

JDBC - SELECT DATABASE EXAMPLE

<http://www.tutorialspoint.com/jdbc/jdbc-select-database.htm>

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This chapter provides an example on how to select a Database using JDBC application. Before executing the following example, make sure you have the following in place –

- To execute the following example you need to replace the *username* and *password* with your actual user name and password.
- Your MySQL or whatever database you are using, is up and running.

Required Steps

The following steps are required to create a new Database using JDBC application –

- **Import the packages:** Requires that you include the packages containing the JDBC classes needed for the database programming. Most often, using *import java.sql.** will suffice.
- **Register the JDBC driver:** Requires that you initialize a driver so you can open a communications channel with the database.
- **Open a connection:** Requires using the *DriverManager.getConnection* method to create a Connection object, which represents a physical connection with a **selected** database.

Selection of database is made while you prepare database URL. Following example would make connection with **STUDENTS** database.

- **Clean up the environment:** Requires explicitly closing all the database resources versus relying on the JVM's garbage collection.

Sample Code

Copy and past the following example in JDBCExample.java, compile and run as follows –

```
//STEP 1. Import required packages
import java.sql.*;

public class JDBCExample {
    // JDBC driver name and database URL
    static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
    static final String DB_URL = "jdbc:mysql://localhost/STUDENTS";

    // Database credentials
    static final String USER = "username";
    static final String PASS = "password";

    public static void main(String[] args) {
        Connection conn = null;
        try{
            //STEP 2: Register JDBC driver
            Class.forName("com.mysql.jdbc.Driver");

            //STEP 3: Open a connection
            System.out.println("Connecting to a selected database...");
            conn = DriverManager.getConnection(DB_URL, USER, PASS);
            System.out.println("Connected database successfully...");
        }catch(SQLException se){
            //Handle errors for JDBC
            se.printStackTrace();
        }catch(Exception e){
            //Handle errors for Class.forName
            e.printStackTrace();
        }finally{
            //finally block used to close resources
            try{
```

```
        if(conn!=null)
            conn.close();
    }catch(SQLException se){
        se.printStackTrace();
    }//end finally try
}//end try
System.out.println("Goodbye!");
}//end main
}//end JDBCExample
```

Now, let us compile the above example as follows –

```
C:\>javac JDBCExample.java
C:\>
```

When you run **JDBCExample**, it produces the following result –

```
C:\>java JDBCExample
Connecting to a selected database...
Connected database successfully...
Goodbye!
C:\>
```

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