MODERN APPLICATION DEVELOPMENT

JAVA SPRING BOOT

WEEKLY ASSIGNMET:3
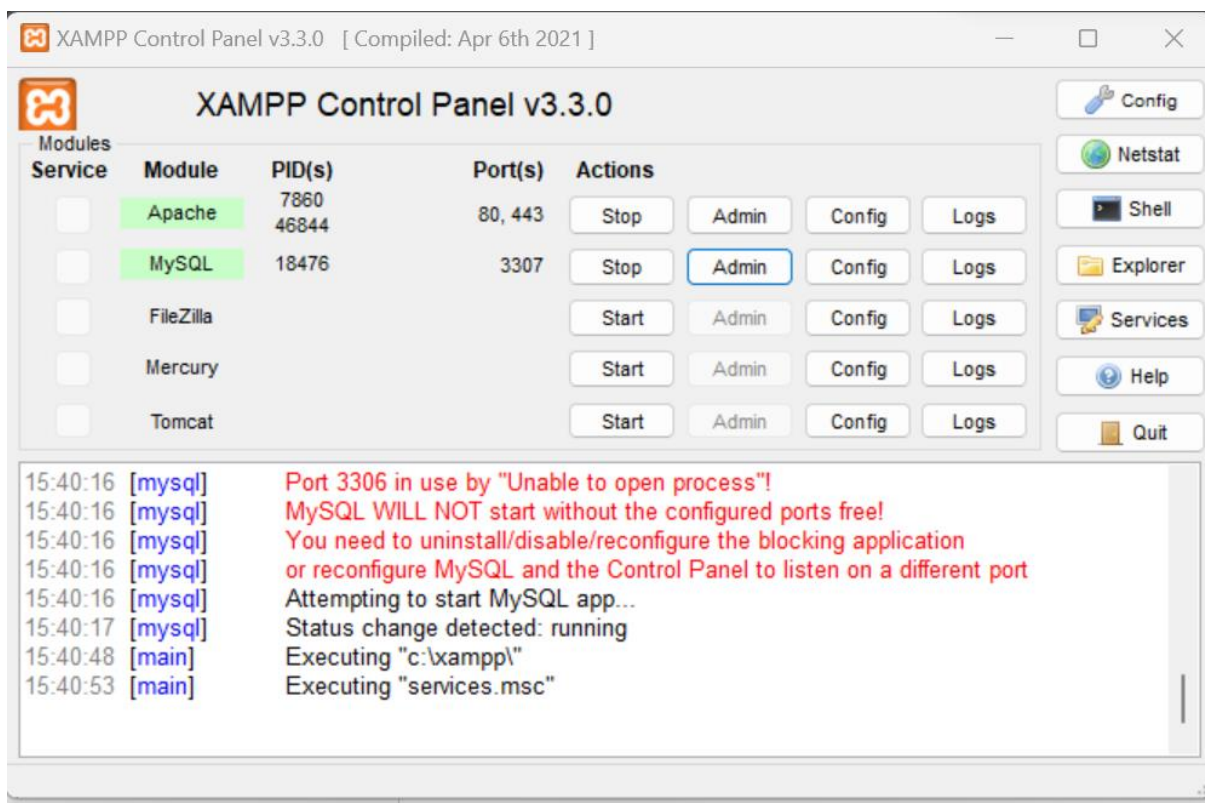
NAME: ASHWIN SIVASANKAR V

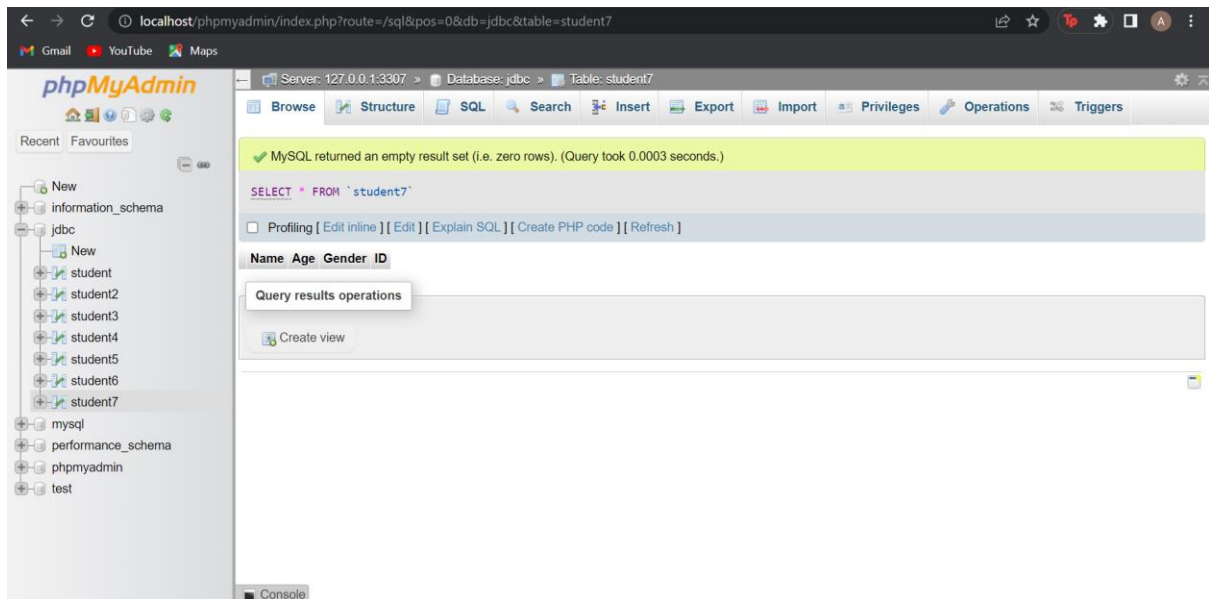**REGNO: 20BCE1804**

QUESTION:

IMPLEMENT JDBC CONNECTIVITY USING JAVA

1. <u>Start XAMPP</u>

<u>Create a table in phpmyAdmin</u>

Insert:

Code:

```java
package kites;
import java.util.*;
import java.sql.*;
class Connect
{
public static void main(String[] args) {
try {
Class.forName("com.mysql.cj.jdbc.Driver");
Connection conn =
DriverManager.getConnection("jdbc:mysql://127.0.0.1:3307/jdbc", "root",
"");
String sql = "INSERT INTO student7 (name, age, gender, id) VALUES (?, ?, ?,
?)";
PreparedStatement statement = conn.prepareStatement(sql);
statement.setString(1, "John");
statement.setInt(2, 20);
statement.setString(3, "Male");
statement.setString(4, "12345");
int rowsInserted = statement.executeUpdate();
if (rowsInserted > 0) {
```

```
System.out.println("A new student was inserted successfully.");

} else {

System.out.println("Failed to insert the student.");

}

statement.close();

conn.close();

} catch (ClassNotFoundException e) {

System.out.println("MySQL JDBC driver not found.");

e.printStackTrace();

} catch (SQLException e) {

System.out.println("Failed to connect to the database.");

e.printStackTrace();

}

}

}
```

Output

Output:

Name	Age	Gender	ID
John	20	Male	12345
Jacob	20	Male	12346

2. Update

Code:

```java
package kites;

import java.util.*;

import java.sql.*;

class Connect

{

    public static void main(String[] args) {

    try {


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

    Connection conn =
DriverManager.getConnection("jdbc:mysql://127.0.0.1:3307/jdbc", "root",
"");

    String sql = "UPDATE student7 SET age = ? WHERE id = ?";

    PreparedStatement statement = conn.prepareStatement(sql);

    statement.setInt(1, 21);

    statement.setString(2, "12345");

    int rowsUpdated = statement.executeUpdate();

    if (rowsUpdated > 0) {

    System.out.println("Age was updated successfully.");

    } else {

    System.out.println("Failed to update the age.");

    }

    statement.close();

    conn.close();

    } catch (ClassNotFoundException e) {

    System.out.println("MySQL JDBC driver not found.");

    e.printStackTrace();
```

```
        } catch (SQLException e) {

        System.out.println("Failed to connect to the database.");

        e.printStackTrace();

        }

        }

}
```
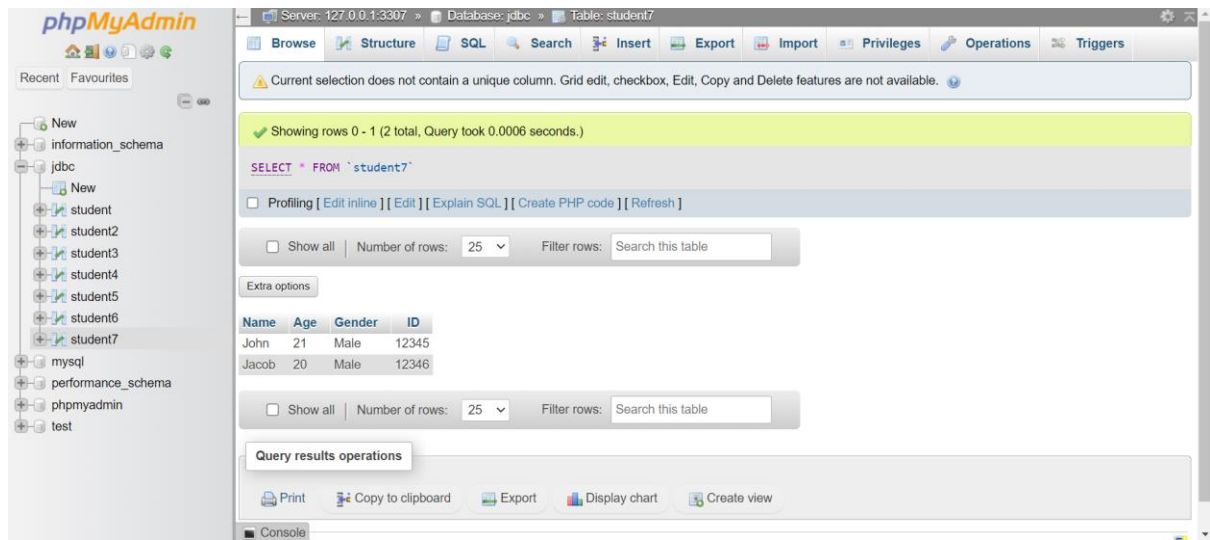

Output :

Name	Age	Gender	ID
John	21	Male	12345
Jacob	20	Male	12346

3. Delete a row in a table

Codes:

```
package kites;

import java.util.*;

import java.sql.*;

class Connect
```

```java
{
      public static void main(String[] args) {
try {


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

Connection conn =
DriverManager.getConnection("jdbc:mysql://127.0.0.1:3307/jdbc", "root",
"");

String sql = "DELETE FROM student7 WHERE id = ?";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, "12345");

int rowsDeleted = statement.executeUpdate();

if (rowsDeleted > 0) {

System.out.println("Row was deleted successfully.");

} else {

System.out.println("Failed to delete the row.");

}

statement.close();

conn.close();

} catch (ClassNotFoundException e) {

System.out.println("MySQL JDBC driver not found.");

e.printStackTrace();

} catch (SQLException e) {

System.out.println("Failed to connect to the database.");

e.printStackTrace();

}

}

}
```

Output:

Name	Age	Gender	ID
Jacob	20	Male	12346