Question 1:

Write a Java program to:

1. Connect with a database of your choice using JDBC API.
2. Create an Employee table having employee id, age, name and salary.
3. Insert five records in to Employee table.
4. Delete any two records.

Week 14

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");

// 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");

*Main.java*

Code:

// 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");  
 }  
 }  
}

*Main.java*

Code:

"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

Output:

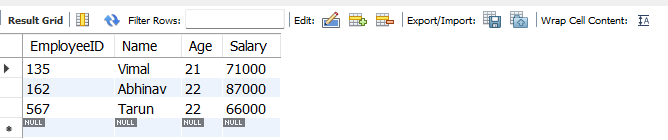


Table ScreenShot: