

Beginning with Java 7, Java DB is automatically installed on your system when you install the JDK. When you install the JDK, take note of the location on your system where it is installed. If you accept the default location for the JDK, it will be installed in a folder with a path such as this:

```
C:\Program Files\Java\jdk1.8.0_25
```

The name of the last folder in the path might be different on your system, because its name indicates the version of the JDK that you are using. Nevertheless, the path will be similar to the one shown here.

If you look inside the folder where the JDK is installed, you will see another folder named `db`. Inside the `db` folder you will see another folder named `lib`, and inside the `lib` folder you will see a file named `derby.jar`. The `derby.jar` file contains the Java DB database engine and its associated JDBC embedded driver. Take a moment to verify that you can locate the `derby.jar` file, and make a note of its path. For example, if you are using the JDK 8, update 25, the path of the `derby.jar` file will be something like:

```
C:\Program Files\Java\jdk1.8.0_25\db\lib\derby.jar
```

Once you have verified the path of the `derby.jar` file, you need to set the `CLASSPATH` environment variable on your system.

Setting the `CLASSPATH` Environment Variable

To use Java DB with this book, you will need to set your system's `CLASSPATH` environment variable to include the location of the `derby.jar` file. The `CLASSPATH` environment variable contains a list of class libraries that are needed by the Java Virtual Machine and other Java applications.

The following instructions describe the procedure for setting the `CLASSPATH` variable on Windows 8 and Windows 7.

Windows 8

In the Right bottom corner of the screen, click on the **Search** icon and type **Control Panel**. Click on **Control Panel**, then click **System**, then click **Advanced system settings**. Click on the **Advanced** tab, then click **Environment Variables**. Look in the System Variables list to see if the `CLASSPATH` variable exists.

If the `CLASSPATH` variable already exists, perform the following:

Select the `CLASSPATH` variable and click the **Edit** button. Add a semicolon to the end of the existing contents and then add the path of the `derby.jar` file to the end of the list. Click the **OK** buttons until all the dialog boxes are closed and exit the control panel.

If the `CLASSPATH` variable does not exist, perform the following:

Click the **New...** button that appears below the list of system variables.

In the Variable name box, type `CLASSPATH`.

In the Variable value box, type a period, followed by a semicolon, followed by the path of the `derby.jar` file. For example, the value will be something similar to the following (depending on the version of the JDK that you are using):

```
.;C:\Program Files\Java\jdk1.8.0_25\db\lib\derby.jar
```

Click the **OK** buttons until all the dialog boxes are closed and exit the control panel.

Windows 7

Click the **Start** button and then right-click **Computer**. On the pop-up menu, select **Properties**. In the window that appears next, click **Advanced system settings**. This displays the System Properties window. Click the **Environment Variables...** button. Look in the System Variables list to see if the `CLASSPATH` variable exists.

If the `CLASSPATH` variable already exists, perform the following:

Select the `CLASSPATH` variable and click the **Edit** button. Add a semicolon to the end of the existing contents and then add the path of the `derby.jar` file to the end of the list. Click the **OK** buttons until all the dialog boxes are closed and exit the control panel.

If the `CLASSPATH` variable does not exist, perform the following:

Click the **New...** button that appears below the list of system variables.

In the Variable name box, type `CLASSPATH`.

In the Variable value box, type a period, followed by a semicolon, followed by the path of the `derby.jar` file. For example, the value will be something similar to the following (depending on the version of the JDK that you are using):

```
.;C:\Program Files\Java\jdk1.8.0_25\db\lib\derby.jar
```

Click the **OK** buttons until all the dialog boxes are closed and exit the control panel.