

## 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 db;
import java.sql.ResultSet;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
public class Main {
    public static void main(String[] args) throws SQLException {

        String url =
"jdbc:mysql://127.0.0.1:3306/Employee?useSSL=false&serverTimezone=UTC";
        String user = "root";
        String password = "maiPasswordHu67";

        String createTable =
            "CREATE TABLE IF NOT EXISTS Employee (" +
                " id INT PRIMARY KEY," +
                " name VARCHAR(100)," +
                " age INT," +
                " salary DOUBLE" +
            ")";

        String[] inserts = new String[] {
            "INSERT INTO Employee (id, name, age, salary) VALUES (1,'John',25,50000)",
            "INSERT INTO Employee (id, name, age, salary) VALUES (2,'Alice',30,60000)",
            "INSERT INTO Employee (id, name, age, salary) VALUES (3,'Bob',28,55000)",
            "INSERT INTO Employee (id, name, age, salary) VALUES (4,'Carol',26,52000)",
            "INSERT INTO Employee (id, name, age, salary) VALUES (5,'David',32,70000)"
        };
    }
}
```

Code:      Main.java

```
String delete1 = "DELETE FROM Employee WHERE id = 2";
String delete2 = "DELETE FROM Employee WHERE id = 4";

String selectAll = "SELECT id, name, age, salary FROM Employee";

try (Connection conn = DriverManager.getConnection(url, user, password);
    Statement stmt = conn.createStatement()) {

    stmt.executeUpdate(createTable);
    for (String s : inserts) {
        try {
            stmt.executeUpdate(s);
        } catch (SQLException e) {
            if (e.getErrorCode() == 1062) {
            } else {
                throw e;
            }
        }
    }

    stmt.executeUpdate(delete1);
    stmt.executeUpdate(delete2);

    try (ResultSet rs = stmt.executeQuery(selectAll)) {
        System.out.println("Remaining Employees:");
        while (rs.next()) {
            System.out.printf("%d | %s | %d | %.2f%n",
                rs.getInt("id"),
                rs.getString("name"),
                rs.getInt("age"),
                rs.getDouble("salary"));
        }
    }

} catch (SQLException e) {
    e.printStackTrace();
}
}
```

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=59703" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "D:\Uni Material\LAB\sem 3\Week 14\Questoin1\target\classes;C:\Program Files\Java\JDBC-MySQL\mysql-connector-j-9.4.0\mysql-connector-j-9.4.0.jar" db.Main

Remaining Employees:

1 | John | 25 | 50000.00

3 | Bob | 28 | 55000.00

5 | David | 32 | 70000.00

Process finished with exit code 0

### Table ScreenShot:

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	id	name	age	salary
▶	1	John	25	50000
	3	Bob	28	55000
	5	David	32	70000
✱	NULL	NULL	NULL	NULL