Week-3-Assignment
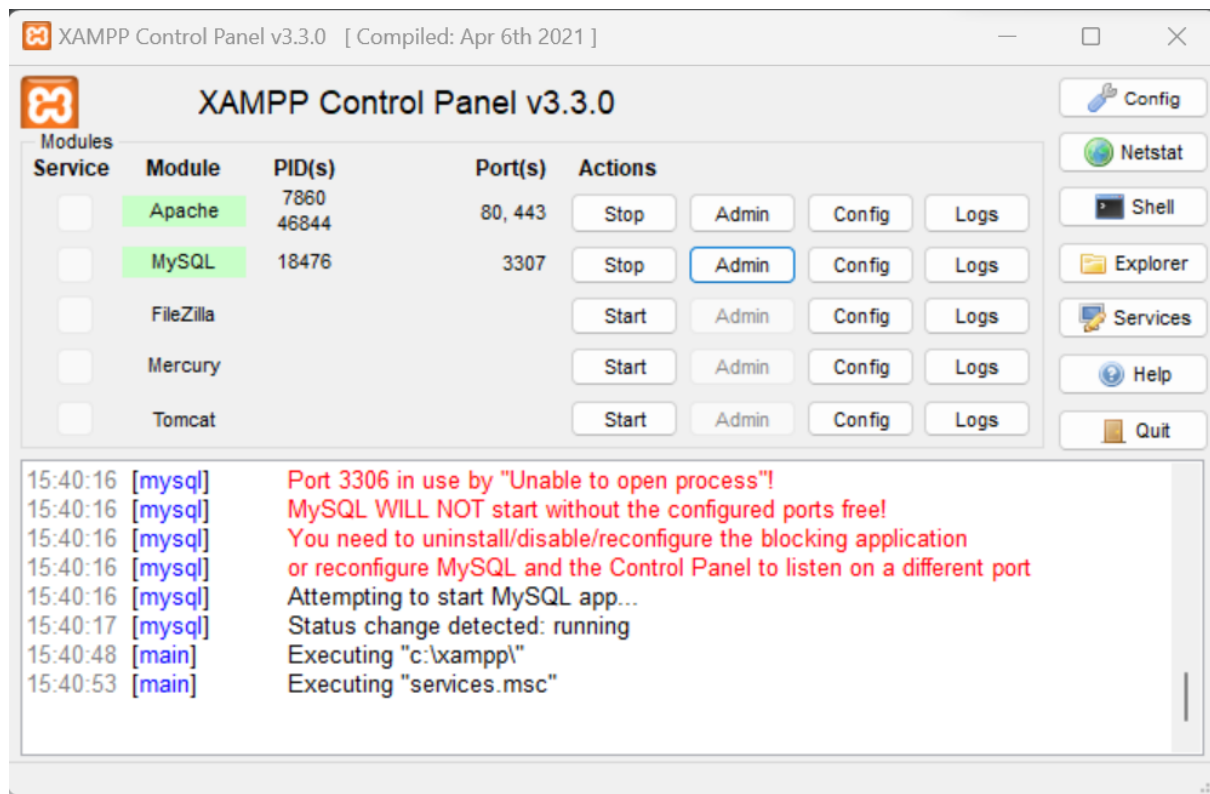
Modern Application Development(Java Spring Boot)

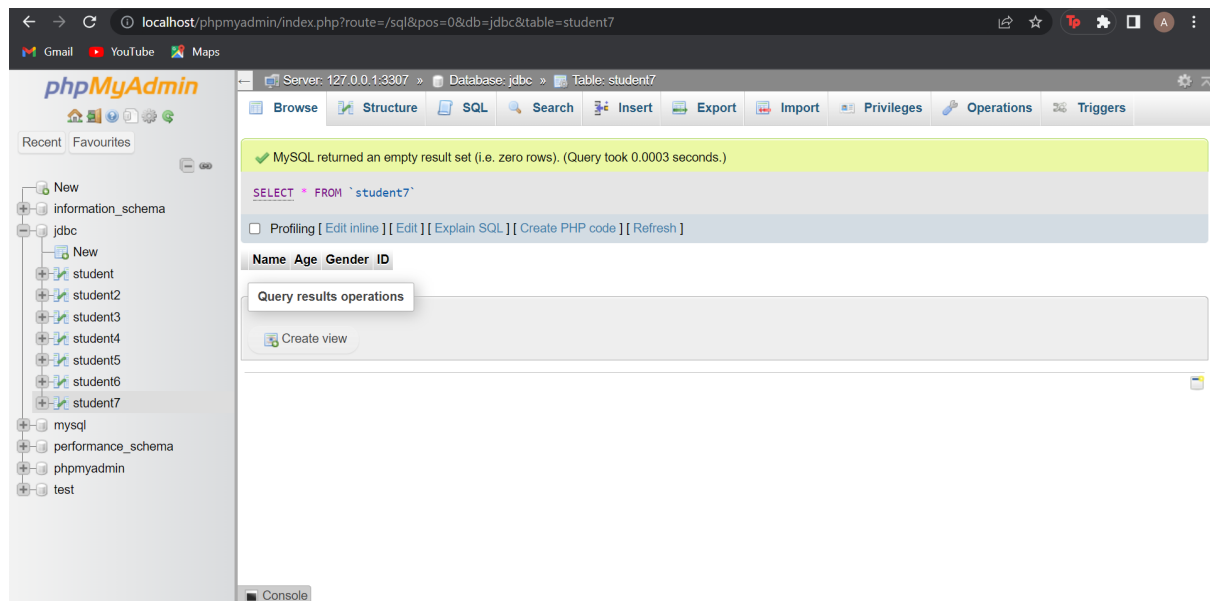**Adhav M**   **20BCE1743**

1. **Implement JDBC connectivity using Java**

Step 1 : Start XAMPP
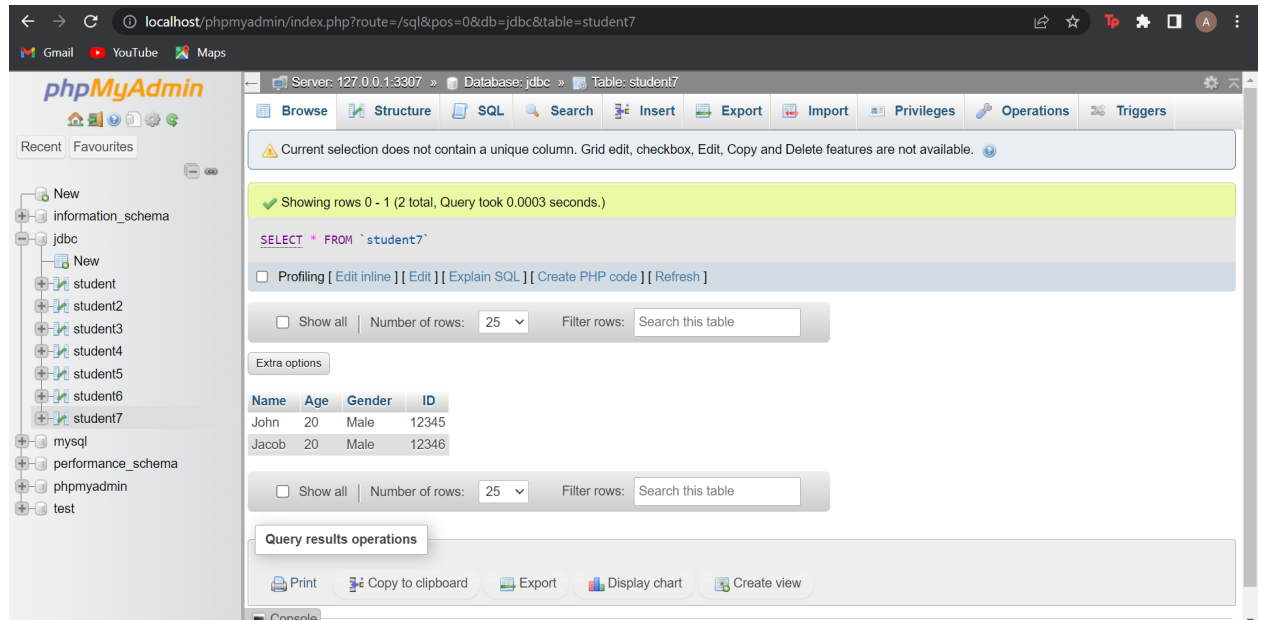
Create a table (student7) in phpmyAdmin

1. 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

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",
"");
```

```java
        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:

```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 = "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();
}
}
}
```