Asset Management data cover areas such as:

- Operational Accounting Transaction – amount and hours.

- Storeroom Inventory Snapshot, including quantity on hand, total value, and quantity on demand.

- Storeroom Transactions, including date, value, and quantity.

- Work Order Tasks, including estimated and actual costs for materials and hours.

Oracle Utilities Meter Data Management Extractors and Schema

Fact tables based on Oracle Utilities Meter Data Management cover a broad range of measures related to various aspects of the SmartGrid and AMI such as:

- AMI Performance, and Quality of Reads,

- Consumption

- Device Activities

- VEE Exceptions

- AMI Installation and

- Device Events

Oracle Utilities Mobile Workforce Management Extractors and Schema

Fact tables based on Oracle Utilities Mobile Workforce Management supports several key operational metrics in the following areas:

- Crew Tasks

- Crew Shifts

- Field Activity

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Oracle Utilities Operational Device Management Extractors and Schema

Oracle Utilities Operational Device Management Extractors and Schema helps customers extract relevant data from their Oracle Utilities Operational Device Management transactional application. It also provides the necessary schema component consisting of several facts and dimensions that support the extracted data. The Oracle Utilities Operational Device Management Extractors and Schema supports several key metrics in the following areas:

• Operational Device

• Assets

• Warranty

• Firmware

• Storerooms

• Inventory

Contact Us

For more information about Oracle Utilities Extractors and Schema, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

Hardware and Software, Engineered to Work Together

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