<u>WEEK 14</u>

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 = "idbc: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");
```

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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);
111111.
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");
```

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Code: <u>Main.java</u>

```
// 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");
  }
```

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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.stdout.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:

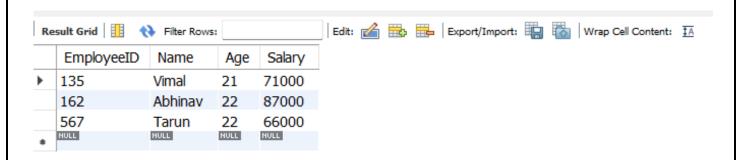
135 | Vimal | 21 | 71000.0

162 | Abhinav | 22 | 87000.0

567 | Tarun | 22 | 66000.0

Process finished with exit code 0

Table ScreenShot:



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