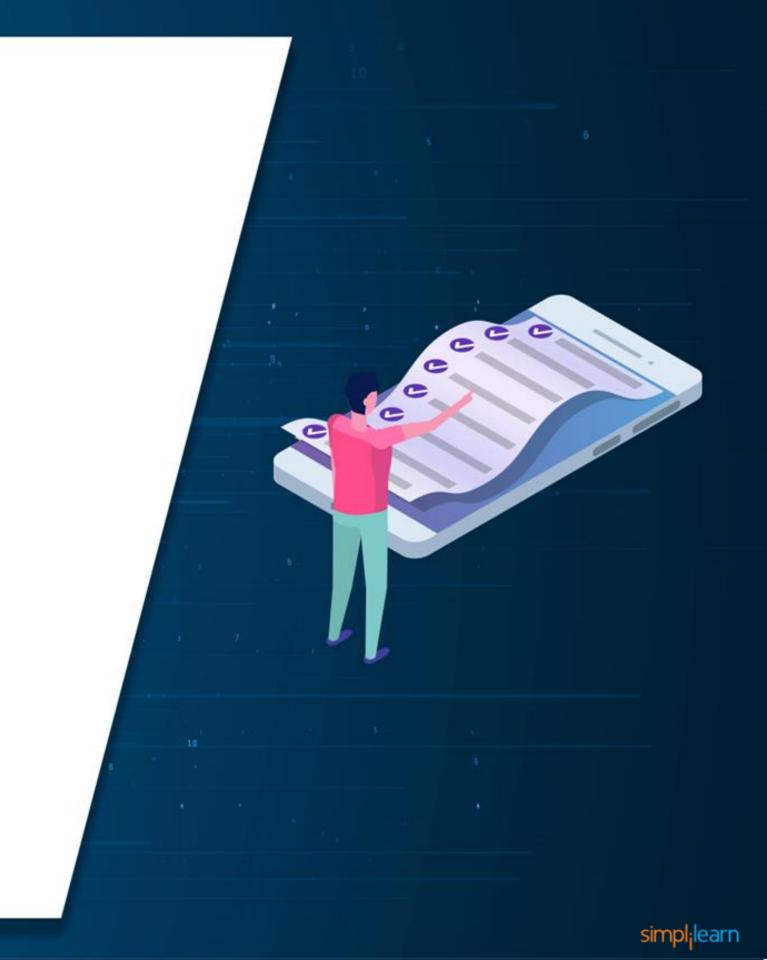


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Learning Objectives

By the end of this lesson, you will be able to:

- Create a database
- Select a database
- Drop a database



Create a Database ©Simplilearn. All rights reserved.

The steps to create a database are:

Import JDBC packages

Register the JDBC driver

Open a connection

Execute the query

Close the database resources



Import JDBC packages

The JDBC classes required for database programming should be included in the packages.

```
import java.sql.*;
// JDBC driver name
static final String JDBC_DriverName =
"com.mysql.jdbc.Driver";
// URL String
static final String database_URL =
"jdbc:mysql://localhost";
// Database credentials
static final String userName = "NameOfTheUser";
static final String password = "password";
```

Register JDBC driver

Users can either use a Java system property or have the Java program to register the driver.

```
Class.forName("com.mysql.jdbc.Driver");
```

Open a connection

Create a connection object, which represents a physical connection with the database server, using the DriverManager.getConnection() method.

```
Connection connect =
DriverManager.getConnection(database_URL,
userName, password);
```

Execute the query

For creating and submitting an SQL statement to the database, users must use a Statement object.

```
Statement stmt = connect.createStatement();
String sqlString = "CREATE DATABASE SAMPLE";
stmt.executeUpdate(sqlString);
```

Close database resources

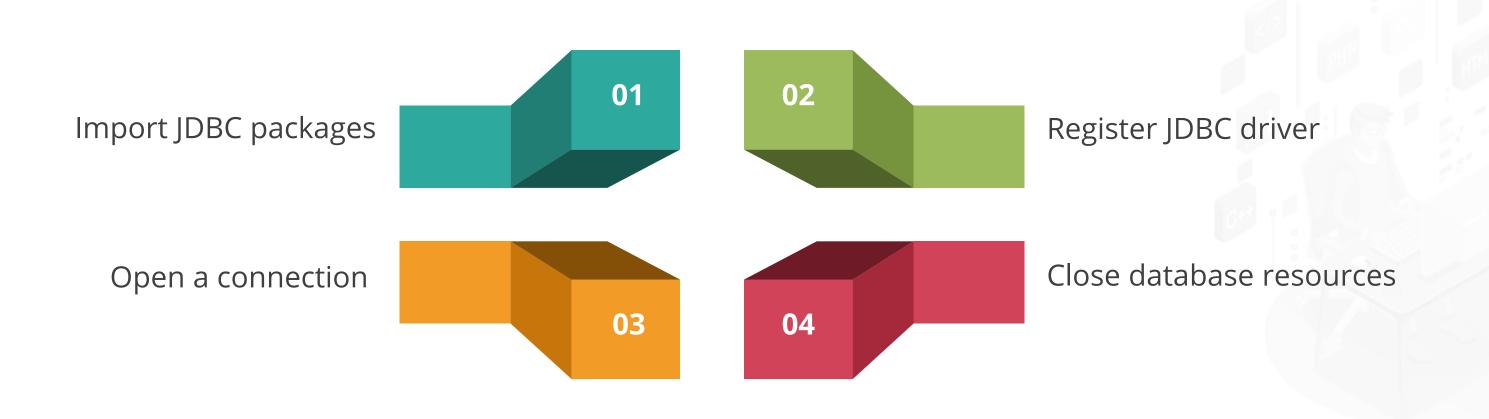
The resources are automatically closed to clean up the environment.

```
stmt.close(); connect.close();
```

Select a Database ©Simplilearn. All rights reserved.

Select a Database

The steps to select a database are:



Select a Database

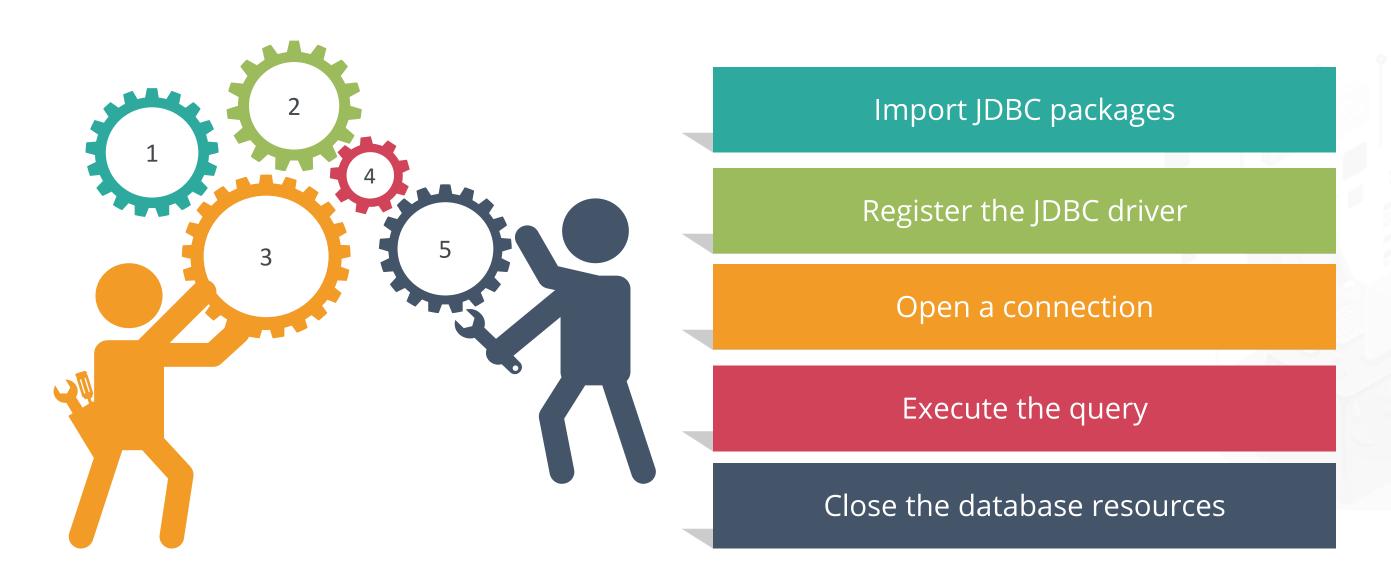
The name of the database to be selected must be mentioned in the database URL.

```
// URL String
  static final String database_URL
  ="jdbc:mysql://localhost/databaseName";
```

Drop a Database ©Simplilearn. All rights reserved.

Drop a Database

The steps to drop a database are:





Drop a Database

The name of the database to be dropped must be mentioned in the database URL.



Key Takeaways

- The name of a database to be selected and dropped must be mentioned in the database URL.
- The steps to create a database are: Import JDBC packages,
 Register a JDBC driver, Open a connection, Execute the query, and
 Close the database resources.
- For creating and submitting a SQL statement to the database, users must use a Statement object.
- Users can either use a Java system property or have the Java program to register the driver.

