**MODERN APPLICATION DEVELOPMENT**

**(JAVA SPRING BOOT)**

**ASSIGNMENT-3**

**NAME:** AZHAGIRI S

**REGNO:** 20MIS0440

**COLLEGE:** VIT VELLORE

**BRANCH:** INTEGRATED M TECH (SOFTWARE ENGINEERING)

**GOOGLE DRIVE LINK:**

**1.IMPLEMENT JDBC CONNECTIVITY USING JAVA**

**In Mysql:**

CREATE TABLE Persons (

PersonID int,

LastName varchar(255),

FirstName varchar(255),

Address varchar(255),

City varchar(255)

);

INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

VALUES (1, 'Smith', 'John', '123 Main Street', 'New York');

INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

VALUES (2, 'Johnson', 'Emily', '456 Elm Avenue', 'Los Angeles');

INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

VALUES (3, 'Davis', 'Michael', '789 Oak Road', 'Chicago');

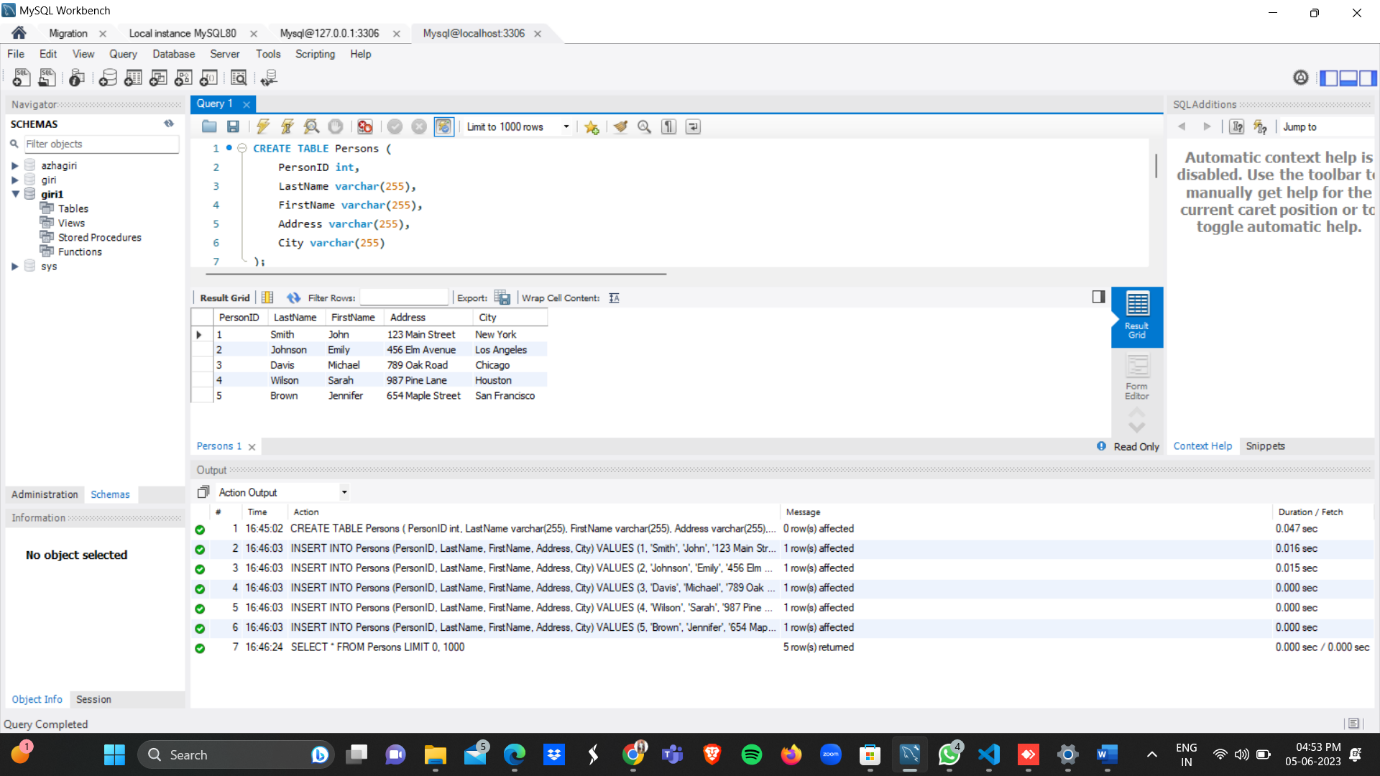
INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

VALUES (4, 'Wilson', 'Sarah', '987 Pine Lane', 'Houston');

INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)

VALUES (5, 'Brown', 'Jennifer', '654 Maple Street', 'San Francisco');

SELECT \* FROM Persons;



**JAVE CODE:**

import java.sql.\*;

public class data {

    public static void main(String[] args) {

        String url = "jdbc:mysql://localhost:3306/giri1";

        String username = "root";

        String password = "giri6403";

        Connection connection = null;

        Statement statement = null;

        ResultSet resultSet = null;

        try {

            // Step 1: Register the JDBC driver

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

            // Step 2: Open a connection

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

            // Step 3: Create a statement

            statement = connection.createStatement();

            // Step 4: Execute the query

            String sqlQuery = "SELECT \* FROM Persons";

            resultSet = statement.executeQuery(sqlQuery);

            // Step 5: Process the result set

            while (resultSet.next()) {

                int Personid = resultSet.getInt("PersonID");

                String Lastname = resultSet.getString("Lastname");

                String Firstname = resultSet.getString("Firstname");

                String Address = resultSet.getString("Address");

                String City = resultSet.getString("City");

                System.out.println("ID: " + Personid + ", FirstName: " + Firstname + ",  Lastname: " + Lastname + ", Address: " + Address + ", City: " + City );

            }

        } catch (SQLException | ClassNotFoundException e) {

            e.printStackTrace();

        } finally {

            // Step 6: Clean up resources

            try {

                if (resultSet != null) {

                    resultSet.close();

                }

                if (statement != null) {

                    statement.close();

                }

                if (connection != null) {

                    connection.close();

                }

            } catch (SQLException e) {

                e.printStackTrace();

            }

        }

    }

}

**OUTPUT SCREENSHOTS:**

