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# **Microsoft<sup>®</sup>**

## SQL Server 2000 Driver for JDBC

**Installation Guide**

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# Preface

This book describes the procedure for installing the SQL Server 2000 Driver for JDBC on a local drive under Windows and UNIX platforms.

The Type 4 SQL Server 2000 Driver for JDBC enables you to connect to Microsoft SQL Server 2000 from these platforms:

## Windows

- Windows XP
- Windows 2000 SP2 and higher service packs

## UNIX

- AIX
- HP-UX
- Sun Solaris
- Linux (Red Hat, Caldera, SuSE)

For the latest information about the driver, see the README file in your software package.

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## Product Requirements

Before you install the SQL Server 2000 Driver for JDBC, verify that you have SQL Server 2000 installed on your server and that your system meets certain requirements, described in [Table 1](#). The SQL Server 2000 Driver for JDBC also supports SQL Server 2000 that has been updated with service packs.

Table 1 lists the product requirements for using the SQL Server 2000 Driver for JDBC.

**Table 1. Product Requirements for SQL Server 2000 Driver for JDBC**

For applications using...	Product Requirements
JDBC 1.22 API	JRE 1.1.8 or higher
JDBC 2.0 Core API	JRE 1.2 or higher
JDBC 2.0 Optional Package	JRE 1.2 or higher
	Also, the following APIs are required and are supplied with SQL Server 2000 Driver for JDBC:
	■ JDBC Optional Package 2.0
	■ JNDI 1.2

## Distributed Transactions on SQL Server

If you want to use JDBC distributed transactions through JTA, you must install JDBC XA Procedures. See the chapter on the SQL Server 2000 Driver for JDBC in the *SQL Server 2000 Driver for JDBC User's Guide and Reference* for details.

## Typographical Conventions

This book uses the following typographical conventions:

Convention	Explanation
<i>italics</i>	Introduces new terms with which you may not be familiar, and is used occasionally for emphasis.

Convention	Explanation
<b>bold</b>	Emphasizes important information. Also indicates button, menu, and icon names on which you can act. For example, click <b>Next</b> .
UPPERCASE	Indicates the name of a file. For operating environments that use case-sensitive file names, the correct capitalization is used in information specific to those environments.  Also indicates keys or key combinations that you can use. For example, press the ENTER key.
monospace	Indicates syntax examples, values that you specify, or results that you receive.
<i>monospaced italics</i>	Indicates names that are placeholders for values that you specify. For example, <i>filename</i> .
forward slash /	Separates menus and their associated commands. For example, Select File / Copy means that you should select Copy from the File menu.  The slash also separates directory levels when specifying locations under UNIX.
vertical rule	Indicates an "OR" separator used to delineate items.
brackets [ ]	Indicates optional items. For example, in the following statement: SELECT [DISTINCT], DISTINCT is an optional keyword.  Also indicates sections of the Windows Registry.
braces { }	Indicates that you must select one item. For example, {yes   no} means that you must specify either yes or no.
ellipsis . . .	Indicates that the immediately preceding item can be repeated any number of times in succession. An ellipsis following a closing bracket indicates that all information in that unit can be repeated.

# About SQL Server 2000 Driver for JDBC Documentation

The SQL Server 2000 Driver for JDBC library consists of the following books:

- *SQL Server 2000 Driver for JDBC Installation Guide* details requirements and procedures for installing the SQL Server 2000 Driver for JDBC.
- *SQL Server 2000 Driver for JDBC User's Guide and Reference* provides both general and driver-specific information about using the SQL Server 2000 Driver for JDBC, as well as about enhancing driver performance.

The SQL Server 2000 Driver for JDBC online documentation is provided in PDF format, which allows you to view it online or print it. You can view the online documentation using Adobe Acrobat Reader, 3.x or greater. Using Acrobat Reader 3.x or greater with Search allows you to take advantage of full-text search across both of the SQL Server 2000 Driver for JDBC online books.

NOTE: If you want to view the online books on a Windows 3.1x machine, you must view the online books with Acrobat Reader 3.x.

You can print the online books to create high-quality, hard-copy books. While viewing an online book in the Acrobat Reader, select **File / Print** to print the entire file (book), the current page, or a range of pages.

## Viewing the Online Books

To help you navigate through the SQL Server 2000 Driver for JDBC online books, an Acrobat file, called **books.pdf**, is provided.



This file lists each online book. We recommend that you open this file first and, from this file, open the book that you want to view.

If you want to keep the books.pdf file open until you choose to close it, go to the Reader menu bar and select **File / Preferences / General**. Clear the check box for the **Open Cross-Document Links in Same Window** option.

#### **To view the online books for Windows:**

From the Start menu, select **Programs / Microsoft SQL Server 2000 Driver for JDBC / Online Books**. This will open the books.pdf file in the Acrobat reader.

#### **To view the online books for UNIX:**

- 1 On the Reader menu bar, select **File / Open**, and choose the path where the books.pdf file resides. For example:

/home/user1/mssqlserver2000jdbc/books/books.pdf

- 2 Click **Open**.

While viewing the online books, you can use *hypertext links*, perform *text searches*, and use *bookmarks*.

## ***Using Hypertext Links***

Cross-reference links within online books allow you to jump to related topics and other books within the documentation set. These links are displayed in blue and allow you to jump to a cross reference with a single click of the mouse. The page numbers in the table of contents and index are also hypertext links.

## ***Performing Text Searches***

With Acrobat Reader with Search, you can perform full-text, boolean searches across all of a product's online books. You type a query and Acrobat Reader displays the matching text.

The search indexes for the online books were created with the word stemming search option. This option finds words that share a stem with a search word. For example, if you search for "programming," the Reader will also find "program" and "programs." The search indexes were not created using the Sounds Like and Case Sensitive options. Therefore, you cannot use these options when searching online books. Finally, numbers are not included in the search index and will not be found by a search.

## ***Using Bookmarks***

All of the online books contain predefined bookmarks that make it easy for you to quickly jump to a specific topic. By default, the bookmarks are displayed to the left of each online book. For more information about using Acrobat Reader, refer to the online help for the product.

## Online Help

HTML-based online help is placed on your system during normal installation of the SQL Server 2000 Driver for JDBC. It is located in the Help directory that is created within the installed driver directory.

To access help from a Windows environment, you must have Internet Explorer 5.x or higher, or Netscape 4.x or higher installed. Open the program group for SQL Server 2000 Driver for JDBC and click the help option.

To access help from a UNIX environment, you must have Netscape 4.x or higher installed. At a command prompt, enter:

```
netscape_exe install_dir/help/wwhelp/js/html/frames.htm
```

where *netscape\_exe* is the name of the Netscape executable and *install\_dir* is the path to the directory in which the SQL Server 2000 Driver for JDBC is installed.



# 1 Installation on Windows

The Microsoft SQL Server 2000 Driver for JDBC includes a Setup program that enables you to install the product with a graphical user interface.

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## Before You Install

Before you start installation, exit or close all applications that are running to prevent file-locking conflicts. In addition, verify that your system meets the specified requirements. Refer to [“Product Requirements” on page 5](#) for a list of these requirements.

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## Installation

To install the SQL Server 2000 Driver for JDBC on your local drive:

- 1 Double-click the Setup program. The Welcome window appears.
- 2 On the Welcome window, click **Next** to continue. The License Agreement window appears.

NOTE: You can exit the Setup program at any time by clicking **Cancel**, or return to the previous window by clicking **Back**.

- 3 On the License Agreement window, select the appropriate option.
  - If you accept the agreement, click **Next**. The Installation Directory window appears.

- If you do not accept the agreement, click **Cancel** and exit the installation.
- 4 On the Setup Type window, select Complete or Custom. After making a selection, click **Next**.
  - If you choose Complete, all features are installed in the default directory (usually, C:\Program Files\SQL Server 2000 Driver for JDBC). Skip to [Step 6](#).
  - If you choose Custom, you can elect not to install the online books, and can select an installation directory. Proceed to [Step 5](#).
- 5 There are two options that you can change on the Custom Setup window. After making your selections, click **Next**.
  - If you do not want to install the online books, click the Online Books icon and select the appropriate option.
  - If you do not want to install to the default directory, click **Change** and choose another installation directory.
- 6 On the Ready to Install window, verify that the information is correct. Click **Back** to make any corrections or click **Next** to install.
- 7 When the installation has finished, the Setup Completed window appears. Click **Finish** to exit the Setup program.

---

## Connecting with the Driver

For a quick check of your newly installed driver, refer to the Quick Start chapter of the *SQL Server 2000 Driver for JDBC User's Guide and Reference*.

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## Uninstalling

You can uninstall the SQL Server 2000 Driver for JDBC through the Add/Remove Programs option in the Control Panel of the Windows Start menu. After opening Add/Remove Programs, select SQL Server 2000 Driver for JDBC and click **Remove**.

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## For More Information

We recommend that you read the README text file that accompanies the product for current information regarding the release.





## 2 Installation on UNIX Platforms

This chapter describes the procedure for installing the Microsoft SQL Server 2000 Driver for JDBC on UNIX platforms.

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### Before You Install

Before you start installation, verify that your system meets the specified requirements. Refer to ["Product Requirements" on page 5](#) for a list of these requirements.

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### Installation

To install the SQL Server 2000 Driver for JDBC on your local drive:

- 1 Copy the mssqlserver.tar file to a temporary directory on your machine.
- 2 At a command prompt, change to the temporary directory and untar the contents of the file. Enter:

```
tar -xvf mssqlserver.tar
```

The contents of the tar file will appear in the directory.

- 3 Run the installation script. Enter:

```
install.ksh
```

If you wish to exit the script at any time, press CTRL C.

- 4 You are asked if you want to view the license agreement. Press ENTER to proceed.
- 5 After viewing the license agreement, press ENTER to accept it or N to exit.
- 6 You are asked to specify an installation directory. Enter the full path to the directory.
- 7 The script displays a message when the installation is complete.

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## Connecting with the Driver

For a quick check of your newly installed driver, refer to the Quick Start chapter of the *SQL Server 2000 Driver for JDBC User's Guide and Reference*.

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## Uninstalling

To uninstall, delete the entire installation directory.

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## For More Information

We recommend that you read the README text file that accompanies the product for current information regarding the release.

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