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

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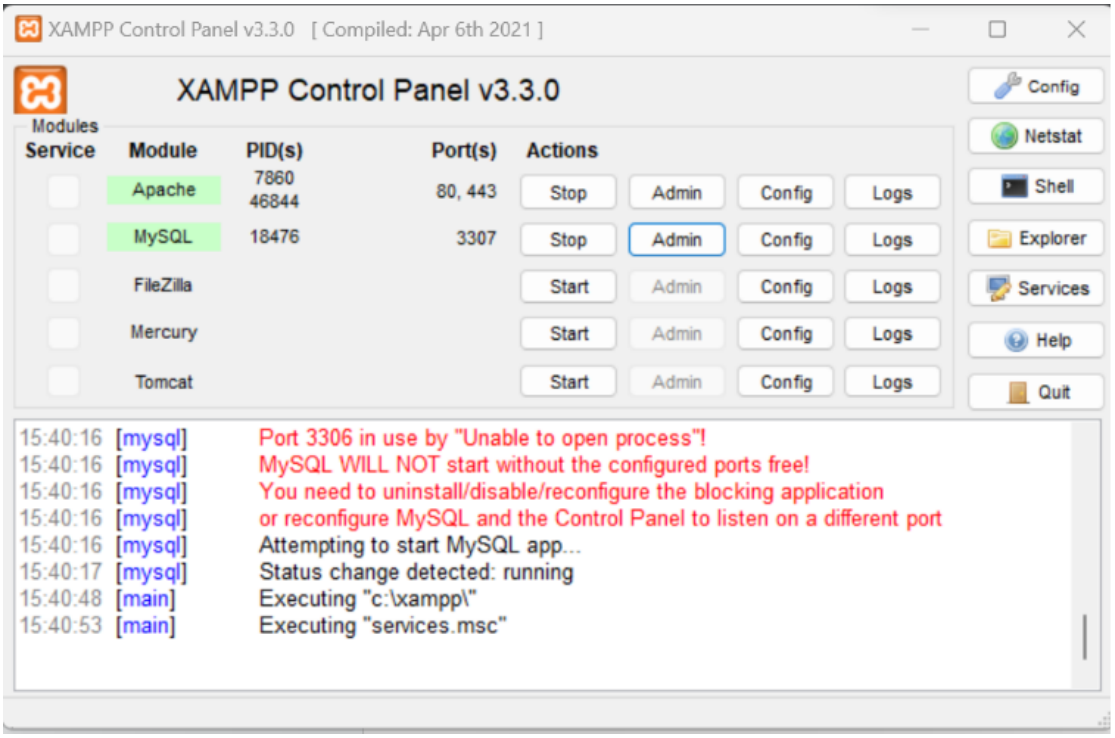
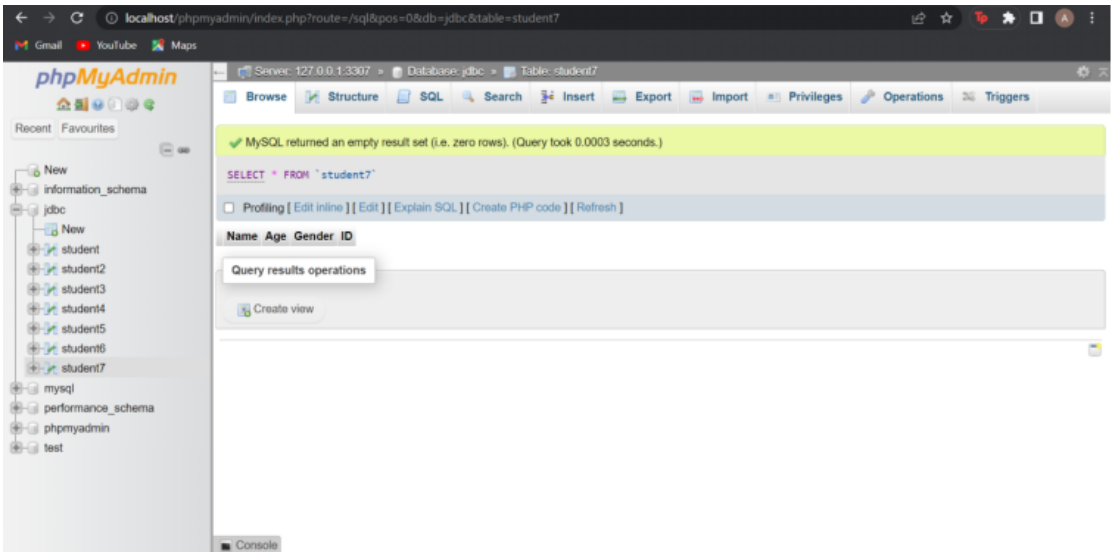
20BCE1721

1) Implement JDBC Connectivity using JAVA

Start XAMPP



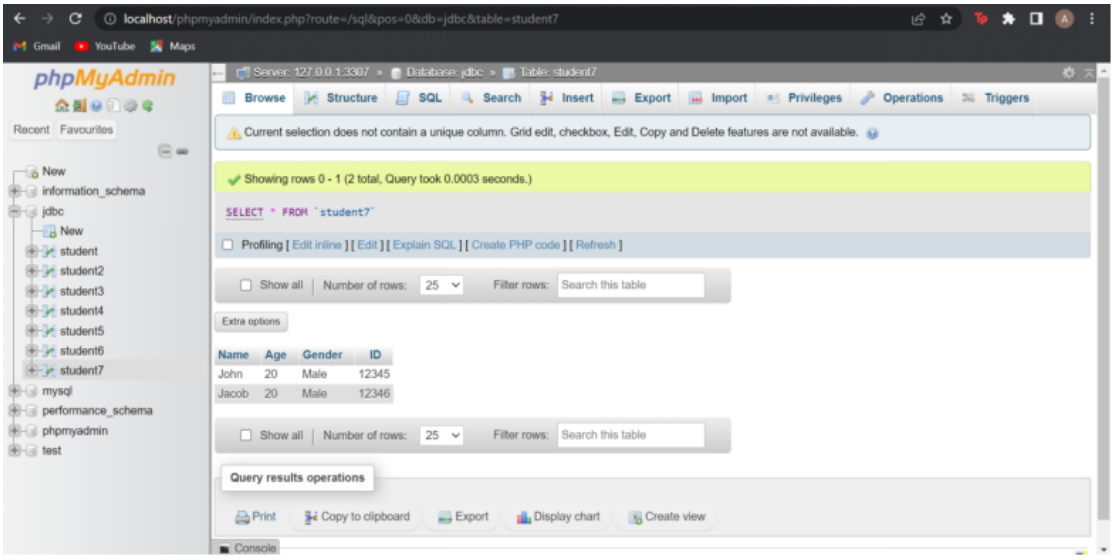
Creating a table



I. Insert
Code:

```
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:



II.Update

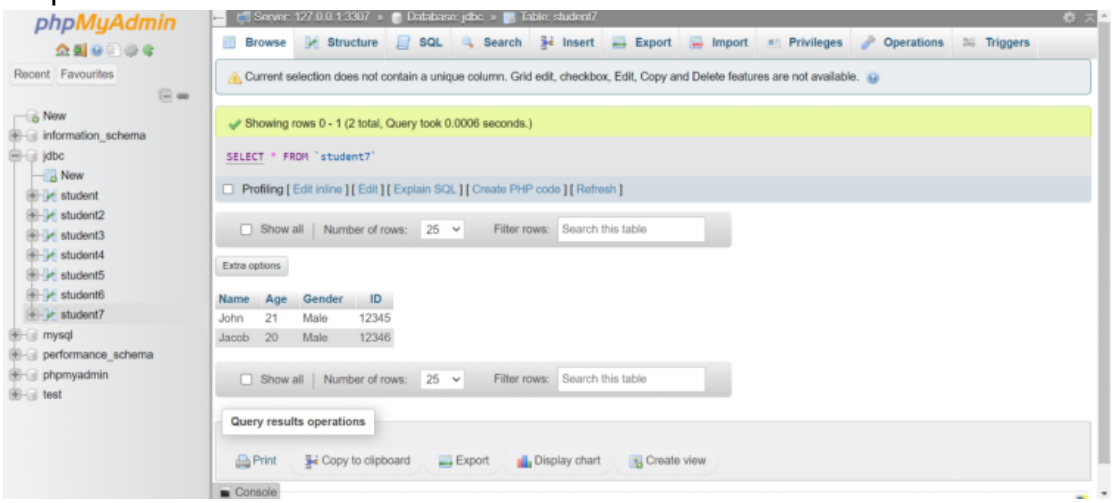
Code:

```
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:



III.Delete

Code:

```
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();
    }
    }
}
```

Output: