**Assignment - 6**

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**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:**

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| **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 :**

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| 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 |