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[git-https://github.com/wasimkhanktr](https://github.com/wasimkhanktr)

Create a java project and add class.

```
package JDBC;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

//import java.sql.Connection;

public class JdbcExample
{
    public static void main(String[] args) throws ClassNotFoundException, SQLException {
        //step 1 register the driver
        Class.forName("com.mysql.cj.jdbc.Driver");

        //step 2 Establish the connection

        Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb","root","root");

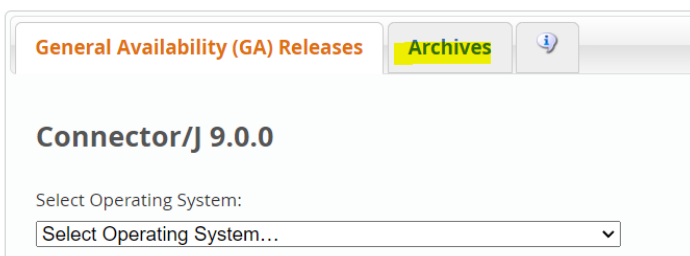
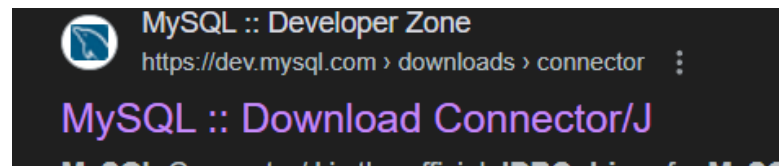
        System.out.println("Connection created");
    }
}
```

Run JavaApplication

```
<terminated> JdbcExample [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2
Exception in thread "main" java.lang.ClassNotFoundException: com.mysql.cj.jdbc.Driver
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinClassLoader.java:641)
    at java.base/jdk.internal.loader.ClassLoaders$AppClassLoader.loadClass(ClassLoaders.java:188)
    at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:525)
    at java.base/java.lang.Class.forName0(Native Method)
    at java.base/java.lang.Class.forName(Class.java:413)
    at java.base/java.lang.Class.forName(Class.java:404)
    at MyProject/JDBC/JdbcExample.main(JdbcExample.java:15)
```

Copy com.mysql.cj.jdbc.Driver

Goto google and pest com.mysql.cj.jdbc.Driver download



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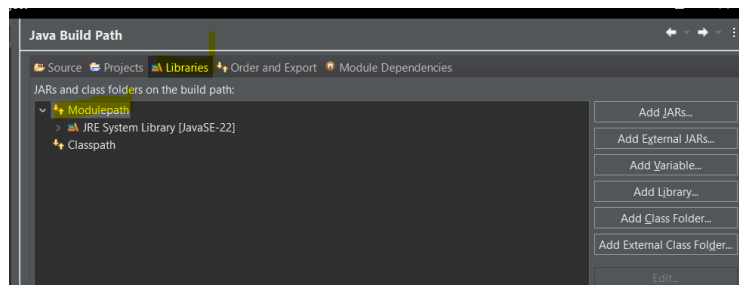
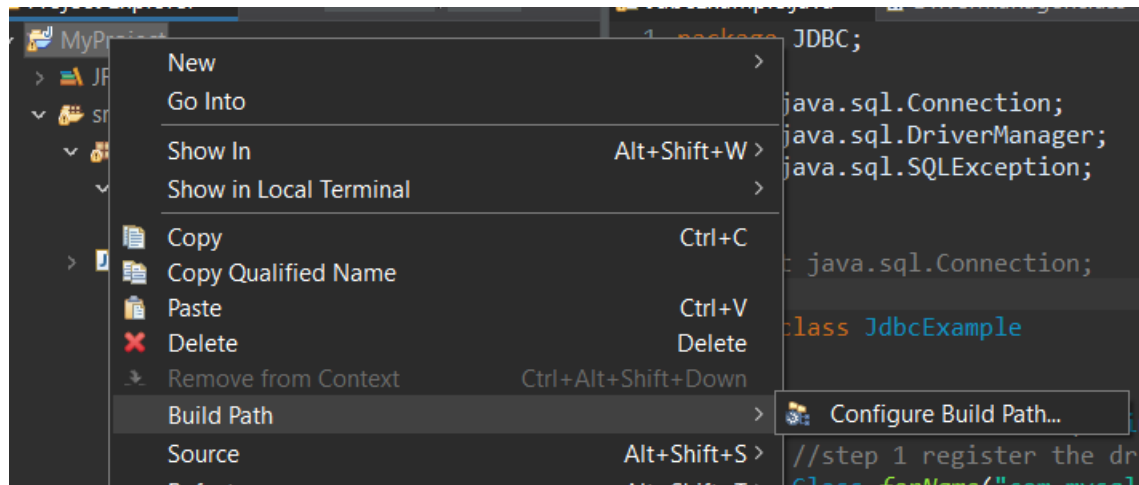
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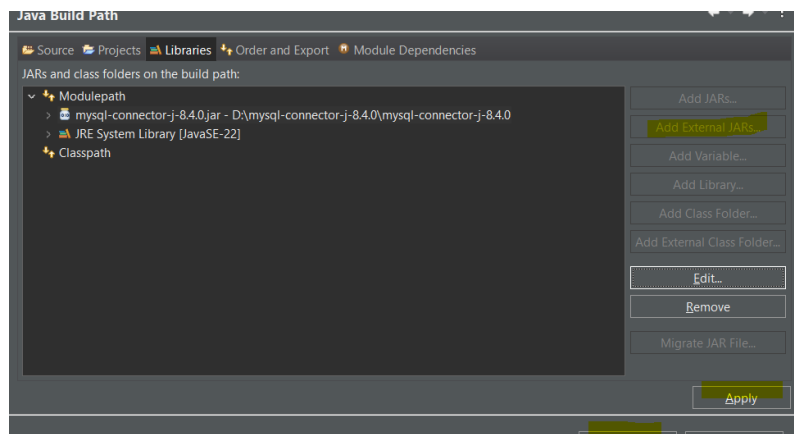
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Product Version:	8.4.0	
Operating System:	Platform Independent	
Platform Independent (Architecture Independent), Compressed TAR Archive (mysql-connector-j-8.4.0.tar.gz)	Mar 12, 2024	4.1M MD5: 33a74d1a803b504a1141a327b6f6ff7c3 Signature
Platform Independent (Architecture Independent), ZIP Archive (mysql-connector-j-8.4.0.zip)	Mar 12, 2024	4.9M MD5: 5d426b639f7b4c314492edff07c615dc Signature

Right click



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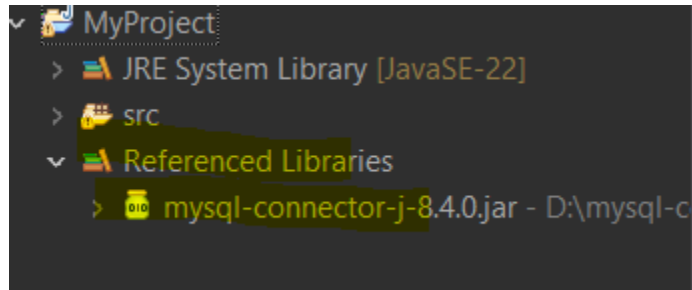


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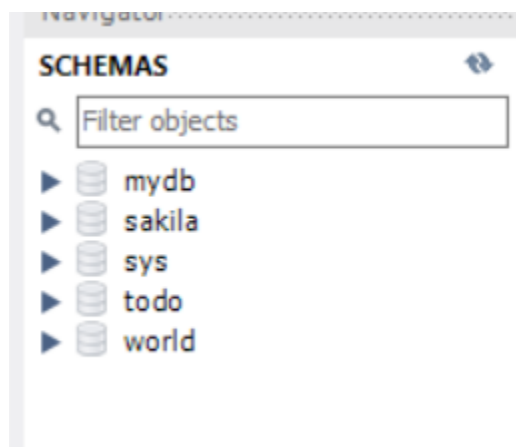


```
1 package JDBC;
2
3 import java.sql.Connection;
4
5
6
7
8 //import java.sql.Connection;
9
10 public class JdbcConnection
11 {
12
13     public static void main(String[] args) throws ClassNotFoundException, SQLException {
14         //step 1 register the driver
15         Class.forName("com.mysql.cj.jdbc.Driver");
16
17         //step 2 Establish the connection
18
19         Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb","root","root");
20
21         System.out.println("Connection created");
22     }
23 }
```

Problems Javadoc Declaration Console X

<terminated> JdbcConnection [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-162

Connection created



total db present

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```
package JDBC;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class CreateDB {

    public static void main(String[] args) {
        Connection con = null;
        Statement stmt = null;
        try {
            // Establishing the connection
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/", "root", "root");

            // Creating a Statement object
            stmt = con.createStatement();

            // SQL query to create a database
            String sql = "CREATE DATABASE IF NOT EXISTS MyDatabase";
            stmt.executeUpdate(sql);

            System.out.println("Database created successfully...");
        } catch (SQLException e) {
            e.printStackTrace();
        } finally {
            // Closing resources
            try {
                if (stmt != null) stmt.close();
                if (con != null) con.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}
```

Problems Javadoc Declaration Console ×

<terminated> CreateDB [Java Application] C:\Users\wasim

Database created successfully...

Filter objects

mydatabase

mydb

sakila

sys

todo

world

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```
00 public static void main(String[] args) throws SQLException
1 {
2     // Establishing the connection
3     Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/MyDatabase", "root", "root");
4
5     // Creating a Statement object
6     Statement stmt = con.createStatement();
7
8     // SQL query to create a table
9     String sql = "CREATE TABLE Students ("
10         + "id INT PRIMARY KEY AUTO_INCREMENT, "
11         + "name VARCHAR(50), "
12         + "age INT, "
13         + "marks INT"
14         + ")";
15
16     // Executing the query
17     stmt.executeUpdate(sql);
18
19     System.out.println("Table created successfully...");
20
21     con.close();
22 }
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Problems Javadoc Declaration Console ×

<terminated> CreateTable [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.22.0.2.v20240802-1626\jre\bin\javaw.exe created successfully...

Creating table

```
7
8 public class InsertData {
9
10 public static void main(String[] args) throws SQLException {
11
12     // Establishing the connection
13     Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/MyDatabase", "root", "root");
14
15     // Creating a Statement object
16     Statement stmt = con.createStatement();
17
18     // SQL query to insert data into the Students table
19     String sql = "INSERT INTO Students (name, age, marks) "
20         + "VALUES ('John Doe', 20, 85),"
21         + "('Jane Smith', 22, 90),"
22         + "('Mike Johnson', 21, 78)";
23
24     // Executing the query
25     int rowsInserted = stmt.executeUpdate(sql);
26
27     System.out.println(rowsInserted + " rows inserted successfully.");
28
29     con.close();
30 }
31
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Problems Javadoc Declaration Console ×

<terminated> InsertData [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.22.0.2.v20240802-1626\jre\bin\javaw.exe 3 rows inserted successfully.

Insert data in a table

```

11● public static void main(String[] args) throws SQLException {
12     Connection con = null;
13     Statement stmt = null;
14     ResultSet rs = null;
15
16     // Establishing the connection
17     con = DriverManager.getConnection("jdbc:mysql://localhost:3306/MyDatabase", "root", "root");
18
19     // Creating a Statement object
20     stmt = con.createStatement();
21
22     // SQL query to retrieve data from the Students table
23     String sql = "SELECT * FROM Students";
24
25     // Executing the query and getting the result set
26     rs = stmt.executeQuery(sql);
27
28     // Displaying the data
29     System.out.println("ID | Name | Age | Marks");
30     System.out.println("-----");
31
32     while (rs.next()) {
33         int id = rs.getInt("id");
34         String name = rs.getString("name");
35         int age = rs.getInt("age");
36         int marks = rs.getInt("marks");
37
38         System.out.println(id + " | " + name + " | " + age + " | " + marks);
39     }
40
41 }
42 }
43 }

```

Problems Javadoc Declaration Console ×

<terminated> DisplayData [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-162

ID	Name	Age	Marks
1	John Doe	20	85
2	Jane Smith	22	90
3	Mike Johnson	21	78

Show the result

```

9 public class UpdateTheData {
10
11● public static void main(String[] args) throws SQLException {
12     Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/MyDatabase","root","root");
13
14     Statement stm=con.createStatement();
15
16     String sql = "UPDATE Students SET marks = 95 WHERE id = 1";
17
18     int update=stm.executeUpdate(sql);
19
20
21     con.close();

```

Problems Javadoc Declaration Console ×

<terminated> UpdateTheData [Java Application] C:\Users\wasim\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-162

1	John Doe	20	95
2	Jane Smith	22	90
3	Mike Johnson	21	78

Update data

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```
10 public static void main(String[] args) throws SQLException {
11
12     Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/MyDatabase","root","root");
13
14     Statement stmt=con.createStatement();
15
16     // SQL query to delete a row from the Students table
17     String sql = "DELETE FROM Students WHERE id = 9";
18
19     // Executing the query
20     int rowsAffected = stmt.executeUpdate(sql);
21
22     if (rowsAffected > 0) {
23         System.out.println("Row deleted successfully.");
24     } else {
25         System.out.println("No row found with the given id.");
26     }
27
28     con.close();
29 }
```

Problems Javadoc Declaration Console ×

<terminated> DeleteData [Java Application] C:\Users\wasim\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-1626\jre\

Row deleted successfully.

Delete data from table