

**Oracle® Healthcare Foundation**

New Features Guide

Release 7.1.1

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## **2 User Documentation**



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# Preface

This guide explains new features and enhancements in Oracle Healthcare Foundation.

This guide is for users who want to learn more about new features and enhancements in this release.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Documents

For more information, see the following documents:

- *Oracle Healthcare Foundation Administration Console Online Help*
- *Oracle Healthcare Foundation Administrator's Guide*
- *Oracle Healthcare Foundation Application Programming Interface Guide*
- *Oracle Healthcare Foundation Application Toolkit Installation Guide*
- *Oracle Healthcare Foundation Appendix*
- *Oracle Healthcare Foundation Data Dictionary*
- *Oracle Healthcare Foundation Electronic Technical Reference Manual*
- *Oracle Healthcare Foundation Installation Guide*
- *Oracle Healthcare Foundation Mapping Metadata*
- *Oracle Healthcare Foundation New Features Guide*
- *Oracle Healthcare Foundation Programmer's Guide*
- *Oracle Healthcare Foundation Quick Reference Guide*
- *Oracle Healthcare Foundation Release Notes*

- *Oracle Healthcare Foundation Security Guide*
- *Oracle Healthcare Foundation Third Party Licenses and Notices*

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## New Features and Enhancements

This chapter contains descriptions of the new features and enhancements in Oracle Healthcare Foundation.

### 1.1 Application Toolkit

The following new subject areas are added to Healthcare Common Data mart (HCD):

- Order
- Prescription
- Patient History

There are 6 new fact tables and 16 new dimensions added to HCD.

The following table lists the new fact tables:

Order	Substance Administration Order	Substance Administration Order Line
Prescription	Prescription Line	Patient History

The following table lists the new dimension tables:

Patient History Subtype	Patient History Code	Patient History Value Type	Patient History Value Code
Patient History Status Code	Patient History Reason Code	Order Code	Order Subtype
Order Status Code	Order Schedule Code	Order Priority Code	Order Signing Status Code
Order Reason Code	Prescription Type	Transmission Type	Prescription Status Code

### 1.2 Application Toolkit Loaders

#### 1.2.1 Application Toolkit ETLs

New application toolkit ETLs are provided for the following tables:

- Order
- Substance Administration Order
- Substance Administration Order Line
- Prescription

- Prescription Line
- Patient History

## 1.3 Self-Service Analytics

A new Healthcare Common Data Mart RPD compatible with Oracle Business Intelligence 12c is delivered. There are 6 new subject areas added that you can use to create reports and dashboards.

The following are the new subject areas:

- Order
- Substance Administration Order
- Substance Administration Order Line
- Prescription
- Prescription Line
- Patient History

The following sections explain the new features added to the Self-Service Analytics Tool.

### 1.3.1 Level-based Measures

This feature provides the ability to define level-based measures while defining calculated columns in the OBIEE RPD file. The purpose of level-based measures is to perform calculations at a specific level of aggregation for one or multiple dimensions, which allows data to be returned at different levels of aggregation with a single query.

### 1.3.2 Semi-additive Measures

This feature allows the creation of semi-additive measures in the OBIEE RPD file to allow specification of alternative aggregation rules for selected dimensions related to either the base or calculated measures.

### 1.3.3 Calculated Columns with all Weight Columns

This feature provides the ability to define calculated columns on a fact table having several associated bridge tables, using weight columns from all associated bridge tables.

### 1.3.4 Multiple Annotation File Support

This feature extends the existing annotation framework to provide the ability to process multiple annotations files.

### 1.3.5 Hide Logical Columns Using Naming Conventions

This feature is useful for hiding system columns that are not useful in BI reports or to hide by default all user-defined columns. This is achieved by defining a new property *bi.hide\_columns\_regex* in the properties file. Some user-defined columns may be re-enabled, as required.



### 1.3.6 Subject Areas Without Folders

Role-playing dimensions and degenerate dimensions in the OBIEE Presentation Layer are by default placed in separate folders. The new property *bi.presentation\_folder* avoids grouping of presentation tables into folders when its value is set to *false*. This produces a flat subject area structure that is easier to navigate for the user.

### 1.3.7 Use Variables in Calculated Column Definitions

This feature supports RPD variable creation and use of these variables in expressions of calculated columns. This improves the expressiveness of the calculated columns and also helps avoid manual modification of calculated columns after the initial RPD generation.

## 1.4 Cohort Data Mart

The following new subject areas are added to and enhanced in Cohort Data mart (CDM):

- Specimen Alias - Contains information about the alias names for specimens.
- Specimen Metadata - Consists of a predefined set of new attributes in Specimen bridge tables as well as new tables for user definable attributes related to specimens.
- Patient Groups and association of Patients to Patient Groups
- New attributes in Service Provider dimension and Study dimension
- New filter on Patient Observation and Subject Observation bridge tables to segregate observation data from specimen metadata

There are 5 new bridge tables and 6 new dimensions added to CDM. Also, 2 dimensions and 2 bridge tables are enhanced.

The following table lists the new bridge tables:

Patient Specimen Alias	Subject Specimen Metadata	Subject Specimen Alias
Patient Group Patient	Patient Specimen Metadata	-

The following table lists the new dimension tables:

Specimen Subtype	Specimen Metadata	Specimen Status Code
Study Phenotype	Specimen Method Code	Patient Group

The following table lists the enhanced bridge tables:

Patient Specimen	Patient Observation
Subject Specimen	Subject Observation

The following table lists the enhanced dimension tables:

Service Provider	Study
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## 1.5 Administration Console

The following are added in this release:

- Cohort Data Mart (CDM) loader is included as part of ETL Load Summary
- Omics Load Summary

## 1.6 Omics Loaders

Performance of the gVCF loaders is optimized.

## User Documentation

This chapter provides a list of Oracle Healthcare Foundation user documentation, description, and the audience.

**Table 2–1 User Documentation**

Document Name	Description	Audience
Oracle Healthcare Foundation Administration Console Online Help	Provides information about implementation, configuration, and administration of Oracle Healthcare Foundation Administration Console.	Users who are responsible for administration of Oracle Healthcare Foundation. They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, and Business Intelligence developers.
Oracle Healthcare Foundation Administrator's Guide	Provides information about implementation, configuration, and administration of Oracle Healthcare Foundation. It also provides details on system monitoring and performance optimization.	Users who are responsible for administration of Oracle Healthcare Foundation. They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, and Business Intelligence developers.
Oracle Healthcare Foundation Application Programming Interface Guide	Contains information on Application Programming Interfaces (APIs) that can be used to interface with Oracle Healthcare Foundation.	Users who load Omics data.
Oracle Healthcare Foundation Application Toolkit Installation Guide	Explains the installation of Oracle Healthcare Foundation Application Toolkit.	Users who want to install Oracle Healthcare Foundation Application Toolkit.
Oracle Healthcare Foundation Appendix	Contains default load sequence, sample master data, and unique dependency list for HDM tables.	Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, Business Analysts, Product Managers, Business Intelligence developers, Bioinformaticians, Computational Biologists, Clinicians, Scientists, Developers, and administrators.
Oracle Healthcare Foundation Configuration Guide	Contains configuration details of Oracle Healthcare Foundation.	Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, and Business Intelligence developers.
Oracle Healthcare Foundation Data Dictionary	Provides information about the attributes of each Entity and the relationship between these Entities.	Business Analysts, Clinical Analysts, Implementation Analysts, Developers, or anyone that wants a basic understanding about the Healthcare Data Warehouse model.
Oracle Healthcare Foundation Electronic Technical Reference Manual	Contains data models technical references.	Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, Business Analysts, Product Managers, Business Intelligence developers, Bioinformaticians, Computational Biologists, Clinicians, Scientists, Developers, and administrators.

**Table 2–1 (Cont.) User Documentation**

<b>Document Name</b>	<b>Description</b>	<b>Audience</b>
Oracle Healthcare Foundation Installation Guide	Explains the installation and initial setup of Oracle Healthcare Foundation.	Users who want to install Oracle Healthcare Foundation.
Oracle Healthcare Foundation Mapping Metadata	Contains end-to-end mappings.	Users of Oracle Healthcare Foundation who are responsible for loading data from source systems to Oracle Healthcare Foundation and developing self-service business intelligence applications. They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, Business Analysts, Product Managers, Business Intelligence developers, Bioinformaticians, Computational Biologists, Clinicians, Scientists, Developers, and administrators.
Oracle Healthcare Foundation New Features Guide	Explains new features and enhancements in Oracle Healthcare Foundation.	Users who want to learn more about new features and enhancements in this release.
Oracle Healthcare Foundation Programmer’s Guide	Describes architecture, features, and components of Oracle Healthcare Foundation.	Users of Oracle Healthcare Foundation who are responsible for loading data from source systems to Oracle Healthcare Foundation and developing self-service business intelligence applications. They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, Business Analysts, Product Managers, Business Intelligence developers, Bioinformaticians, Computational Biologists, Clinicians, Scientists, Developers, and administrators.
Oracle Healthcare Foundation Quick Reference Guide	Provides the configuration details and the process for data loading.	Users who are responsible for administration of Oracle Healthcare Foundation. They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, and Business Intelligence developers.
Oracle Healthcare Foundation Release Notes	Provides a complete, up-to-date description of Oracle Healthcare Foundation.	Users who want to learn more about new features and enhancements in this release.
Oracle Healthcare Foundation Security Guide	Describes various security guidelines for the Oracle Healthcare Foundation installation.	They include Data Warehouse Administrators, ETL Developers and Administrators, System Administrator, and Business Intelligence developers.
Oracle Healthcare Foundation Third Party Licenses and Notices	Contains third party licenses information distributed with Oracle Healthcare Foundation.	Users who want to install Oracle Healthcare Foundation.