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Provides information for installing the Oracle SQL Developer tool on Windows2000, Windows XP, Linux, and Mac OS X systems.
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Preface

This guide provides information for those installing the Oracle SQL Developer tool on Windows 2000, Windows XP, Linux, and Mac OS X systems.

Audience

This guide is intended for those who need to install the Oracle SQL Developer tool.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at

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Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

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Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, seven days a week. For TTY support, call 800.446.2398.
Related Documents

For conceptual, usage, and reference information about Oracle SQL Developer, see the online help available when you are running SQL Developer.

Oracle error message documentation is only available in HTML. If you only have access to the Oracle Documentation CD, you can browse the error messages by range. Once you find the specific range, use your browser’s “find in page” feature to locate the specific message. When connected to the Internet, you can search for a specific error message using the error message search feature of the Oracle online documentation.

Printed documentation is available for sale in the Oracle Store at

http://oraclestore.oracle.com/

To download free release notes, installation documentation, white papers, or other collateral, go to the Oracle Technology Network (OTN). You must register online before using OTN; registration is free and can be done at

http://www.oracle.com/technology/membership

If you already have a user name and password for OTN, then you can go directly to the documentation section of the OTN Web site at

http://www.oracle.com/technology/documentation

Conventions

The following text conventions are used in this document:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>

Third-Party License Information

Oracle SQL Developer contains third-party code. Oracle is required to provide the following notices. Note, however, that the Oracle program license that accompanied this product determines your right to use the Oracle program, including the third-party software, and the terms contained in the following notices do not change those rights.

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Antlr v 2.7.3
http://www.antlr.org/rights.html

OracleAS TopLink uses Antlr for EJB QL parsing. Antlr (ANother Tool for Language Recognition), is a language tool that provides a framework for constructing recognizers, compilers, and translators from grammatical descriptions containing C++ or Java actions. The ANTLR parser and translator generator is fully in the public domain.

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Installing Oracle SQL Developer

Note: This guide assumes that you plan to download the SQL Developer kit (.zip) file and install it as a freestanding tool.

If you plan to SQL Developer as part of the Oracle Database release 11 installation, see the Oracle Database installation documentation.

Please read the information in this chapter before you install Oracle SQL Developer. This chapter contains the following major sections:

- Section 1.1, "SQL Developer System Recommendations"
- Section 1.2, "Installing and Starting SQL Developer"
- Section 1.3, "Migrating User Settings from Release 1.0"
- Section 1.4, "Migrating Information from Previous Releases"
- Section 1.5, "Location of User-Related Information"
- Section 1.6, "Database Certification for SQL Developer (Oracle and Third-Party)"
- Section 1.7, "Advanced Security for JDBC Connection to the Database"
- Section 1.8, "Finding SQL Developer Accessibility Information"
- Section 1.9, "Using a Screen Reader and Java Access Bridge with SQL Developer"
- Section 1.10, "Uninstalling SQL Developer"
- Section 1.11, "SQL Developer Documentation"
- Section 1.12, "Oracle on the Web"

1.1 SQL Developer System Recommendations

This section describes the recommended minimum values for CPU, memory, display, disk storage, and other resources on the supported systems.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Recommended Minimum Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 2000-Service Pack 4</td>
</tr>
<tr>
<td></td>
<td>Windows XP-Service Pack 2</td>
</tr>
<tr>
<td></td>
<td>Windows 2003 R2</td>
</tr>
<tr>
<td>CPU Type and Speed</td>
<td>Pentium IV 2 GHz MHz or faster</td>
</tr>
</tbody>
</table>
1.2 Installing and Starting SQL Developer

This section contains subsections with instructions for installing SQL Developer on all supported systems.

SQL Developer does not require an installer. To install SQL Developer, you will need an unzip tool. You can download a free, cross-platform unzip tool, Info-Zip, available at http://www.info-zip.org/.

**Important:** Do not install SQL Developer into any existing ORACLE_HOME. You will not be able to uninstall it using Oracle Universal Installer.
Installing and Starting SQL Developer

For Windows systems, there are two kits: one for systems on which the Sun Java SDK release 1.5 is installed, and another for systems with no Java SDK or a Sun Java SDK release lower than 1.5. Be sure to download the appropriate kit.

Before you install SQL Developer, look at the remaining sections of this guide to see if you need to know or do anything else first.

The steps for installing SQL Developer depend on whether or not you will be using it on a Windows system that does not have the Sun Java SDK release 1.5 installed:

- For a Windows system with the Sun Java release 1.5 installed, follow the instructions in Section 1.2.1.
- For all other systems (Linux and Mac OS X systems, and Windows systems with no Java SDK or a Sun Java SDK release lower than 1.5 installed), follow the instructions in Section 1.2.2.

### 1.2.1 Windows Systems with JDK1.5

To install and start SQL Developer on a Windows system on which the Sun Java SDK release 1.5 is installed, follow these steps:

1. Unzip the SQL Developer kit into a folder (directory) of your choice (for example, C:\Program Files). This folder will be referred to as `<sqldeveloper_install>`.

   Unzipping the SQL Developer kit causes a folder named `sqldeveloper` to be created under the `<sqldeveloper_install>` folder (for example, C:\Program Files\sqldeveloper). It also causes many files and folders to be placed in and under that directory.

2. To start SQL Developer, go to `<sqldeveloper_install>\sqldeveloper`, and double-click `sqldeveloper.exe`.

   If you are asked to enter the full pathname for java.exe, click **Browse** and find java.exe. For example, the path might have a name similar to `C:\Program Files\Java\jdk1.5.0_06\bin\java.exe`.

   After SQL Developer starts, you can connect to any database by right-clicking the Connections node in the Connections Navigator and selecting **New Database Connection**. Alternatively, if you have any exported connections (see Section 1.4 or Section 1.10), you can import these connections and use them.

   You can learn about SQL Developer by clicking **Help**, then **Table of Contents**, and reading the help topics under **SQL Developer Concepts and Usage**.

### 1.2.2 Linux and Mac OS X Systems, and Windows Systems without JDK 5.0

SQL Developer requires that the Sun Java J2SE JDK 5.0 (Update 5 or later) be installed on the system. If you need to install this JDK, go to [http://java.sun.com/j2se/1.5.0/download.jsp](http://java.sun.com/j2se/1.5.0/download.jsp) and click the link for downloading JDK 5.0 Update 6 (or the most recent available update).

---

**Important:** If you are using a pre-release (Early Adopter) version of SQL Developer, and if you want to be able to continue to use this pre-release version after installing the official release kit, you **must** unzip the official release kit into a different directory than the one used for the pre-release version.
To install and start SQL Developer, follow these steps:

1. Unzip the SQL Developer kit into a directory (folder) of your choice. This directory location will be referred to as `<sqldeveloper_install>`. Unzipping the SQL Developer kit causes a directory named `sqldeveloper` to be created under the `<sqldeveloper_install>` directory. It also causes many files and folders to be placed in and under that directory.

2. To start SQL Developer, go to the `sqldeveloper` directory under the `<sqldeveloper_install>` directory, and do one of the following, as appropriate for your operating system:
   - On Linux and Mac OS X systems, run `sh sqldeveloper.sh`.
   - On Windows systems, double-click `sqldeveloper.exe`.

After SQL Developer starts, you can connect to any database by right-clicking the Connections node in the Connections Navigator and selecting New Database Connection. Alternatively, if you have any exported connections (see Section 1.4 or Section 1.10), you can import these connections and use them.

You can learn about SQL Developer by clicking Help, then Table of Contents, and reading the help topics under SQL Developer Concepts and Usage.

1.3 Migrating User Settings from Release 1.0

The first time you start SQL Developer after installing it or after adding any extensions, you are asked if you want to migrate your user settings from a previous release. (This occurs regardless of whether there was a previous release on your system.)

**Note:** Migration of user settings is supported only from SQL Developer Release 1.0 to Release 1.1. It is not supported for migration from a pre-release version of 1.1 to Release 1.1.

These settings refer to database connections, reports, and certain SQL Developer user preferences that you set in a previous version by clicking Tools and then Preferences. However, some user preferences are not saved, and you must re-specify these using the new release.

To migrate user settings from SQL Developer Release 1.0:

1. Unzip the Release 1.1 kit into an empty directory (folder). Do not delete or overwrite the directory into which you unzipped the Release 1.0 kit.

2. When you start SQL Developer Release 1.1, click Yes when asked if you want to migrate settings from a previous release.

3. In the dialog box that is displayed, do not accept the default location for the settings. Instead, specify the location of your Release 1.0 settings, which might be a folder whose path ends with `sqldeveloper\jdev\system`.

See also Section 1.4, "Migrating Information from Previous Releases".

1.4 Migrating Information from Previous Releases

If you have used a previous release of SQL Developer or a pre-release version of the current release, you may want to preserve database connections that you have been
using. To preserve database connections, save your existing database connections in an XML file. To save the connections, right-click the Connections node in the Connections Navigator and select Export Connections. After you complete the installation described in this guide, you can use those connections by right-clicking the Connections node in the Connections Navigator and selecting Import Connections.

If you want to use any user-defined reports or the SQL history from a previous version, see Section 1.5 for information about where these are located. If you want to use any user-defined reports or the SQL history from Release 1.0 with both Releases 1.0 and 1.1, you must save them before using Release 1.1, because Release 1.1 modifies the files to a format that is incompatible with Release 1.0.

SQL Developer preferences (specified by clicking Tools and then Preferences) from a pre-release version of the current release cannot currently be saved and reused; you must re-specify any desired preferences.

**Note:** If you want to uninstall your pre-release version of SQL Developer before installing this release, see Section 1.10, "Uninstalling SQL Developer".

### 1.5 Location of User-Related Information

SQL Developer stores user-related information in several places, with the specific location depending on the operating system and certain environment specifications. User-related information includes user-defined reports, user-defined snippets, SQL Worksheet history, and SQL Developer user preferences.

In most cases, your user-related information is stored outside the SQL Developer installation directory hierarchy, so that it is preserved if you delete that directory and install a new version. The exception to this is on Windows systems, where SQL Developer user preferences are stored under the installation directory. To preserve preferences on Windows systems when upgrading to a more recent version of the same SQL Developer release, but not to upgrade from Release 1.0 to 1.1, use the Check for Updates feature (click Help, then Check for Updates) to upgrade your system.

The user-related information is stored in or under the following location:

- **On Windows systems:** the HOME environment variable location, if defined; otherwise the SQLDEVELOPER_USER_DIR location, if defined; otherwise as indicated in the following table.
- **On Linux and Mac OS X systems:** the SQLDEVELOPER_USER_DIR location, if defined; otherwise as indicated in the following table.

The following table shows the typical default locations (under a directory or in a file) for specific types of resources on different operating systems. (Note the period in the name of any directory or folder named .sqldeveloper.)

<table>
<thead>
<tr>
<th>Resource Type</th>
<th>Windows Systems</th>
<th>Linux or Mac OS X Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>User-defined reports</td>
<td>C:\Documents and Settings&lt;user-name&gt;\sqldeveloper\UserReports.xml</td>
<td>~/.sqldeveloper/UserReports.xml</td>
</tr>
<tr>
<td>User-defined snippets</td>
<td>C:\Documents and Settings&lt;user-name&gt;\sqldeveloper\UserSnippets.xml</td>
<td>~/.sqldeveloper/UserSnippets.xml</td>
</tr>
</tbody>
</table>
To specify a non-default SQLDEVELOPER_USER_DIR location, do either of the following:

- Set the SQLDEVELOPER_USER_DIR environment variable to specify another directory path.
- Edit the `<sqldeveloper_install>\sqldeveloper\sqldeveloper\bin\sqldeveloper.conf` file and substitute the desired directory path for SQLDEVELOPER_USER_DIR in the following line:

  ```
  SetUserHomeVariable SQLDEVELOPER_USER_DIR
  ```

If you want to prevent other users from accessing your user-specific SQL Developer information, you must ensure that the appropriate permissions are set on the directory where that information is stored or on a directory above it in the path hierarchy. For example, on a Windows system you may want to ensure that the `sqldeveloper` folder and the `<user-name>\.sqldeveloper` folder under Documents and Settings are not shareable; and on a Linux or Mac OS X system you may want to ensure that the `~/.sqldeveloper` directory is not world-readable.

### 1.6 Database Certification for SQL Developer (Oracle and Third-Party)

This section describes Oracle and non-Oracle (third-party) databases that are certified for use with SQL Developer.

**Table 1–5** lists the Oracle database certifications.

<table>
<thead>
<tr>
<th>Product</th>
<th>Releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database</td>
<td>Oracle9i (9.2.0.1 and later)</td>
</tr>
<tr>
<td></td>
<td>Oracle10g</td>
</tr>
<tr>
<td>Oracle Database Express Edition</td>
<td>Oracle10g</td>
</tr>
</tbody>
</table>

SQL Developer can be used to view metadata and data of several non-Oracle (third-party) databases. **Table 1–6** lists the third-party database certifications.
For information about database connections in the SQL Developer online help or Oracle Database SQL Developer User’s Guide.

1.7 Advanced Security for JDBC Connection to the Database

You are encouraged to use Oracle Advanced Security to secure a JDBC connection to the database. Both the JDBC OCI and the JDBC Thin drivers support at least some of the Oracle Advanced Security features. If you are using the OCI driver, you can set relevant parameters in the same way that you would in any Oracle client setting. The JDBC Thin driver supports the Oracle Advanced Security features through a set of Java classes included with the JDBC classes in a Java Archive (JAR) file and supports security parameter settings through Java properties objects.

For more information about using Oracle Advanced Security, see Oracle Database JDBC Developer’s Guide and Reference.

1.8 Finding SQL Developer Accessibility Information

For the latest configuration information or for information on addressing accessibility and assistive technology issues, see the Oracle Accessibility FAQ at http://www.oracle.com/accessibility/faq.html.

Also, check the SQL Developer release notes (readme.txt file) to see if there are any currently known issues regarding accessibility.

1.9 Using a Screen Reader and Java Access Bridge with SQL Developer

To make the best use of our accessibility features, Oracle Corporation recommends the following minimum technology stack:

- Windows 2000 or Windows XP
- Java Sun J2SE 1.5.0_05
- Sun Java Access Bridge 1.1 or higher
- JAWS 3.70.87, or 5.10 or higher

Follow these steps to set up a screen reader and Java Access Bridge. If you are using JAWS 3.70.87, see the additional configuration information provided after the procedure.
1. Install the screen reader, if it is not already installed. (See the documentation for your screen reader for more information about installation.)

2. Install SQL Developer.

3. Download Java Access Bridge for Windows version 1.1. The file you will download is accessbridge-1_1.zip. It is available from http://java.sun.com/products/accessbridge. (See the Java Access Bridge documentation available from this Web site for more information about installation and the Java Access Bridge.)

4. After downloading the file, extract (unzip) the contents to a folder, for example, accessbridge_home.

5. Install Java Access Bridge by running Install.exe from the <accessbridge_home>\installer folder.

The installer first checks the SDK version for compatibility, then the Available Java virtual machines dialog displays.

6. Click Search disks. Then select to search only the drive that contains the SQL Developer build and the SDK version in the program files directory (if it exists).

The search process can take a long time on a large disk with many instances of SDK or SQL Developer, or when searching multiple disks. However, unless you complete an exhaustive search of your disk, Access Bridge will not be optimally configured, and will not be correctly installed to all of the Java VMs on your system. After selecting the disk to search, click Search.

7. Confirm that you want to install the Java Access Bridge into each of the Java virtual machines displayed in the dialog, by clicking Install in All.

8. Click OK when you see the Installation Completed message.

9. Confirm that the following files have been installed in the Winnt\System32 directory (or the equivalent Windows 2000 or XP directory), or copy them from <accessbridge_home>\installer\installerFiles because they must be in the system path in order to work with SQL Developer:

    JavaAccessBridge.dll
    JAWTAccessBridge.dll
    WindowsAccessBridge.dll

Note that the system directory is required in the PATH system variable.

10. Confirm that the following files have been installed in the <sqldeveloper_install>\jdk\jre\lib\ext directory, or copy them from <accessbridge_home>\installer\installerFiles:

    access-bridge.jar
    jaccess-1_3.jar
    jaccess-1_4.jar
    JavaAccessBridge.dll
    JAWTAccessBridge.dll
    WindowsAccessBridge.dll

11. Confirm that the file accessibility.properties has been installed in the <sqldeveloper_install>\jdk\jre\lib\ext directory, or copy it from <accessbridge_home>\installer\installerFiles. Confirm that the file accessibility.properties includes the following lines:

    assistive_technologies=com.sun.java.accessibility.AccessBridge
    AWT.EventQueueClass=com.sun.java.accessibility.util.EventQueueMonitor
12. Only if you are using JAWS version 3.7, do the following: modify the file sqldeveloper.conf located in the folder <sqldeveloper_install>\sqldeveloper\bin to uncomment the AddVMOption line, as shown in the following:

```java
# % Prepend patches to the bootclasspath. Currently, rtpatch.jar contains a
# patch that fixes the javax.swing.JTree accessibility problems.
# Uncomment the line below if you need to run SQL Developer under JAWS.
# AddVMOption -Xbootclasspath/p:../../jdk/jre/lib/patches/rtpatch.jar
```

13. Start your screen reader.

These steps assume you are running Windows and using a Windows-based screen reader. A console window that contains error information (if any) will open first and then the main SQL Developer window will appear, once SQL Developer has started. Any messages that appear will not affect the functionality of SQL Developer.

### 1.9.1 Configuring JAWS 3.70 and Access Bridge with SQL Developer

The following combinations of Access Bridge file versions are necessary to achieve optimal functionality with JAWS 3.70, since this version of the screen reader uses older Java technology than is used in SQL Developer. There are two stacks of software technology listed below for those who want to use either version 1.0.3 or 1.0.4 of the Access Bridge. Also required in the system32 directory is a copy of the latest version of the Access Bridge jar file.

#### Access Bridge v. 1.0.3 Configuration for SQL Developer

Place the following files in the `<sqldeveloper_install>\jdk\jre\lib\ext` directory:

- `access-bridge.jar` size: 27295 version: access-bridge-1.0.4
- `JAWTAccessBridge.dll` size: 28672 version: AccessBridge-1.0.3
- `access-1_3.jar` size: 43584 version: AccessBridge-1.0.3
- `access-1_4.jar` size: 46597 version: AccessBridge-1.0.3
- `JavaAccessBridge.dll` size: 139264 version: AccessBridge-1.0.3
- `WindowsAccessBridge.dll` size: 77824 version: AccessBridge-1.0.3

Place the following file in the `<sqldeveloper_install>\jdk\jre\lib` directory:

- `accessibility.properties` size: 353 version: AccessBridge-1.0.3

Place the following files in the Windows system32 directory:

- `JavaAccessBridge.dll` size: 155648 version: AccessBridge_1_1_QA
- `WindowsAccessBridge.dll` size: 77824 version: AccessBridge-1.0.3
- `JAWTAccessBridge.dll` size: 28672 version: AccessBridge-1.0.3

#### Access Bridge v. 1.0.4 Configuration for SQL Developer

Place the following files in the `<sqldeveloper_install>\jdk\jre\lib\ext` directory:

- `access-bridge.jar` size: 27295 version: access-bridge-1.0.4
- `JAWTAccessBridge.dll` size: 32768 version: AccessBridge-1.0.4
1.10 Uninstalling SQL Developer

Before you uninstall SQL Developer, if you plan to install SQL Developer (the same or an updated version) later, you may want to save your existing database connections; and if so, see Section 1.4 before uninstalling.

To uninstall SQL Developer, remove the entire SQL Developer installation directory (that is, the directory named sqldeveloper and all directories and files under it in the hierarchy).

If you also want to remove all user-specific SQL Developer information, you should also delete the directory under which that information is stored (that is, the SQL Developer user information directory). For the location of this directory, see Section 1.5.

If you have created a shortcut for SQL Developer, and if you do not plan to install SQL Developer into the same location again, you should remove that shortcut or modify the shortcut properties to reflect the new location.

1.11 SQL Developer Documentation

SQL Developer provides user documentation in the Oracle Database SQL Developer User’s Guide and in the online help. To see the help, click the Help menu, or click the Help button or press the F1 key in relevant contexts while you are using SQL Developer.

As a convenience, the SQL Developer online help topics are also available in a single PDF file, which you can download separately from the SQL Developer kit.

1.12 Oracle on the Web

Oracle provides a number of resources on the Web. These are some sites you may find helpful:

- SQL Developer home page (OTN):

- SQL Developer discussion forum (OTN):


- PL/SQL page on OTN: http://www.oracle.com/technology/tech/pl_sql/
- Oracle Accessibility site: http://www.oracle.com/accessibility/
- Oracle Corporate site: http://www.oracle.com/