SYBASE®

Installation Guide

jConnect™ for JDBC™

5.5

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About This Book

This book contains the release notes and installation instructions for jConnect™ for JDBC™ versions 5.2 and 5.5.

Audience

This book is for any person installing or configuring jConnect for JDBC version 5.2 and 5.5. It is also for programmers designing applications for use with jConnect.

How to use this book

The information in this book is organized as follows:

- "About This Book" introduces jConnect for JDBC and points to other sources of product information and technical assistance.
- Chapter 1, "Installation Instructions," provides system requirements and detailed instructions for installing the product.
- Chapter 2, "Using jConnect Documentation," provides information on the documentation set for this product.

Related documents

When you install jConnect, the following documentation is available online:

- The *jConnect for JDBC Programmer's Reference*
- Javadoc information about jConnect packages, classes, and methods in HTML format only

See Chapter 2, "Using jConnect Documentation," for more information.

Other sources of information

Use the Sybase Getting Started CD, the Sybase Technical Library CD, and the Technical Library Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the Technical Library CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader (downloadable at no charge from the Adobe Web site, using a link provided on the CD).

- The Technical Library CD contains product manuals and is included with your software. The DynaText reader (included on the Technical Library CD) allows you to access technical information about your product in an easy-to-use format.

  Refer to the *Technical Library Installation Guide* in your documentation package for instructions on installing and starting the Technical Library.

- The Technical Library Product Manuals Web site is an HTML version of the Technical Library CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Updates, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

  To access the Technical Library Product Manuals Web site, go to Product Manuals at http://www.sybase.com/support/manuals/.

Sybase certifications on the Web

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v **Finding the latest information on product certifications**

1. Point your Web browser to Technical Documents at http://www.sybase.com/support/techdocs/.
2. Select Products from the navigation bar on the left.
3. Select a product name from the product list and click Go.
4. Select the Certification Report filter, specify a time frame, and click Go.
5. Click a Certification Report title to display the report.

v **Creating a personalized view of the Sybase Web site (including support pages)**

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

1. Point your Web browser to Technical Documents at http://www.sybase.com/support/techdocs/.
2. Click MySybase and create a MySybase profile.

Sybase EBFs and software maintenance

v **Finding the latest information on EBFs and software maintenance**

1. Point your Web browser to the Sybase Support Page at http://www.sybase.com/support.

2 Select EBFs/Maintenance. Enter user name and password information, if prompted (for existing Web accounts) or create a new account (a free service).

3 Select a product.

4 Specify a time frame and click Go.

5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

Conventions

The conventions used in this book are shown in Table 1.

Table 1: Conventions

Key	Definition
command	Command, method, and utility names are shown in a bold font. Bold is also used for emphasis.
variable	Variables, or words that stand for values you fill in, are shown in italics. File names are also shown in italics.
user input	Values that you enter are shown in a bold monospaced font.
computer output	Computer output is shown in a regular monospaced font.

If you need help

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

CHAPTER 1

Installation Instructions

This chapter contains instructions for installing jConnect on Windows, UNIX, and Linux platforms. If you are using another platform, substitute commands that are appropriate for your platform.

This chapter is divided into the following sections:

Name	Page
Reviewing system requirements	1
Installing jConnect for JDBC	4
Upgrading jConnect	15

Reviewing system requirements

This section lists system requirements for Windows, UNIX, and Linux.

Windows requirements

Table 1-1 lists the system requirements for installing jConnect for JDBC on Windows.

Table 1-1: System requirements for Windows NT/95/98/2K/2K3/XP

Hardware	PC with 486 or greater Intel processor.
Operating system	Windows NT 3.5.1 or later, or Windows 95/98/2K/2K3/XP (supporting Java VM version 1.2 or later).
Memory	16MB.
Free disk space	10MB for default options.
Java Developer's Kit	Sun JDK 1.2.x or later, or Microsoft jView.

Database	One of the following: • Adaptive Server® Enterprise (SQL Server® System 10, version 10.0.2, through Adaptive Server Enterprise 12.x) • Sybase SQL Anywhere 5.5.23 or later, running Open Server Gateway™ dbos50 • Sybase SQL Anywhere 6.0 through 8.x **Note** The following features in jConnect versions 5.2 and 5.5 require Adaptive Server Enterprise 12.x or later: • Support for unichar datatypes • Support for date and time datatypes • Support for wide-column data • Support for outer join syntax • Support for Sybase Failover in high availability systems ("HA Failover") • Implementation of a DynamicClassLoader (also available in Adaptive Server Anywhere 6.x and later) • Support for distributed transaction management: Java Transaction API (JTA) and Java Transaction Services (JTS) For more information on these features, see the *jConnect for JDBC Programmer's Reference*.
Web browser	Any browser that supports JDK 1.2.x or later.
Other Sybase products (optional)	Adaptive Server IQ, OmniConnect™, DirectConnect™.
IDE (optional)	Any Java application development environment, such as JBuilder or Visual J++.
Web server (optional)	For jConnect's TDS-tunnelling servlet, any Web server that supports the HTTPS protocol and javax.servlet interfaces.

Table 1-2 lists the system requirements for installing jConnect for JDBC on UNIX or Linux.

Table 1-2: System requirements for UNIX and Linux

Hardware	Any UNIX or Linux platform that supports Java VM 1.2.x and later.
Operating system	Sun Solaris, HP UX, IBM AIX, HP Tru64 UNIX, SGI IRIX, any vendor's Linux installation, and so on.
Memory	16MB.
Free disk space	10MB for default options.
Java Developer's Kit	Sun's JDK 1.2.x or later.
Database	One of the following: • Adaptive Server Enterprise, from SQL Server System 10, version 10.0.2, through Adaptive Server Enterprise 12.x • Sybase SQL Anywhere 5.5.23 or later running Open Server Gateway™ dbos50 • Sybase SQL Anywhere 6.0 through 8.x **Note** The following features in jConnect versions 5.2 and 5.5 require Adaptive Server Enterprise 12.x or later: • Support for unichar datatypes • Support for date and time datatypes • Support for wide-column data • Support for outer join syntax • Support for Sybase Failover in high availability systems ("HA Failover") • Implementation of a DynamicClassLoader (also available in Adaptive Server Anywhere 6.x and later) • Support for distributed transaction management: Java Transaction API (JTA) and Java Transaction Services (JTS) For more information on these features, see the *jConnect for JDBC Programmer's Reference*.
Web browser	Any browser that supports JDK 1.2.x or later.
Other Sybase products (optional)	Adaptive Server IQ, OmniConnect, DirectConnect.

Web server (optional)	For jConnect's TDS-tunnelling servlet, any Web server that supports the HTTPS protocol and javax.servlet interfaces.

Installing jConnect for JDBC

To install jConnect for JDBC, complete the following tasks:

1 Install the Java Development Kit

2 Install jConnect products

3 Set environment variables

4 Install stored procedures

5 Review the installation contents

6 Test the jConnect installation

Install the Java Development Kit

Before installing jConnect, you must download and install the Java Development Kit (JDK).

v **Installing the Java Development Kit**

1 Download the current JDK from Sun's Java Software Web site at the following URL:
http://java.sun.com/products/index.html

2 Install the JDK using the installation instructions provided.

When you install jConnect 5.x, you receive JDBC 2.0 compatible classes. Developers should use JDK version 1.2 and later to develop JDBC 2.0 applications with jConnect 5.x.

3 After installing the JDK, define the JAVA_HOME environment variable to point to the JDK installation directory. See your operating system documentation for instructions.

Install jConnect products

This section explains how to download jConnect products from the Web or from a CD.

Note If you cannot use the Web to install jConnect, contact Sybase Technical Support to request a CD. Once you receive the CD, see “lnstalling jConnect from a CD” on page 7 for installation instructions.

If you install jConnect from the Web and then receive it as part of an Adaptive Server Enterprise or other Sybase product release, use the installation instructions provided with the Sybase product to install jConnect, and verify that you want to overwrite the directory where you initially installed jConnect.

---

v **Installing jConnect from the Web**

1 Go to the jConnect download Web page at the following URL:

http://www.sybase.com/products/middleware/jconnectforjdbc

2 Click Downloads in the Information box on the left side of the window.

3 When you see the registration page, read the jConnect License Agreement, then complete and submit the provided registration form. You may see a message that your registration has been successful.

4 When you go to the download page, click the name of the product(s) you want to download:

- *jconnect52.zip* — jConnect 5.2 driver, English documentation, and sample code
- *jconnect55.zip* — jConnect 5.5 driver, English documentation, and sample code
- *docsEN.zip* — jConnect documentation (English)
- *docsINT.zip* — jConnect documentation in other languages (French, German, and Japanese)

5 Download the *zip* files using your browser.

6 Extract the *zip* files into a directory on your machine.

To extract *zip* files, you need a *zip*-file extraction utility. Most UNIX and Linux platforms provide an unzip utility as part of their standard tools. Windows users can use WinZip.

7 After installing jConnect:

- Set the JDBC_HOME and CLASSPATH environment variables. See “Setting Environment Variables” on page 10.
- Review your installation contents. See “Reviewing Installation Contents” on page 15.

v **Installing jConnect from a CD**

Note Use these instructions *only* if you requested a jConnect CD because you cannot download jConnect from the Web. Do not use these instructions to install the version of jConnect included with Adaptive Server Enterprise or other Sybase products. Instead, use the installation guide provided with the product.

---

1 Log in to the machine on which you want to install jConnect. Use a login with Administrator privileges or the ID you use for all installations.

2 Place the Sybase jConnect CD in the CD-ROM drive.

3 Access the CD from your system:

For UNIX or Linux:

- Mount the CD by typing the command for your platform.

For Windows:

- Use My Computer or the Windows Explorer to access the CD-ROM drive.

4 When you can view the contents of the CD, click the name of the product(s) you want to install:

- *jconnect52.zip* — jConnect 5.2 driver, English documentation, and sample code
- *jconnect55.zip* — jConnect 5.5 driver, English documentation, and sample code
- *docsEN.zip* — jConnect documentation (English)
- *docsINT.zip* — jConnect documentation in other languages (French, German, and Japanese)

5 Extract the *zip* files into a directory on your machine.

To extract *zip* files, you need a *zip*-file extraction utility. Most UNIX and Linux platforms provide an unzip utility as part of their standard tools. Windows users can use WinZip.

6 After installing jConnect:

- Set the JDBC_HOME and CLASSPATH environment variables. See "Setting Environment Variables" on page 10.
- Review your installation contents. See "Reviewing Installation Contents" on page 15.

Set environment variables

To use the jConnect classes you installed, you must set the JDBC_HOME and CLASSPATH environment variables.

Setting JDBC_HOME

JDBC_HOME represents the directory in which you install jConnect.

Note The *zip* file is not aware of your directory structure and installs everything below a directory with the specific jConnect driver's name.

For example, if you unzipped *jconnect55.zip* in *C:\Sybase* on Windows, you would set JDBC_HOME to:

```
C:\Sybase\jConnect-5_5
```

On UNIX or Linux, if you installed the *zip* file into */usr/local/Sybase*, you would set JDBC_HOME to:

```
usr/local/Sybase/jConnect-5_5
```

Setting the CLASSPATH

Note If you are using JRE or jView instead of JDK, see the documentation for those products for instructions on setting the CLASSPATH variable.

CLASSPATH is the location of the jConnect runtime classes and/or *jar* files, and the Java home library for JDK 1.2.x or later. This section describes what you need in your CLASSPATH depending on which versions of JDK and jConnect you are using.

Note On Windows NT, Windows 95, and older Windows systems, make sure that file and directory names are no longer than eight characters plus a three-character suffix ("8.3 format"), or that you use abbreviated ("mangled") names as displayed in a DOS directory listing (for example, *progra~1* instead of *program files*).

To use jConnect 5.x with JDK versions 1.2 and later, set the CLASSPATH:

- On UNIX or Linux:

  $JDBC_HOME/classes/jconn2.jar

- On Windows:

  %JDBC_HOME%\classes\jconn2.jar

JDK versions 1.2 and later do not require you to set the location of the Java runtime classes in your CLASSPATH.

To run the samples or the TDS-tunnelling servlet, set the CLASSPATH environment variable:

- On UNIX or Linux:

  $JDBC_HOME/classes/jconn2.jar:$JDBC_HOME/classes

- On Windows:

  %JDBC_HOME%\classes\jconn2.jar;%JDBC_HOME%\classes

Note Sybase does not recommend running JDK 1.1.x with jConnect 5.x.

In addition, the CLASSPATH should include the location of any application classes you have defined.

As explained in the next section, if you use Netscape, some restrictions may apply to the way you set your CLASSPATH environment variable.

Restrictions when using Netscape

The Java VM security manager will not allow a version of jConnect installed in your local file system to create a connection to a server, even if the server is your local system. This can create a problem if you use Netscape to run an applet that uses jConnect.

When Netscape needs to load jConnect to create a connection to a server, it looks for a CLASSPATH defined in its environment to find the jConnect classes. If it finds a CLASSPATH that you have defined to point to your local jConnect installation, it loads jConnect directly from the local file system, rather than from the server, and tries to create a connection. This generates a security error and the connection fails.

Therefore, if you are using Netscape to run jConnect applets, do not set the CLASSPATH to the local jConnect directory.

Install stored procedures

For jConnect to function properly, you must install stored procedures and tables on the Adaptive Server Enterprise or Adaptive Server Anywhere database to which your application will be connecting. jConnect provides the following scripts to install the required stored procedures and tables:

- *sql_server.sql* installs stored procedures on Adaptive Server Enterprise versions 11.9.2 and earlier.
- *sql_server12.sql* installs stored procedures on Adaptive Server Enterprise version 12.0.
- *sql_server12.5.sql* installs stored procedures on Adaptive Server Enterprise versions 12.5.x.
- *sql_asa.sql* installs stored procedures on SQL Anywhere and Adaptive Server Anywhere databases.

To run the scripts:

1 Make sure that your JAVA_HOME, JDBC_HOME, and CLASSPATH environment variables are set.

2 To connect to a SQL Anywhere database earlier than version 6.0, start an Open Server gateway.

3 Use the IsqlApp sample application according to the instructions in the following sections, based on the target database and your platform.

On an Adaptive Server Enterprise database

To install stored procedures for metadata in an Adaptive Server Enterprise database using Windows, go to a DOS prompt and enter the following command on one line from the *%JDBC_HOME%\classes* directory:

Adaptive Server Enterprise version 12.5.x:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I %JDBC_HOME%\sp\sql_server12.5.sql -c go
```

Adaptive Server Enterprise version 12.0:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I %JDBC_HOME%\sp\sql_server12.sql -c go
```

Adaptive Server Enterprise version 11.9.2 and earlier:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I %JDBC_HOME%\sp\sql_server.sql -c go
```

On UNIX or Linux, enter the following command from your *$JDBC_HOME/classes* directory:

Adaptive Server Enterprise version 12.5.x:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I $JDBC_HOME/sp/sql_server12.5.sql -c go
```

Adaptive Server Enterprise version 12.0:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I $JDBC_HOME/sp/sql_server12.sql -c go
```

Adaptive Server Enterprise version 11.9.2 and earlier:

```
java IsqlApp -U sa -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I $JDBC_HOME/sp/sql_server.sql -c go
```

On a SQL Anywhere or Adaptive Server Anywhere database

To install stored procedures for metadata in a SQL Anywhere or Adaptive Server Anywhere database using Windows, go to a DOS prompt and enter the following command on one line from the *%JDBC_HOME%\classes* directory:

```
java IsqlApp -U dba -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I %JDBC_HOME%\sp\sql_asa.sql -c go
```

On a UNIX or Linux system, enter the following command on one line from your *$JDBC_HOME/classes* directory:

```
java IsqlApp -U dba -P password -S jdbc:sybase:
       Tds:[hostname]:[port] -I $JDBC_HOME/sp/sql_asa.sql -c go
```

Review the installation contents

After completing the jConnect installation, review the contents listed in this section.

Packages

For jConnect version 5.x, the following packages are found inside *jar* files: *jconn2.jar* for the release build, *jconn2d.jar* for the debug build.

- com.sybase.jdbc2.jdbc
- com.sybase.jdbc2.tds
- com.sybase.jdbc2.timedio
- com.sybase.jdbc2.utils
- com.sybase.jdbcx

The jConnect driver, com.sybase.jdbc2.jdbc.SybDriver, is in the com.sybase.jdbc2.jdbc package.

Directories and files

Table 1-3 lists the directories and files in *jconnect55.zip*.

Table 1-3: jconnect55.zip installation

Name	Type	Description
jconnect-5_5	Directory	Contains all of the jConnect version 5.5 files and subdirectories.
classes	Subdirectory	The following jConnect 5.5 components are installed in the *classes* subdirectory: • *jconn2.jar* file that contains jConnect 5.5 classes. • *sample2* subdirectory with jConnect 5.5 class files for sample applets and applications, including the Isql applet. • *gateway2* subdirectory for compiled TDS-tunnelling servlet
devclasses	Subdirectory	*jconn2d.jar* file that contains the same jConnect 5.5 components as *jconn2.jar*, but debug mode is turned on.
docs	Subdirectory	Contains the *en* subdirectory, which contains the English javadoc documentation, and the *en/progref* subdirectory, which contains the *jConnect for JDBC Programmer's Reference* in HTML and PDF format.
gateway2	Subdirectory	Contains source code for the TDS-tunnelling servlet.
sample2	Subdirectory	Contains source code for sample Java applications.

Name	Type	Description
sp	Subdirectory	Contains isql scripts that install stored procedures for function escapes and DatabaseMetaData methods on a database server. The scripts are: • sql_asa.sql (Adaptive Server Anywhere) • sql_server12.5.sql (Adaptive Server Enterprise version 12.5.x) • sql_server12.sql (Adaptive Server Enterprise version 12.0) • sql_server.sql (pre-version 12.0 Adaptive Server Enterprise)
tools	Subdirectory	Contains a perl script (*decode-tli*) that UNIX or Linux users can apply to parse an *interfaces* file into a readable format.
netimpct.gif	Graphic file	jConnect graphic.
index.html	HTML file	Contains links to jConnect documentation and to jConnect samples.

Table 1-4 lists the directories and files in *jconnect52.zip*.

Table 1-4: jconnect52.zip installation

Name	Type	Description
jconnect-5_2	Directory	Contains all of the jConnect version 5.2 files and subdirectories.
classes	Subdirectory	The following jConnect 5.2 components are installed in the *classes* subdirectory: • *jconn2.jar* file that contains jConnect 5.2 classes. • *sample2* subdirectory with jConnect 5.2 class files for sample applets and applications, including the Isql applet. • *gateway2* subdirectory for compiled TDS-tunnelling servlet
devclasses	Subdirectory	*jconn2d.jar* file that contains the same jConnect 5.2 components as *jconn2.jar*, but debug mode is turned on.
docs	Subdirectory	Contains the *en* subdirectory, which contains the English javadoc documentation, and the *en/progref* subdirectory, which contains the *jConnect for JDBC Programmer's Reference* in HTML and PDF format.
gateway2	Subdirectory	Contains source code for the TDS-tunnelling servlet.
sample2	Subdirectory	Contains source code for sample Java applications.
sp	Subdirectory	Contains isql scripts that install stored procedures for function escapes and DatabaseMetaData methods on a database server. The scripts are: • sql_asa.sql (Adaptive Server Anywhere) • sql_server12.5.sql (Adaptive Server Enterprise version 12.5.x) • sql_server12.sql (Adaptive Server Enterprise version 12.0) • sql_server.sql (pre-version 12.0 Adaptive Server Enterprise)

Name	Type	Description
tools	Subdirectory	Contains a perl script (*decode-tli*) that UNIX or Linux users can apply to parse an *interfaces* file into a readable format.
netimpct.gif	Graphic file	jConnect graphic.
index.html	HTML file	Contains links to jConnect documentation and to jConnect samples.

JDBC 2.0 samples

You can find JDBC 2.0 code samples in the *sample2* subdirectory under the jConnect installation directory. For more information, see "Running jConnect Sample Programs and Code," in Appendix B of the *jConnect for JDBC Programmer's Reference*.

Test the jConnect installation

After jConnect is installed, test the installation by running the Version program.

Note The Version program connects to a demonstration database that Sybase has made available on the Internet. You must have Internet access to run the Version program successfully, or explicitly run it with [-U *username*] [-P *password*] [-S *servername*] commands to point it to your database.

From the DOS prompt for Windows, or at a UNIX or Linux prompt, change to the JDBC_HOME directory. Make sure your CLASSPATH variable is set for running the sample programs—see "Setting the CLASSPATH" on page 7 for details—and enter the following text:

```
java sample2.SybSample Version
```

This should bring up a SybSample window. At the top of the window, the Running Sybase Sample text box should display the source code for Version as the program runs. The middle text box— Sample Output—should display version information. For example:

```
Using JDBC driver version 5.5
jConnect (TM) for JDBC(TM)/5.5...
```

- If the previous message appears in the Sample Output text box, you have successfully installed jConnect.

- If you get the previous message but the source code for Version does not appear in the Running Sybase Sample text box, and the Status text box at the bottom of the window shows:

  ```
  java.io.FileNotFoundException: Version.java
  ```

  you successfully installed jConnect but probably did not enter the command to run the Version program from the *sample2* directory under *JDBC_HOME*.

- If the SybSample window does not appear and you get the following error message,

  ```
  Can't find class sample2.SybSample
  ```

  check your CLASSPATH to be sure that it is set correctly.

- Using Windows, if the SybSample window does not come up, and you get one of the following error messages,

  ```
  "Name specified is not recognized as an internal or
  external command" (Windows NT)
  ```

  ```
  "Bad command or file name" (Windows 95)
  ```

  make sure that your path includes the *bin* subdirectory of your JDK home directory.

  When you have verified that your installation was successful, click Close to exit the SybSample window.

Verifying the jConnect version

To check the exact build version of your jConnect installation, execute the following command from your *$JDBC_HOME/classes* directory on UNIX or Linux or your *%JDBC_HOME%\classes* directory on Windows:

```
java -jar jconn2.jar
```

This command prints a version string like the following:

```
jConnect (TM) for JDBC(TM)/5.5(Build
25200/P/EBF11473/JDK12/Tue Sep 16 15:18:30 2003
```

Here the version number is 5.5. The 5-digit number following the letters "EBF" indicates the exact version of jConnect. This number increases as subsequent EBFs are released. Sybase recommends that you check the Sybase download Web site periodically for updated versions of jConnect and download the latest version.

Upgrading jConnect

If you are migrating from one version of jConnect to another, Table 1-5 shows which upgrade paths require you to change and recompile the source code.

Table 1-5: Upgrade paths that require recompiling

From jConnect version	To jConnect version					
	4.0	*4.1*	*4.2*	*5.0*	*5.2*	*5.5*
3.0	No changes required	No changes required	No changes required	Changes required *	Changes required *	Changes required *
4.0	N/A	No changes required	No changes required	Changes required *	Changes required *	Changes required *
4.1	N/A	N/A	No changes required	Changes required *	Changes required *	Changes required *
4.2	N/A	N/A	N/A	Changes required *	Changes required *	Changes required *
5.0	N/A	N/A	N/A	N/A	No changes required	No changes required
5.2	N/A	N/A	N/A	N/A	No changes required	No changes required

* See Chapter 5, "Migrating jConnect Applications," in the *jConnect for JDBC Programmer's Reference* for instructions.

Note Sybase strongly recommends that you use jConnect 5.5 for JDBC applications. Of all the Sybase JDBC drivers, jConnect 5.5 provides the most features and supports the most Sybase database capabilities.

CHAPTER 2

Using jConnect Documentation

Your jConnect installation includes the *jConnect for JDBC Programmer's Reference* and javadoc information (see below) about jConnect packages, classes, and methods.

This chapter covers the following topics:

Name	Page
Programmer's reference	17
Javadoc documentation of jConnect extensions to JDBC	18
jConnect documentation access using index.html files	18
jisql and Ribo documentation	19

Programmer's reference

The *jConnect for JDBC Programmer's Reference* provides information and examples specific to the jConnect driver, as well as solutions and workarounds for problems you may encounter when using jConnect.

When you install jConnect, a *docs* directory is created under the jConnect installation directory. The *docs* directory contains an *en/progref* subdirectory containing the *jConnect for JDBC Programmer's Reference* in HTML and PDF formats. To obtain this reference in languages other than English, download the *docsINT.zip* file from the jConnect download Web site. See "Install jConnect products" on page 5 for instructions.

Javadoc documentation of jConnect extensions to JDBC

The Java Development Kit (JDK) from Java Software contains a javadoc script for extracting comments from source-code files and putting them in corresponding HTML files. This script is used to extract documentation of jConnect packages, classes, and methods from jConnect source files. When you install jConnect, the javadoc information is installed in the following directories:

- For UNIX or Linux:

  $JDBC_HOME/docs/en/javadocs

- For Windows:

  %JDBC_HOME%\docs\en\javadocs

The javadoc information is available only in HTML format.

jConnect documentation access using *index.html* files

Using a Web browser, you can access both the *jConnect for JDBC Programmer's Reference* and the jConnect javadoc information from an *index.html* file:

- *$JDBC_HOME/index.html* (UNIX or Linux) and *%JDBC_HOME%\index.html* (Windows) contain links for accessing the jConnect documentation and for running sample JDBC applets.
- *$JDBC_HOME/docs/index.html* (UNIX or Linux) and *%JDBC_HOME%\docs\index.html* (Windows) contain links to the jConnect documentation.

jisql and Ribo documentation

Ribo and jisql are JDBC development tools. jisql provides a database GUI from which users can connect to a database, issue SQL commands, and view output graphically. Ribo enables JDBC developers to capture and view communication between jConnect and a database. Ribo can also decode Tabular Data Stream (TDS) messages, which Sybase databases use to communicate with client applications, helping developers to diagnose problems.

For more information on Ribo and jisql, refer to the documentation provided with these applications, which can be downloaded from the Sybase Web site.

When you download jisql, a *doc* subdirectory contains this documentation:

- An *.html* version of the *jisql User's Guide*. Open *jisql-1.html* first.

When you download Ribo, a *doc* subdirectory contains this documentation:

- An *.html* version of the *Ribo User's Guide*. Open *ribo-1.html* first.

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