MODERN APPLICATION DEVELOPMENT

JAVA SPRING BOOT

WEEK ASSIGNMENT-3

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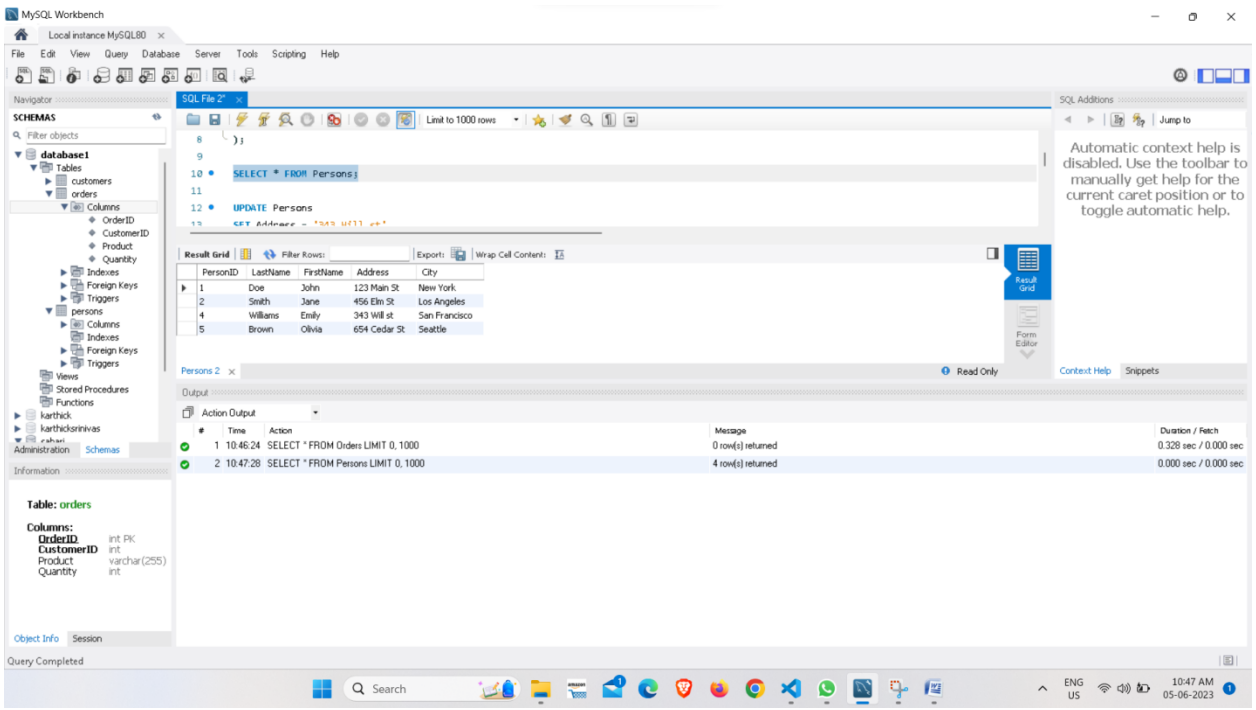
DRIVE LINK:

https://drive.google.com/drive/folders/1CchTAxowDVnVLqY6FmOfwluJ3OHvWaNX?usp=share_link

1) Implement JDBC:

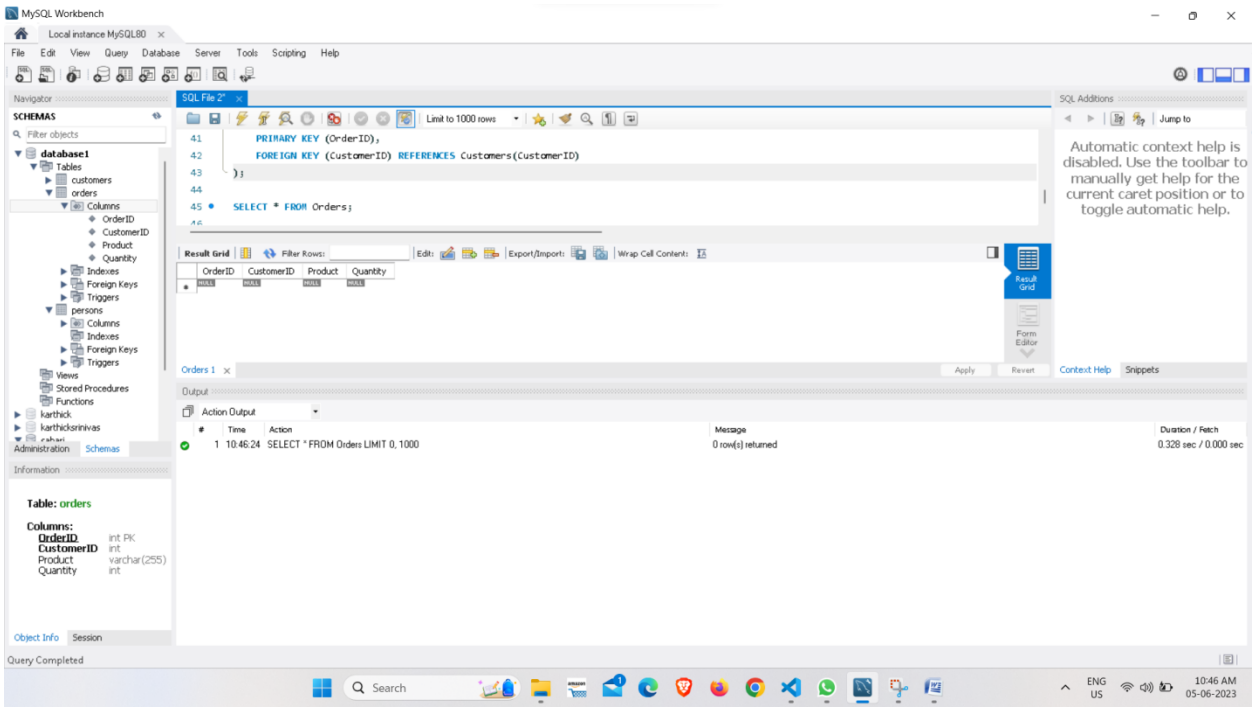
Table Creation:

```
CREATE TABLE Persons (
        PersonID int,
        LastName varchar(255),
        FirstName varchar(255),
        Address varchar(255),
        City varchar(255)
);
```




```
CREATE TABLE Orders (
```

```
    OrderID int,
    CustomerID int,
    Product varchar(255),
    Quantity int,
    PRIMARY KEY (OrderID),
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

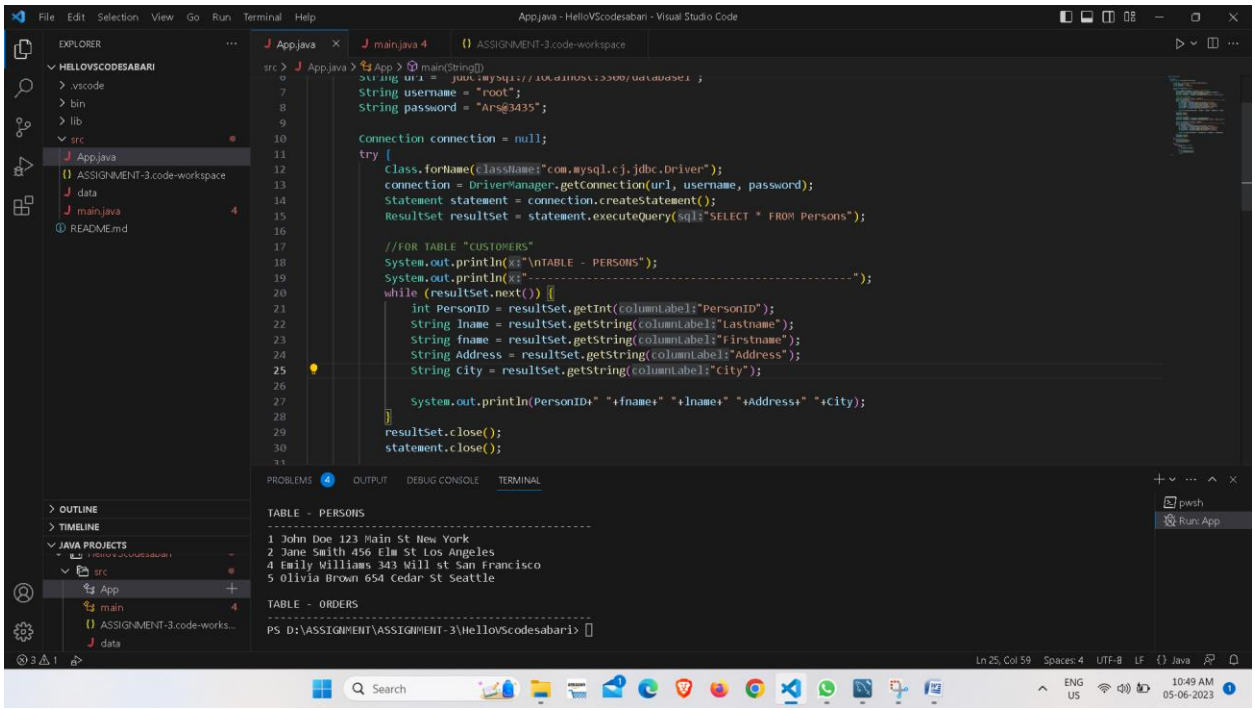


JDBC CODE:

```
import java.sql.*;

 class App {
    public static void main(String[] args)
    {
        String url = "jdbc:mysql://localhost:3306/database1";
        String username = "root";
        String password = "Ars@3435";

        Connection connection = null;
```

```
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            connection = DriverManager.getConnection(url, username, password);
            Statement statement = connection.createStatement();
            ResultSet resultSet = statement.executeQuery("SELECT * FROM Persons");

            //FOR TABLE "CUSTOMERS"
            System.out.println("\nTABLE - PERSONS");
            System.out.println("-------------------------------------------------");
            while (resultSet.next()) {
                int PersonID = resultSet.getInt("PersonID");
                String lname = resultSet.getString("Lastname");
                String fname = resultSet.getString("Firstname");
                String Address = resultSet.getString("Address");
                String City = resultSet.getString("City");

                System.out.println(PersonID+" "+fname+" "+lname+" "+Address+" "+City);
            }
            resultSet.close();
            statement.close();

            //FOR TABLE "ORDERS"
            Statement statement1 = connection.createStatement();
            ResultSet resultSet1 = statement1.executeQuery("SELECT * FROM orders");

            System.out.println("\nTABLE - ORDERS");
            System.out.println("-------------------------------------------------");
            while (resultSet1.next()) {
                int orderid = resultSet1.getInt("OrderID");
                int customerid = resultSet1.getInt("CustomerID");
                String Product = resultSet.getString("Product");
                int productid = resultSet1.getInt("ProductID");

                System.out.println(orderid+" "+customerid+" "+Product+" "+productid);
            }
            resultSet1.close();
            statement1.close();
        }
        catch (Exception e) {
            System.out.println(e);
            e.printStackTrace();
        }
        finally {
            if (connection != null) {
                try {
                    connection.close();
                }
                catch (SQLException e) {
                    e.printStackTrace();
                } } }
    } }
```

OUTPUT:


App.java - HelloVScodesabari - Visual Studio Code
String username = "root";
String password = "Ars@3435";
Connection connection = null;
try {
class.forName(className:"com.mysql.cj.jdbc.Driver");
connection = DriverManager.getConnection(url, username, password);
Statement statement = connection.createStatement();
ResultSet resultSet = statement.executeQuery(sql:"SELECT * FROM Persons");
//FOR TABLE "CUSTOMERS"
System.out.println(x:"\nTABLE - PERSONS");
System.out.println(x:"--");
while (resultSet.next()) {
int PersonID = resultSet.getInt(columnLabel:"PersonID");
String lname = resultSet.getString(columnLabel:"Lastname");
String fname = resultSet.getString(columnLabel:"Firstname");
String Address = resultSet.getString(columnLabel:"Address");
String City = resultSet.getString(columnLabel:"city");
System.out.println(PersonID+" "+fname+" "+lname+" "+Address+" "+city);
}
resultSet.close();
statement.close();
TABLE - PERSONS
1 John Doe 123 Main St New York
2 Jane Smith 456 Elm St Los Angeles
4 Emily Williams 343 Will st San Francisco
5 Olivia Brown 654 Cedar St Seattle
TABLE - ORDERS
PS D:\ASSIGNMENT\ASSIGNMENT-3\HelloVScodesabari>