

# Lecture 13\_JDBC Transactions

## Transaction Demo

```
TransactionDemo.java
1 import java.sql.*;
2
3 public class TransactionDemo {
4
5     public static void main(String[] args) throws SQLException {
6
7         Connection myConn = null;
8         Statement myStmt = null;
9
10        try {
11            // 1. Get a connection to database
12            myConn = DriverManager.getConnection(
13                "jdbc:mysql://localhost:3306/db_zabala", "student", "student");
14
15            // Turn off auto commit
16            myConn.setAutoCommit(false);
17
18            // Show salaries BEFORE
19            System.out.println("Salaries BEFORE\n");
20            showSalaries(myConn, "HR");
21            showSalaries(myConn, "Engineering");
22
23            // Transaction Step 1: Delete all HR employees
24            myStmt = myConn.createStatement();
25            myStmt.executeUpdate("delete from employees where department='HR'");
26
27            // Transaction Step 2: Set salaries to 300000 for all Engineering
28            // employees
29            myStmt.executeUpdate("update employees set salary=300000 where department='Engineering'");
30        }
31    }
32}
```

Console Output:

```
TransactionDemo [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Nov 12, 2024, 7:32:40 PM) [pid: 1088]
Show Salaries for Department: Engineering
Public, Mary, Engineering, 115000.00
Johnson, Lisa, Engineering, 90000.00
Brown, Bill, Engineering, 90000.00
Fowler, Mary, Engineering, 105000.00

>> Transaction steps are ready.

Is it okay to save? yes/no:
```