

JDBC - CREATE DATABASE EXAMPLE

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

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

- You should have admin privilege to create a database in the given schema. 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 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 the database server.

To create a new database, you need not give any database name while preparing database URL as mentioned in the below example.

- **Execute a query:** Requires using an object of type Statement for building and submitting an SQL statement to the database.
- **Clean up the environment .** Requires explicitly closing all 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/";

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

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

            //STEP 3: Open a connection
            System.out.println("Connecting to database...");
            conn = DriverManager.getConnection(DB_URL, USER, PASS);

            //STEP 4: Execute a query
            System.out.println("Creating database...");
            stmt = conn.createStatement();
```

