WEEK 14

Question 1: Write a Java program to:

a) Connect with a database of your choice using JDBC API.
b) Create an Employee table having employee id, age, name and salary.
c) Insert five records in to Employee table.
d) Delete any two records.

Code: *Main.java*

```
package mysql;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;

public class Main {
   public static void main() {

      String url = "jdbc:mysql://127.0.0.1:3306/?user=root";
      String user = "root";
      String password = "mAiPassWordHu67!";

      try {
         // Loading JDBC Driver
         Class.forName("com.mysql.cj.jdbc.Driver");

         // Establish Connection
         Connection connection = DriverManager.getConnection(url, user, password);
         System.out.println("Connected successfully");

         // Creating Statement Object
         Statement statement = connection.createStatement();

         // Creating Database
         String createDB = "CREATE DATABASE IF NOT EXISTS Week14";
         statement.executeUpdate(createDB);
         System.out.println("Database created successfully");
```

Code: *Main.java*

```
// Select database
String useDB = "USE Week14";
statement.executeUpdate(useDB);

// Create Table
String createTable = """
    CREATE TABLE IF NOT EXISTS Employee (
        EmployeeID INT PRIMARY KEY,
        Name VARCHAR(50) NOT NULL,
        Age INT NOT NULL,
        Salary FLOAT DEFAULT 0.00
    );
""";
statement.executeUpdate(createTable);
System.out.println("Table created successfully");

// Insert records
String tableRecords = """
    INSERT INTO Employee (EmployeeID, Name, Age , Salary) VALUES
        (162, 'Abhinav', 22, 87000),
        (115, 'Kush', 23, 65000),
        (135, 'Vimal', 21, 71000),
        (567, 'Tarun', 22, 66000),
        (503, 'Ankit', 22, 60000);
""";
statement.executeUpdate(tableRecords);
System.out.println("Records inserted successfully");

// Display table
System.out.println("\nTable Records:");
ResultSet resultSet = statement.executeQuery("SELECT * FROM Employee");
while (resultSet.next()) {
    System.out.println(
            resultSet.getInt("EmployeeID") + " | " +
                    resultSet.getString("Name") + " | " +
                    resultSet.getInt("Age") + " | " +
                    resultSet.getFloat("Salary")
    );
}

// Deleting any two records
statement.executeUpdate("DELETE FROM Employee WHERE EmployeeID = 115;");
statement.executeUpdate("DELETE FROM Employee WHERE EmployeeID = 503;");
System.out.println("Two records deleted successfully");
```

Code: *Main.java*

```
        // Display table
        ResultSet remainingResultSet = statement.executeQuery("SELECT * FROM
 Employee;");
        System.out.println("\nRemaining Records:");
        while (remainingResultSet.next()) {
           System.out.println(
                 remainingResultSet.getInt("EmployeeID") + " | " +
                       remainingResultSet.getString("Name") + " | " +
                       remainingResultSet.getInt("Age") + " | " +
                       remainingResultSet.getFloat("Salary")
           );
        }

        // closing resources
        remainingResultSet.close();
        resultSet.close();
        statement.close();
        connection.close();

     } catch (ClassNotFoundException e) {
        System.out.println("Driver Not Found");
     } catch (SQLException e) {
        System.out.println("SQL Error");
     }
  }
}
```

Output:

```
"C:\Program Files\Java\OpenJDK\jdk-25\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2025.2.1\lib\idea_rt.jar=54110" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 14\Week_14\target\classes;C:\Program Files\Java\JDBC-MySQL\mysql-connector-j-9.4.0\mysql-connector-j-9.4.0.jar" mysql.Main
Connected successfully
Database created successfully
Table created successfully
Records inserted successfully
115 | Kush | 23 | 65000.0
135 | Vimal | 21 | 71000.0
162 | Abhinav | 22 | 87000.0
503 | Ankit | 22 | 60000.0
567 | Tarun | 22 | 66000.0
Two records deleted successfully
Remaining Records:
135 | Vimal | 21 | 71000.0
162 | Abhinav | 22 | 87000.0
567 | Tarun | 22 | 66000.0

Process finished with exit code 0
```

Table ScreenShot: