Assignment - 6

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Roll No.: 130

Title: Develop a program to perform the database driven operation like insert, Delete, Update and select on MySQL. To perform the above operations, create one table named Employee. a.EmpId Integer b.Empname Varchar c.Emp_desig Varchar d.Emp_J_Date Varchar e.Emp_Salary Numeric

JAVA APPLICATION PROGRAM:

```
package practical6;

import java.sql.*;
import java.util.Scanner;

public class Practical6 {

    static void insert(String name, String desgn, String doj, long salary)
{
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/info","root","");
            Statement sm = con.createStatement();
            sm.executeUpdate("INSERT INTO `employees` (`EmpID`, `EmpName`,
`EmpDesg`, `EmpJDate`, `EmpSalary`) VALUES (NULL, '"+name+"', '"+desgn+"',
'"+doj+"', '"+salary+"');");
        }catch(Exception E){
            System.out.println(E);
        }
    }

    static void show(){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/info","root","220214")
;
            Statement sm = con.createStatement();
            ResultSet res = sm.executeQuery("select * from employees");
            System.out.println("Id Name Designation Doj Salary");
            while(res.next()){
```

```
                System.out.println(res.getString(1)+" "+res.getString(2)+"
"+res.getString(3)+" "+res.getString(4)+" "+res.getString(5));
            }
        }catch(Exception E){
            System.out.println(E);
        }
    }

    static void delete(int id){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/info","root","");
            Statement sm = con.createStatement();
            sm.executeUpdate("delete from employees where empid = "+id);
            System.out.println("Id Deleted From Employee Table");
        }catch(Exception E){
            System.out.println(E);
        }
    }

    static void update(int id,String desg){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/info","root","");
            Statement sm = con.createStatement();
            sm.executeUpdate("update employees set EmpDesg = '"+desg+"'
where empid = "+id);
        }catch(Exception E){
            System.out.println(E);
        }
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        Scanner scan = new Scanner(System.in).useDelimiter("\n");
        while(true){
            boolean exit = false;
            System.out.println("1. Insert");
            System.out.println("2. View");
            System.out.println("3. Delete");
            System.out.println("4. Update ");
            System.out.println("5. Exit");
            System.out.print("Enter Option: ");
            int op = sc.nextInt();
            switch(op){
                case 1:
                    System.out.print("Enter Name: ");
```

```
                    String name = scan.next();
                    System.out.print("Enter Designation: ");
                    String desg = scan.next();
                    System.out.print("Enter Date of Joining: ");
                    String doj = sc.next();
                    System.out.print("Enter Salary: ");
                    long salary = sc.nextLong();
                    insert(name,desg,doj,salary);
                    break;
                case 2:
                    show();
                    break;
                case 3:
                    System.out.print("Enter id of the employee to be
deleted: ");
                    int id = sc.nextInt();
                    delete(id);
                    break;
                case 4:
                    System.out.print("Enter id whose designation has to be
changed: ");
                    int upId = sc.nextInt();
                    System.out.print("Enter change in designation: ");
                    String upDesg = scan.next();
                    update(upId,upDesg);
                    break;
                case 5:
                    exit = true;
                    break;
                default:
                    System.out.println("Enter valid number!!!");
                    break;
            }
            System.out.println();
            if(exit) break;
        }
    }

}
```

OUTPUT :

```
1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 1
Enter Name: Bhumika Makkar
Enter Designation: Business Analyst
Enter Date of Joining: 29-09-2020
Enter Salary: 1000000

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 1
Enter Name: Abhishek Sahu
Enter Designation: Chemical Engineer
Enter Date of Joining: 21-10-2020
Enter Salary: 450000

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 1
Enter Name: Naman Madharia
Enter Designation: Software Engineer Associate
Enter Date of Joining: 21-09-2020
Enter Salary: 500000

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 2
Id Name Designation Doj Salary
16 Bhumika Makkar Business Analyst 29-08-2020 1000000
17 Abhishek Sahu Chemical Engineer 21-10-2020 450000
18 Naman Madharia Software Engineer Associate 21-09-2020 500000

1. Insert
```

```
2. View
3. Delete
4. Update
5. Exit
Enter Option: 3
Enter id of the employee to be deleted: 17
Id Deleted From Employee Table

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 2
Id Name Designation Doj Salary
16 Bhumika Makkar Business Analyst 29-08-2020 1000000
18 Naman Madharia Software Engineer Associate 21-09-2020 500000
1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 4
Enter id whose designation has to be changed: 16
Enter change in designation: SEA

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 2
Id Name Designation Doj Salary
16 Bhumika Makkar BA 29-08-2020 1000000
18 Naman Madharia Software Engineer Associate 21-09-2020 500000

1. Insert
2. View
3. Delete
4. Update
5. Exit
Enter Option: 5
```