Practical 6(JDBC)

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

public class insertData {

private static final String JDBC\_URL =

"jdbc:mysql://localhost:3306/studentData?user=root&password=Siddhi@2517";

public static void main(String[] args) {

try {

Connection connection = DriverManager.getConnection(JDBC\_URL);

//createTable(connection);

// clearTable(connection);

System.out.println("Inserted data is : \n");

insertData(connection, 1, "siddhi", "Electronics", "TE");

insertData(connection, 2, "Prajakta", "Electronics", "TE");

insertData(connection, 3, "Anuja", "IT", "TE");

insertData(connection, 4, "Samaruddhi", "CS", "TE");

insertData(connection, 5, "Rani", "Mechanical", "BE");

displayData(connection);

connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

/\* private static void createTable(Connection connection) throws SQLException {

String sql = "CREATE TABLE IF NOT EXISTS student\_table (" +

"Roll\_no INT PRIMARY KEY, " +

"Name VARCHAR(25), " +

"Branch VARCHAR(25), " +

"Year VARCHAR(2))";

try (PreparedStatement statement = connection.prepareStatement(sql)) {

statement.executeUpdate();

}

}

private static void clearTable(Connection connection) throws SQLException {

String sql = "TRUNCATE TABLE student\_table";

try (PreparedStatement statement = connection.prepareStatement(sql)) {

statement.executeUpdate();

System.out.println("Table cleared successfully.\n");

}

}

\*/

private static void insertData(Connection connection, int rollNo, String name, String branch, String year) throws SQLException {

String sql = "INSERT INTO student\_table\_1 (Roll\_no, Name, Branch, Year) VALUES (?, ?, ?, ?)";

try (PreparedStatement statement = connection.prepareStatement(sql)) {

statement.setInt(1, rollNo);

statement.setString(2, name);

statement.setString(3, branch);

statement.setString(4, year);

int rowsInserted = statement.executeUpdate();

}

}

private static void displayData(Connection connection) throws SQLException {

String sql = "SELECT \* FROM student\_table\_1";

try (PreparedStatement statement = connection.prepareStatement(sql);

ResultSet resultSet = statement.executeQuery()) {

System.out.printf("%-10s%-12s%-15s%-5s\n", "Roll no", "Name", "Branch",

"Year");

while (resultSet.next()) {

int rollNo = resultSet.getInt("Roll\_no");

String name = resultSet.getString("Name");

String branch = resultSet.getString("Branch");

String year = resultSet.getString("Year");

System.out.printf("%-10d%-12s%-15s%-5s\n", rollNo, name, branch, year);

}

}

}

}

SQL

create database studentData;

use studentData;

create table student\_table\_1(Roll\_no int primary key, Name varchar(30), Branch varchar(30), Year varchar(30));

select\* from student\_table\_1;

truncate table student\_table\_1;