

Practical - 10

JDBC

QUESTION-1

Develop a java application to accept employee information and store in Employee(empid, name, dept and salary) table. Also provide following functionality.

- a) Add new employee
- b) Update employee details (base on empid)
- c) Delete employee
- d) Display all employee
- e) Display maximum and minimum salary employee details

Display employee information according to their department(Group by)

CODE:

```
import java.sql.*;
import java.util.*;

class JDBCDEMO {
    public static void main(String args[]) throws SQLException {
        Scanner Scan = new Scanner(System.in);
        Scanner Scan1 = new Scanner(System.in);
        Connection con = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url = "jdbc:mysql://localhost:3306/JDBCDEMO";
            con = DriverManager.getConnection(url, "supernova", "hacktrick");
            String Ins = "insert into employee(empid,name,dept,salary) values(?,?,?,?)";
            System.out.println("Insert Employee Details");
            PreparedStatement pstIns = con.prepareStatement(Ins);
            int id = Scan.nextInt();
            System.out.print("Enter Employee Id:");
            pstIns.setInt(1, id);

            System.out.print("Enter Employee Name:");
            String name = Scan1.next();
            pstIns.setString(2, name);

            System.out.print("Enter Employee Department:");
            String dep = Scan1.next();
            pstIns.setString(3, dep);
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System.out.print("Enter Employee Salary:");
Double sal = Scan.nextDouble();
pstIns.setDouble(4, sal);

int i = pstIns.executeUpdate();
System.out.println("inserted row " + i);
System.out.println("");
String qsU = "update employee set name=? where empid=?";
System.out.println("Update EmployeeDetails");
PreparedStatement pstU = con.prepareStatement(qsU);
System.out.print("Enter Id which name you want to update:");
int idU = Scan.nextInt();
pstU.setInt(2, idU);

System.out.print("Enter new Name:");
String nameU = Scan1.next();
pstU.setString(1, nameU);

System.out.println("Uptated row " + pstU.executeUpdate() +
".....");
String qsD = "delete from employee where empid=?";
System.out.println(".....
");
System.out.println("Delete Employee Details");
PreparedStatement pstD = con.prepareStatement(qsD);

System.out.print("Enter Id which name you want to Delete:");
int idD = Scan.nextInt();
pstD.setInt(1, idD);

System.out.println("Deleted row " + pstD.executeUpdate() +
".....");
System.out.println(".....
");

Statement smntMax = con.createStatement();
String qsMax = "select  from employee where salary in ( select max(salary)
from employee);";
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ResultSet resMax = smntMax.executeQuery(qsMax);
boolean moreMax = resMax.next();

System.out.println("Employee Details[Maximum Salary]");
System.out.println("EmpId\tName\tDepartment\tSalary ");

while (moreMax) {
    System.out.printf("%5d|", resMax.getInt(1));
    System.out.printf("%10s|", resMax.getString(2));
    System.out.printf("%10s|", resMax.getString(3));
    System.out.printf("%10s|", resMax.getString(4));
    System.out.println("");
    moreMax = resMax.next();
}
System.out.println("-----");
Statement smntMin = con.createStatement();
String qsMin = "select  from employee where salary in ( select min(salary)
from employee)";
ResultSet resMin = smntMin.executeQuery(qsMin);
boolean moreMin = resMin.next();
System.out.println("-----Employee Details[Minimum
Salary]-----");
System.out.println("EmpId\tName\tDepartment\tSalary ");
while (moreMin) {
    System.out.printf("%5d|", resMin.getInt(1));
    System.out.printf("%10s|", resMin.getString(2));
    System.out.printf("%10s|", resMin.getString(3));
    System.out.printf("%10s|", resMin.getString(4));
    System.out.println("");
    moreMin = resMin.next();
}
System.out.println("-----");
--");

Statement smntDis = con.createStatement();
String qsDis = "select from employee order by dept deScan";
ResultSet resDis = smntDis.executeQuery(qsDis);
boolean moreDis = resDis.next();
```

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        System.out.println("Employee Details[Group By Department]");
        System.out.println("EmpId\tName\tDepartment\tSalary ");
        while (moreDis) {
            System.out.printf("%5d|", resDis.getInt(1));
            System.out.printf("%10s|", resDis.getString(2));
            System.out.printf("%10s|", resDis.getString(3));
            System.out.printf("%10s|", resDis.getString(4));
            System.out.println("");
            moreDis = resDis.next();
        }
        System.out.println("");
    } catch (Exception ex) {
        System.out.println("Error on data select" + ex);
        ex.printStackTrace();
    } finally {
        con.close();
    }
}
}
```

OUTPUT:

D:Alyani/MA003/JAVA>JavaC JDBCdemo.java

D:Alyani/MA003/JAVA>Java JDBCdemo

InsertEmployeeDetails

Enter Employee Id: 123

Enter Employee Name: HKP

Enter Employee Department: MCA

Enter Employee Salary: 120000

inserted row 1

Update Employee Details

Enter Id which name you want to update: 123

Enter new Name:Alyani

Uptated row 1.....

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```
-----
Delete Employee Details
Enter Id which name you want to Delete: 3
Deleted row 0.....
-----
Employee Details[Maximum Salary]
-----
EmpId      Name      Department      Salary
-----
123        Alyani      MCA             120000.00
-----
```