

# Oracle® Database

Examples Installation Guide

12c Release 1 (12.1)

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This document describes how to install and configure the products available on the Oracle Database Examples media. It includes the following sections:

- [Products Available on the Oracle Database Examples Media](#)
- [Preinstallation Considerations](#)
- [Accessing the Installation Software](#)
- [Installing Oracle Database Examples](#)
- [Documentation Accessibility](#)

## 1 Products Available on the Oracle Database Examples Media

The following sections describe the products that are installed. You must install these products in an existing Oracle Database 12c Oracle home:

- [Oracle Database Examples](#)
- [Oracle JDBC Development Drivers](#)
- [Oracle Text Knowledge Base](#)

### 1.1 Oracle Database Examples

Oracle Database Examples include a variety of examples and product demonstrations that you can use to learn about the products, options, and features of Oracle Database. Many of these examples are designed to work with the sample schemas, which you can install in any Oracle Database. Many documents in the Oracle Documentation Library use the example programs and scripts provided with the Oracle Database Examples.

This section contains the following topics:

- [Oracle Data Mining Demos](#)
- [Oracle Globalization Support Demos](#)
- [Oracle Message Gateway Common Companion Files](#)
- [Oracle Multimedia Demos](#)
- [Oracle Precompiler Demos](#)
- [Oracle Spatial and Graph Demos](#)
- [Oracle SQLJ Demos](#)
- [Oracle Internet Directory Client Demos](#)

- [Oracle XML Demos](#)
- [Oracle Call Interface Demos](#)
- [Oracle C++ Call Interface Demos](#)
- [Oracle ODBC Companion](#)

### 1.1.1 Oracle Data Mining Demos

Oracle Data Mining Demos include Data Mining sample programs that can help you in learning about Oracle Data Mining APIs. The programs illustrate typical approaches to data preparation, algorithm selection, algorithm tuning, testing, and scoring. Each program creates a mining model in the database. All the programs include extensive inline comments to help you understand the code.

**See Also:** Appendix A, "The Data Mining Sample Programs" in *Oracle Data Mining User's Guide* for more information about these demos

### 1.1.2 Oracle Globalization Support Demos

Oracle Globalization Demos showcase the features and APIs of the Oracle Globalization Development Kit (GDK), which offers a complete framework to ease the development of globalized internet applications. The GDK Example demo illustrates individual functionalities such as locale-sensitive data formatting, linguistic sorting, locale mapping, locale determination, and language detection. The Oracle Store demo illustrates how the GDK features can be integrated to build a complete multilingual J2EE web application that serves users with vastly different locale preferences.

**See Also:** Chapter 8, "Oracle Globalization Development Kit" in *Oracle Database Globalization Support Guide* for more information about these demos

### 1.1.3 Oracle Message Gateway Common Companion Files

Oracle Messaging Gateway enables communication between applications based on non-Oracle messaging systems and Oracle Streams AQ. Oracle Streams AQ provides propagation between two Oracle Streams AQ queues to enable e-business (HTTP through IDAP). Messaging Gateway extends this to applications based on non-Oracle messaging systems. The samples provided for Messaging Gateway illustrate message propagating with Oracle AQ, WebSphere MQ Series, and Tibco Rendezvous using message formats that include JMS, LCR, and XML.

There are seven different samples provided with Messaging Gateway, each located in their own subdirectory. Each sample includes a README file that contains detailed information for setting up and executing the samples.

### 1.1.4 Oracle Multimedia Demos

Oracle Multimedia (formerly Oracle *interMedia*) is a feature that enables Oracle Database to store, manage, and retrieve images, audio, video, or other heterogeneous media data in an integrated fashion with other enterprise information. Oracle Multimedia extends Oracle Database reliability, availability, and data management to multimedia content in traditional, Internet, electronic commerce, and media-rich applications. It includes many scripts and sample applications that you can use. These consist of OCI, SQL, Java, PL/SQL, and ASP/VBScript sample applications (demos).

### 1.1.5 Oracle Precompiler Demos

Oracle Precompiler Demos show application programmers how to embed SQL operations in C/C++ and COBOL code in a way that is compatible with ANSI standard. A Pro\*C program is a C program containing embedded SQL statements. Oracle Pro\*C/C++ and Pro\*COBOL Demos offer extensions to support dynamic SQL operations, which are operations that can change in real time. It is also possible to use dynamic SQL operations through PL/SQL code (known as anonymous PL/SQL block) with a Pro\*C/C++ and Pro\*COBOL application. Typical applications contain much more static SQL than dynamic SQL. The precompiler translates each embedded SQL statement into calls to the Precompiler run-time library (SQLLIB).

**See Also:**

- "Sample Programs" in *Pro\*C/C++ Programmer's Guide*
- "Sample Programs" in *Pro\*COBOL Programmer's Guide*

### 1.1.6 Oracle Spatial and Graph Demos

Oracle Spatial and Graph is an integrated set of functions and procedures that enables spatial data to be stored, accessed, and analyzed quickly and efficiently in an Oracle database. Spatial data represents the essential location characteristics of real or conceptual objects as those objects relate to the real or conceptual space in which they exist. Oracle Spatial and Graph Demos provide SQL schema and functions that facilitate the storage, retrieval, update, and query of collections of spatial features in an Oracle database.

**See Also:**

- "Spatial Examples" in *Oracle Spatial and Graph Developer's Guide*
- "GeoRaster PL/SQL and Java Demo Files" in *Oracle Spatial and Graph GeoRaster Developer's Guide*
- "Network Data Model Graph Tutorial and Other Resources" in *Oracle Spatial and Graph Topology Data Model and Network Data Model Graph Developer's Guide*

### 1.1.7 Oracle SQLJ Demos

Oracle SQLJ Demos show application programmers how to embed SQL operations in Java code in a way that is compatible with the Java design philosophy. A SQLJ program is a Java program containing embedded SQL statements. Oracle SQLJ Demos offer extensions to support dynamic SQL operations, which are operations that can change in real time. It is also possible to use dynamic SQL operations through JDBC code or PL/SQL code within a SQLJ application. Typical applications contain much more static SQL than dynamic SQL. SQLJ consists of both a translator and a run-time component and is smoothly integrated into the development environment.

**See Also:** *Oracle Database SQLJ Developer's Guide* for more information about these demos

### 1.1.8 Oracle Internet Directory Client Demos

Oracle Internet Directory Client Demos show application programmers how to use LDAP C and PL/SQL APIs. All LDAP operations based on the C API, require clients to establish an LDAP session with the LDAP server. For LDAP operations based on the PL/SQL API, a database session must first initialize and open an LDAP session. The DBMS\_LDAP package enables PL/SQL applications to access data located in LDAP servers. The names and syntax of the function calls are similar to those of the C API.

**See Also:** "Sample C API Usage" in *Oracle Fusion Middleware Application Developer's Guide for Oracle Identity Management*

### 1.1.9 Oracle XML Demos

Oracle XML Demos showcase the features of the Oracle XML Developer's Kit (XDK), which is a versatile set of components that enables you to build and deploy C, C++, and Java software programs that process XML.

**See Also:** "Running Oracle XML Developer's Kit JavaBean Demo Programs", "Using the XML C++ Class Generator Examples", and "Using the XML Parser Command-Line Utility: Example" in *Oracle XML Developer's Kit Programmer's Guide*

### 1.1.10 Oracle Call Interface Demos

Oracle Call Interface (OCI) demos include sample C programs to build the OCI APIs. These programs provide examples of the data types, calling conventions, syntax, and semantics of C. The installed demos illustrate the use of OCI features.

**See Also:** "OCI Demonstration Programs" in *Oracle Call Interface Programmer's Guide* for more information about these demos

### 1.1.11 Oracle C++ Call Interface Demos

Oracle C++ Call Interface (OCCI) demos provide database access APIs for applications written in C++. The control classes enable the applications to connect to the database and create resources like statements and resultsets. The data classes contain various types of data. The object classes and methods provide a navigational interface to access and manipulate objects. The Object Type Translator (OTT) can be used to generate the C++ class headers for the data types defined in Oracle database. The installed demos illustrate the use of classes and methods for OTT and OCCI.

**See Also:** "Building OCCI Demos" in *Oracle C++ Call Interface Programmer's Guide* for more information about these demos

### 1.1.12 Oracle ODBC Companion

Oracle ODBC Driver demos provide basic structure of an ODBC application which can be extended to make a full-fledged ODBC application. ODBC being a standard, plenty of sample applications may be found in books which discuss the concept of ODBC driver. For Oracle ODBC Driver specific options, see Help while setting up Data Source Name on Windows.

**See Also:** "Using Oracle ODBC Driver" in *Oracle Database Administrator's Reference for Linux and UNIX-Based Operating Systems* for more information about these demos

## 1.2 Oracle JDBC Development Drivers

Oracle provides a set of JDBC drivers that you can use for debugging the code and other deployment scenarios. These drivers can access Oracle Database release 8.1.7 or later.

## 1.3 Oracle Text Knowledge Base

Oracle Database Examples media installs two Oracle Text knowledge bases, English and French. You can extend the supplied knowledge bases depending on your requirements. Alternatively, you can create your own knowledge bases, in languages other than English and French.

**See Also:** *Oracle Text Reference* for more information about extending knowledge bases

## 2 Preinstallation Considerations

The requirements for installing Oracle Database Examples are as follows:

- [Free Disk Space](#)
- [Required Products](#)

### 2.1 Free Disk Space

Verify that the file system that contains the Oracle home directory has at least 785 MB of free disk space on UNIX systems and at least 700 MB of free disk space on Windows systems.

On UNIX platforms:

Use the `df -k oracle_home_path` command to check that the Oracle home directory has enough space.

`oracle_home_path` is the directory where Oracle home is installed.

On Windows:

1. Double-click **My Computer**.
2. Right-click the drive where the Oracle software is to be installed.
3. Select **Properties**.

### 2.2 Required Products

Before you can use the Oracle Database Examples, you must install the sample schemas in an Oracle Database. When you install Oracle Database, or use Database Configuration Assistant to create a database, you can choose to include the sample schemas. You can also manually install the sample schemas in an existing database.

## 3 Accessing the Installation Software

Before you install products from the Oracle Database Examples media, you must ensure that your system has access to an Oracle Database 12c Oracle home. If required, you must first install or upgrade to this release of Oracle Database.

Identify the Oracle home directory used by the Oracle Database installation.

On UNIX platforms, the `oratab` file is located in the `/etc` directory or in the `/var/opt/oracle` directory. Use the `more` command to check the contents of the `oratab` file. For example:

```
# more /etc/oratab
```

On Windows platforms:

1. From the Start menu, choose **Programs**, then **Oracle - HOME\_NAME**, then **Oracle Installation Products**, then **Universal Installer**.
2. When the Welcome screen appears, click **Installed Products**.  
The Inventory screen appears, listing all of the Oracle homes on the system and the products installed in each Oracle home.
3. On the Inventory screen, expand each Oracle home and locate **Oracle Database 12c**.
4. Click **Close** and then **Cancel** to exit Oracle Universal Installer.

### 3.1 Downloading Oracle Database Examples

This section describes how to download Oracle Database Examples on your computer to a location other than Oracle Database 12c Oracle home.

1. Go to the Oracle Database 12c download page on Oracle Technology Network:  
<http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>
2. Select the **See All** link, and then select the Oracle Database Examples zip file under the heading Oracle Database 12c Examples.

## 4 Installing Oracle Database Examples

Oracle Database Examples installs the product demonstrations in the Oracle home directory and the SQL scripts for the sample schemas in the `$ORACLE_HOME/demo/schema` directory. To use these product demonstrations, you must install the sample schemas in the database. If the sample schemas are not included during an Oracle database installation or during database creation using Database Configuration Assistant, then you can manually install them by running the SQL scripts. Refer to section "Manually Installing Sample Schemas" in *Oracle Database Sample Schemas* for more information.

Use one of the following methods to install Oracle Database Examples:

- [Installation Using Oracle Universal Installer](#)
- [Silent Installation Using Response Files](#)

### 4.1 Installation Using Oracle Universal Installer

You must install Oracle Database Examples in an existing Oracle Database 12c Oracle home.

To install Oracle Database Examples:

1. Log in to the computer where Oracle Database is installed.

On UNIX platforms, log in as the Oracle software owner user (`oracle`) and set the `DISPLAY` environment variable.

On Windows platforms, log in as an Administrator or as a member of the Administrators group to the computer on which you want to install Oracle components. If you are installing on a Primary Domain Controller (PDC) or a Backup Domain Controller (BDC), log on as a member of the Domain Administrators group.

2. Verify that the Oracle Database that you plan to use is accessible as described in [Section 3, "Accessing the Installation Software."](#)
3. Navigate to the directory where you downloaded the installation files.
4. Use the `unzip` utility to extract the contents of the zip file.
5. Run the following command to start Oracle Universal Installer:

On UNIX platforms:

```
$ ./runInstaller
```

On Windows platforms:

Double-click `setup.exe`.

6. On the Specify Installation Location screen, enter the following:
  - Oracle Base: The Oracle base path appears by default. You can change the path based on your requirement. Specify the Oracle Base path.  
  
The Oracle base directory is a top-level directory for Oracle software installations.
  - Software Location: In the Software Location field, accept the default value or enter the Oracle home directory path where you want to install Oracle Database Examples. You must install Oracle Database Examples in an existing Oracle home.

**See Also:** [Section 3, "Accessing the Installation Software"](#) on page 5 for information about finding the Oracle home

If Oracle Real Application Clusters (Oracle RAC) is installed in the Oracle home that you select, then Oracle Universal Installer displays the Grid Installation Options screen. The examples software is installed in the selected Oracle RAC home on all the nodes where it exists. The nodes listed in the table are the nodes on which the Oracle Inventory has registered an installed Oracle RAC home.

Ensure that each node listed is up and running before you click **Next**.

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**Note:** On an Oracle RAC installation, the software is installed on all the cluster nodes.

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7. On the Perform Prerequisite Checks screen, check for and correct any errors that may have occurred while Oracle Universal Installer was checking your system. If you click **Check Again**, then you can run the prerequisite check again to see if the

minimum requirements are met to carry on with the installation. Click **Fix & Check Again**, if you want the installer to fix the problem and check the system requirements again.

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**Note:** The Fix & Check Again option generates a script (UNIX only) that sets some system parameters to Oracle-recommended values. You must run the script as the `root` user. Oracle recommends that you do not modify the contents of this script.

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From the list, select an option:

- Show Failed: To get a list of prerequisite checks that failed.
  - Show All: To get a list of all the prerequisite checks run.
  - Show Succeeded: To get a list of the prerequisite checks that were successful.
8. Review the information displayed on the Summary screen and click **Install**.

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**Note:** Click **Save Response File** to save all the installation steps into a response file. Later, you can use this file for a silent installation.

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9. The Install Product screen appears when the product is installing. Installation operations include executing actions such as file copy and adding services on Windows systems and linking on UNIX systems, and executing decision points and calculations.
10. The Finish screen appears when the installation is completed.
- Click **Close** to exit Oracle Universal Installer.

## 4.2 Silent Installation Using Response Files

To perform a silent installation of Oracle Database Examples, you must start Oracle Universal Installer in silent or response file mode. Enter a command similar to the following:

On UNIX platforms:

```
$ /directory_path/runInstaller [-silent] [-noconfig] \  
-responseFile responsefilename
```

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**Note:** Do not specify a relative path to the response file. If you specify a relative path, then Oracle Universal Installer fails.

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where:

- `directory_path` is the path of the database directory on the DVD or on the hard drive.
- `-silent` runs Oracle Universal Installer in silent mode.
- `-noconfig` suppresses running the configuration assistants during installation.

- *responsefilename* is the full path and file name of the installation response file that you configured.

On Windows platforms:

```
DRIVE_LETTER:\setup.exe_location setup [-silent] "variable=setting" [-nowelcome] [-noconfig] [-nowait] -responseFile
```

where:

- *DRIVE\_LETTER*: Identifies the full path of the response file.
- *setup.exe\_location*: Indicates the location of *setup.exe*.
- "variable=setting" refers to a variable within the response file that you may prefer to run at the command line rather than set in the response file. Enclose the variable and its setting in quotes.
- *-noconfig*: Suppresses running the configuration assistants during installation.
- *-nowait*: Closes the console window when the silent installation completes.

## 5 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 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.

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