# **SMARTBRIDGE EXTERNSHIP**

# Modern Application Development Java Spring Boot

**Assignment 3** 

**JDBC CONNECTION** 

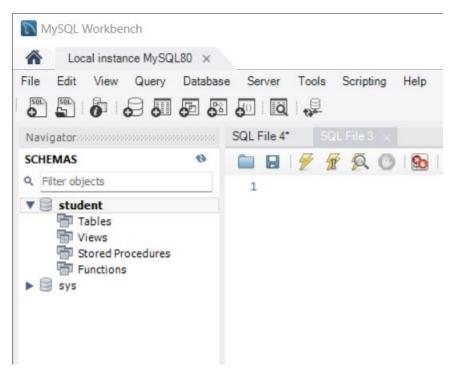
**NAME:** ARAVINDKRISHNA R

**REG. No.:** 20BCE0074

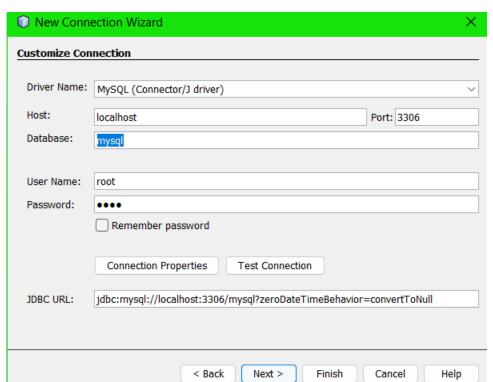
**DATE:** 04-06-2023

#### Implement java assignment for java JDBC using java

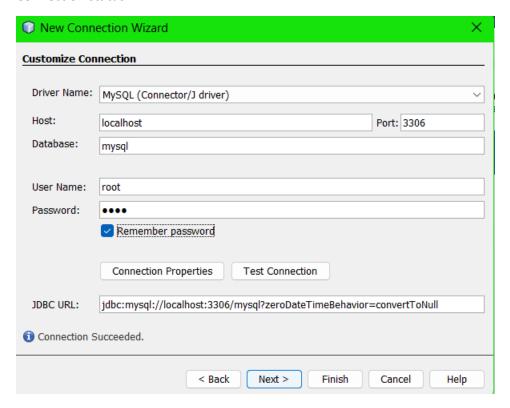
# Creating database in sql



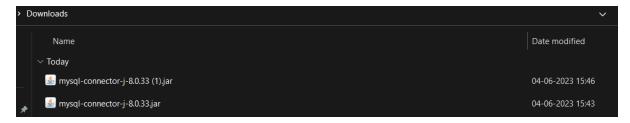
# Creating jdbc connection,



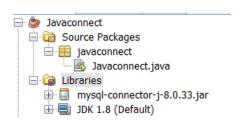
#### **Connection status**



# Downloading the jar file,



# Adding the jar file in library,



#### Creating a table,

#### Code

```
package javaconnect;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
public class Javaconnect {
  public static void main(String[] args) {
    try{
    Class.forName("com.mysql.jdbc.Driver");
      String url = "jdbc:mysql://localhost:3306/student";
      String username = "root";
      String password = "root";
      Connection connection = DriverManager.getConnection(url, username, password);
      Statement statement = connection.createStatement();
      String createTableQuery = "CREATE TABLE example_table (" +
           "id INT PRIMARY KEY," +
           "name VARCHAR(50)," +
           "age INT" +
           ")";
      statement.executeUpdate(createTableQuery);
      System.out.println("Table created successfully.");
      statement.close();
      connection.close();
    } catch (Exception e) {
      e.printStackTrace();
    }
  }
}
```

#### Ouput

```
run:
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is generally unnecessary.
Table created successfully.
BUILD SUCCESSFUL (total time: 1 second)
```

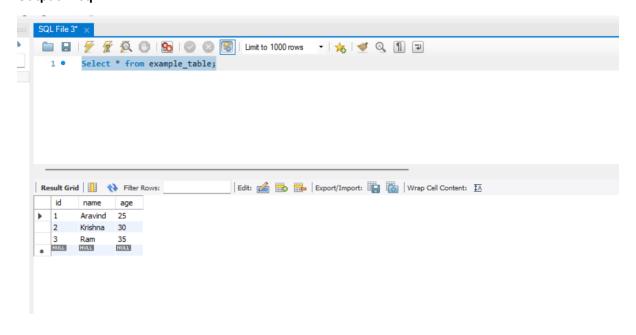
#### **Code to insert**

```
package javaconnect;
  public static void main(String[] args) {
    try{
    Class.forName("com.mysql.jdbc.Driver");
      String url = "jdbc:mysql://localhost:3306/student";
      String username = "root";
      String password = "root";
      Connection connection = DriverManager.getConnection(url, username, password);
      Statement statement = connection.createStatement();
        String insertQuery = "INSERT INTO example_table (id, name, age) VALUES " +
           "(1, 'Aravind', 25)," +
           "(2, 'Krishna', 30)," +
           "(3, 'Ram', 35)";
      int rowsAffected = statement.executeUpdate(insertQuery);
      System.out.println(rowsAffected + "row(s) inserted successfully.");
      // Step 5: Close the statement and connection
      statement.close();
      connection.close();
    } catch (Exception e) {
```

#### Output

```
run:
   Loading class `com.mysql.jdbc.Driver'. This is deprecated. The
   the driver class is generally unnecessary.
3 row(s) inserted successfully.
BUILD SUCCESSFUL (total time: 1 second)
```

# **Output** in sql



#### Code to print resuls from select statement,

```
package javaconnect;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class Javaconnect {
  public static void main(String[] args) {
    try{
    Class.forName("com.mysql.jdbc.Driver");
      String url = "jdbc:mysql://localhost:3306/student";
      String username = "root";
      String password = "root";
      Connection connection = DriverManager.getConnection(url, username, password);
       Statement statement = connection.createStatement();
      String selectQuery = "SELECT * FROM example_table";
      ResultSet resultSet = statement.executeQuery(selectQuery);
      while (resultSet.next()) {
        int id = resultSet.getInt("id");
        String name = resultSet.getString("name");
        int age = resultSet.getInt("age");
        System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age);
      }
      statement.close();
      connection.close();
    } catch (Exception e) {
```

```
e.printStackTrace();
}
}
```

#### Output

```
Loading class `com.mysql.jdbc.Driver'. This i gistered via the SPI and manual loading of th ID: 1, Name: Aravind, Age: 25
ID: 2, Name: Krishna, Age: 30
ID: 3, Name: Ram, Age: 35
BUILD SUCCESSFUL (total time: 1 second)
```

#### **Code for inserting using prepared statements**

```
package javaconnect;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
public class Javaconnect {
    public static void main(String[] args) {
        try{
            Class.forName("com.mysql.jdbc.Driver");

            String url = "jdbc:mysql://localhost:3306/student";
            String username = "root";

            String password = "root";

            Connection connection = DriverManager.getConnection(url, username, password);
```

```
String insertQuery = "INSERT INTO example_table (id, name, age) VALUES (?, ?, ?)";
    PreparedStatement preparedStatement = connection.prepareStatement(insertQuery);
    preparedStatement.setInt(1, 4);
    preparedStatement.setString(2, "Alice Johnson");
    preparedStatement.setInt(3, 28);
    int rowsAffected = preparedStatement.executeUpdate();
    System.out.println(rowsAffected + "row(s) inserted successfully.");
    preparedStatement.close();
    connection.close();
  } catch (Exception e) {
    e.printStackTrace();
  }
}
   String insertQuery = "INSERT INTO example_table (id, name, age) VALUES (?, ?, ?)";
   PreparedStatement preparedStatement = connection.prepareStatement(insertQuery);
  preparedStatement.setInt(1, 4);
  preparedStatement.setString(2, "Alice Johnson");
  preparedStatement.setInt(3, 28);
  int rowsAffected = preparedStatement.executeUpdate();
   System.out.println(rowsAffected + " row(s) inserted successfully.");
  preparedStatement.close();
   connection.close();
```

#### Output

```
run:
[Loading class `com.mysql.jdbc.Driver'. This is
gistered via the SPI and manual loading of the
1 row(s) inserted successfully.
BUILD SUCCESSFUL (total time: 1 second)
```

#### **Output** in sql

