
Assignment No. 01

| Name of Student: Rupesh Ramesh Desai | Roll No.: | |
|---|------------------|-----|
| Class: B.Sc III | Date: / / | |
| Signature: | | |
| **************** | *********** | *** |
| Q. Program on Swing Program: | | |
| import javax.swing.*; public | | |
| class Swing | | |
| { | | |
| <pre>public static void main(String args[])</pre> | | |
| { | | |
| JFrame f=new JFrame(); | | |
| JButton b=new JButton("Click Me"); | | |
| b.setBounds(140,100,100,40); | | |
| f.add(b); | | |
| f.setSize(400,500); | | |
| f setLayout(null): | | |

f.setVisible(true);

}



Assignment No. 02

| Name of Student: Rupesh Ramesh Desai | Roll No.: |
|---|------------------|
| Class: B.Sc III | Date: / / |
| Signature: | |
| *************** | *********** |
| Q. Simple program using servlet. | |
| Program: | |
| index.html: | |
| html | |
| <html></html> | |
| <head></head> | |
| <title>TODO supply a title</title> | |
| <meta charset="utf-8"/> | |
| <meta content="width=device-v</td><th>vidth, initial-scale=1.0" name="viewport"/> | |
| | |
| <body></body> | |
| <form action="Assignment2"></form> | |
| <pre><input type="submit" value="CLICK"/></pre> | |
| | |
| | |
| | |
| ************************************** | ********** |
| | |
| 3 TODO supply a title x + | |
| ← → ♂ localhost:38382/WebApplication1, | 1 |
| CLICK | |

Servlet:

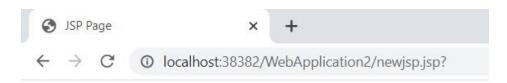
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class Assignment2 extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
       out.println("<!DOCTYPE html>");
       out.println("<html>");
       out.println("<head>");
       out.println("<title>Servlet Assignment2</title>");
       out.println("</head>");
       out.println("<body>");
       out.println("<h1>Servlet Assignment2 at " + request.getContextPath() + "</h1>");
       out.println("</body>");
       out.println("</html>");
    }
  }
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  }
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  @Override
  public String getServletInfo() {
```

Servlet Assignment2 at /WebApplication1

Assignment No. 03

| Name of Student: Rupesh Ramesh Desai | Roll No.: | |
|---|---------------------|-------|
| Class: B.Sc III | Date: / | 1 |
| Signature: | | |
| **************** | ******* | ***** |
| Q. Simple program using JSP. | | |
| Program: | | |
| index.html: | | |
| <html> <html> <head> <title>TODO supply a title</title> <meta charset="utf-8"/> <meta content="width=device-width, i </head> <body> <form action =" name="viewport" newjsp.jsp"=""/> <input type="submit" value="CLICK"/> <html></html></head></html></html> | initial-scale=1.0"> | |
| ******OUTPUT******* | ******** | :**** |
| ▼ TODO supply a title ★ | | |
| ← → C | | |
| CLICK | | |

Jsp:



Hello

Assignment No. 04

| Name of Student: Rupesh Ramesh Desai | Roll No.: | | | |
|--------------------------------------|-----------|---|---|--|
| Class: B.Sc III | Date: | / | / | |
| Signature: | | | | |

Q. Program on Database Connection.

Program:

```
import java.io.*;
import java.sql.*;
public class demo {
  public static void main (String[] args) throws Exception
    // class.forName("com.mysql.jdbc.Driver");
    Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/sandesh","root","root");
    Statement stmt = con.createStatement();
     ResultSet rs=stmt.executeQuery("select * from stud");
     while(rs.next())
       int sid = rs.getInt("sid");
       String name = rs.getString("name");
       System.out.println(sid+" "+name);
     }
    con.close();
}
```

coutput - Demo (run) run: 1 Rupesh 2 Pooja 3 Mamata 4 Swati 5 Vaidehi 6 Niranjan BUILD SUCCESSFUL (total time: 0 seconds)

Assignment No. 05

| Name of Student: Rupesh Ramesh Desai | Roll No.: | | | |
|--------------------------------------|-----------|---|---|--|
| Class: B.Sc III | Date: | 1 | / | |
| Signature: | | | | |

Q. Develop a java application to store image in a database as well as retrieve image from

database.

Program:

DataAccess.java

```
package Pooja;
import java.sql.*;
import com.mysql.jdbc.Driver;
import java.sql.Connection;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
class DataAccess {
public static final String url1 = "jdbc:mysql://localhost:3306/Pooja";
 public static final String USER = "root";
 public static final String PASS = "root";
 public static Connection getConnection() throws SQLException
 try {
      DriverManager.registerDriver(new Driver());
      return DriverManager.getConnection(url1, USER, PASS);
   } catch (Exception ex)
      System.out.println(ex);
   }
       return null;
  }
```

Image1.java

```
import static java.lang.System.out;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class Image
 private int Id;
  private String Image;
 public int getId() {
    return Id;
  public String getImage() {
    return Image;
public void setImage(String Image) {
    this.Image = Image;
  public ResultSet getimage(int id) throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
       Statement stmt = con.createStatement();
       ResultSet rs = stmt.executeQuery("SELECT * FROM image WHERE Id=" + id);
       if (rs.next()) {
 return rs;
     } catch (SQLException ex) {
       System.out.print(ex.toString());
    return null;
public boolean insertimage(Image d) throws SQLException {
Connection cn = DataAccess.getConnection();
    PreparedStatement ps = cn.prepareStatement("INSERT INTO image(Image) VALUES
(?)");
    ps.setString(1, d.getImage());
    int i = ps.executeUpdate();
    if (i == 1) {
       return true;
 }
return false;
  }
```

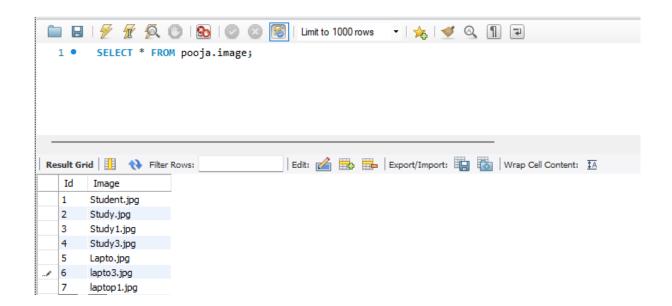
Image1.jsp

```
< @ page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="Pooja.Image1"%>
< @ page import="com.mysql.jdbc.Driver" %>
< @ page import="java.sql.Connection" %>
<%@ page import="java.sql.SQLException" %>
< @ page import="java.sql.Statement" %>
<%@ page import="java.sql.DriverManager" %>
<%@ page import="java.sql.ResultSet" %>
<%! Image1 cm = new Image1();%>
<%! ResultSet rs,rs1;%>
<%! int num ,id;
  String image=" ";
  %>
<%!
 void getMaxtid() {
    try {
       rs = cm.getMaxid();
       num = rs.getInt(1);
    } catch (Exception ex) {
%>
<%
  if (request.getParameter("btnSave") != null) {
  cm.setId(Integer.parseInt(request.getParameter("txtid")));
     cm.setImage(request.getParameter("txtimage"));
     cm.insertimage(cm);
     out.print("<script>");
       out.print("alert('insert record successfully')");
       out.print("</script>");
       getMaxtid();
 }
  %>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    k href="UL/css/bootstrap.css" rel="stylesheet" type="text/css"/>
    <script src="UL/jquery-3.6.0.min.js" type="text/javascript"></script>
    <script src="UL/js/bootstrap.js" type="text/javascript"></script>
 <title>JSP Page</title>
```

```
</head>
  <body>
    <img src="Img/Student.jpg" alt=""/>
    <img src="Img/Study.jpg" alt=""/>
    <img src="Img/Study1.jpg" alt=""/>
    <img src="Img/Study3.jpg" alt=""/>
    <img src="Img/Lapto.jpg" alt=""/>
    <img src="Img/lp3.jpg" alt=""/>
    <img src="Img/laptop1.jpg" alt=""/>
    <form method="post" name="frmclass">
       <div class="container">
       <div class="col-md-12">
     <div class="panel panel-primary">
     <div class="panel-heading"> <h3> Image Information </h3></div>
 <div class="panel-body">
<div class="row">
 <div class="col-md-2">
 <label> Id</label>
                                                                   class="form-
 <input type="text" id="txtid" Name="txtid" value="<%=num%>"
control">
 </div>
 <div class="col-md-3">
  <label> Image</label>
<input type="text" id="txtimage" Name="txtimage" value="<%=image%>" class="form-
control">
 </div>
</div>
<div class="row"><br>
 <div class="col-md-12 btn-group">
 <input type="submit" value="Save" name="btnSave" id="btnSave" class="btn btn-</pre>
success">
<input type="submit" value="Update" name="btnUpdate" id="btnUpdate" class="btn btn-
primary">
<input type="submit" value="Delete" name="btnDelete" id="btnDelete" class="btn btn-</pre>
danger">
 <input type="submit" value="Cancel" name="btnCancle" id="btnCancle" class="btn btn-
warning">
 </div>
  </div>
   </div>
    </div>
     </div>
  </form>
</body>
</html>
```

Review the SQL Script to be Applied on the Database

```
UPDATE `pooja`.'image` SET `Image` = 'lapto3.jpg' WHERE (`Id` = '6');
INSERT INTO `pooja`.`image` (`Id`, `Image`) VALUES ('8', 'laptop3.jpg');
```





Assignment No. 06

| Name of Student: Rupesh Ramesh Desai | Roll N | o.: | | |
|--------------------------------------|--------|------|-------|---|
| Class: B.Sc III | Date: | 1 | 1 | |
| Signature: | | | | |
| ********************** | ***** | **** | ***** | * |

Q. Create EMP table in database and perform insert, update and delete operation on EMP table using JSP.

Program:

DataAccess.java

```
package Pooja;
import java.sql.*;
import com.mysql.jdbc.Driver;
import java.sql.Connection;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
class DataAccess {
public static final String url1 = "jdbc:mysql://localhost:3306/ems";
 public static final String USER = "root";
 public static final String PASS = "root";
 public static Connection getConnection() throws SQLException
 try {
      DriverManager.registerDriver(new Driver());
      return DriverManager.getConnection(url1, USER, PASS);
    } catch (Exception ex)
      System.out.println(ex);
   }
       return null;
  }
```

EmpMaster.java

```
package Pooja;
import static java.lang.System.out;
import java.sql.Connection;
import java.sql.Date;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class EmpMaster
{
  private int EmpId;
  private String EmpName;
  private int EmpCode;
  private String MobileNo;
  private String Email;
  private String BasicSalary;
  public int getEmpId() {
    return EmpId;
 public void setEmpId(int EmpId) {
    this.EmpId = EmpId;
public String getEmpName() {
    return EmpName;
 public void setEmpName(String EmpName) {
    this.EmpName = EmpName;
  public int getEmpCode() {
    return EmpCode;
  public void setEmpCode(int EmpCode) {
    this.EmpCode = EmpCode;
  public String getMobileNo() {
    return MobileNo;
 public void setMobileNo(String MobileNo) {
    this.MobileNo = MobileNo:
  }
```

```
public String getEmail() {
    return Email;
 public void setEmail(String Email) {
    this.Email = Email;
  public String getBasicSalary() {
    return BasicSalary;
  public void setBasicSalary(String BasicSalary) {
    this.BasicSalary = BasicSalary;
  public ResultSet getempmaster(int id) throws SQLException {
    Connection con = DataAccess.getConnection();
      Statement stmt = con.createStatement();
      id);
      if (rs.next()) {
        return rs;
}
    } catch (SQLException ex) {
      System.out.print(ex.toString());
    return null;
  public ResultSet getempmaster() throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
      Statement stmt = con.createStatement();
      ResultSet rs = stmt.executeQuery("SELECT * FROM empmaster");
      if (rs.next()) {
        return rs;
    } catch (SQLException ex) {
      System.out.print(ex.toString());
    return null;
public ResultSet getMaxid() throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
```

```
Statement stmt = con.createStatement();
       ResultSet rs = stmt.executeQuery("select ifnull(max(EmpId+1),1) as maxcode from
empmaster");
       if (rs.next()) {
         return rs;
    } catch (SQLException ex) {
    return null;
 public boolean insertempmaster(EmpMaster d) throws SQLException {
    Connection cn = DataAccess.getConnection();
    PreparedStatement ps = cn.prepareStatement("INSERT INTO empmaster
(EmpName, EmpCode, Mobile No, Email, Basic Salary) VALUES (?,?,?,?)");
    ps.setString(1, d.getEmpName());
    ps.setInt(2, d.getEmpCode());
    ps.setString(3, d.getMobileNo());
    ps.setString(4, d.getEmail());
    ps.setString(5,d.getBasicSalary());
       int i = ps.executeUpdate();
    if (i == 1) {
       return true;
    }
    return false;
public boolean updateempmaster(EmpMaster d) throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
       PreparedStatement ps = con.prepareStatement("update empmaster SET
EmpName=?, EmpCode=?, MobileNo=?, Email=?, BasicSalary=? where EmpId=?");
    ps.setString(1, d.getEmpName());
    ps.setInt(2, d.getEmpCode());
    ps.setString(3, d.getMobileNo());
    ps.setString(4, d.getEmail());
    ps.setString(5,d.getBasicSalary());
    int i = ps.executeUpdate();
       if (i == 1) {
         return true;
    } catch (SQLException ex) {
       ex.printStackTrace();
}
    return false;
```

```
} public boolean deleteTest(int id) throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
       Statement stmt = con.createStatement();
       int i = stmt.executeUpdate("delete * from empmaster where EmpId=" + id);
       if (i == 1) {
         return true;
     } catch (SQLException ex) {
    return false;
  } public ResultSet getTestAll() throws SQLException {
    Connection con = DataAccess.getConnection();
    try {
       Statement stmt = con.createStatement();
       ResultSet rs = stmt.executeQuery("SELECT * FROM empmaster ");
       if (rs.next()) {
         while (rs.next()) {
            return rs;
          }
    } catch (SQLException ex) {
       out.print(ex.toString());
    return null;
  }
}
```

EmpMaster.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="Pooja.EmpMaster"%>
<%@ page import="com.mysql.jdbc.Driver" %>
<%@ page import="java.sql.Connection" %>
<%@ page import="java.sql.SQLException" %>
<%@ page import="java.sql.Statement" %>
<%@ page import="java.sql.DriverManager" %>
<%@ page import="java.sql.DriverManager" %>
<%@ page import="java.sql.ResultSet" %>
<%! EmpMaster cm = new EmpMaster();%>
<%! ResultSet rs,rs1;%>
<%! int num, empId;
    String empname=" ";</pre>
```

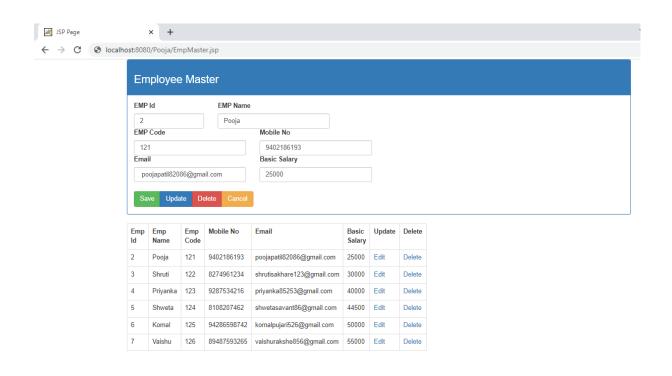
```
int empcode;
  String mobileno=" ";
  String email=" ";
  String basicsalary="";
  %>
<%! void getMaxtid() {
    try {
       rs = cm.getMaxid();
       num = rs.getInt(1);
     } catch (Exception ex) {
}
%>
<%
  if (request.getParameter("btnSave") != null) {
    cm.setEmpName(request.getParameter("txtempname"));
     cm.setEmpCode(Integer.parseInt(request.getParameter("txtempcode")));
     cm.setMobileNo(request.getParameter("txtmobileno"));
     cm.setEmail(request.getParameter("txtmailid"));
     cm.setBasicSalary(request.getParameter("txtsalary"));
     cm.insertempmaster(cm);
       out.print("<script>");
       out.print("alert('insert record successfully')");
       out.print("</script>");
       getMaxtid();
  }
  if (request.getParameter("btnUpdate")!= null) {
         cm.setEmpName(request.getParameter("txtempname"));
     cm.setEmpCode(Integer.parseInt(request.getParameter("txtempcode")));
     cm.setMobileNo(request.getParameter("txtmobileno"));
     cm.setEmail(request.getParameter("txtmailid"));
     cm.setBasicSalary(request.getParameter("txtsalary"));
     cm.updateempmaster(cm);
       out.print("<script>");
       out.print("alert('update record successfully')");
       out.print("</script>");
       getMaxtid();
  }
  if (request.getParameter("edit") != null) {
      try {
    int eid = Integer.parseInt(request.getParameter("edit"));
    ResultSet rs1=cm.getempmaster(eid);
    num = rs1.getInt(1);
```

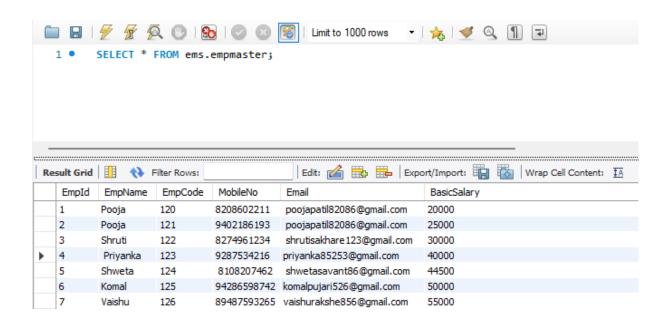
```
empname = rs1.getString(2);
    empcode=rs1.getInt(3);
    mobileno=rs1.getString(4);
    email=rs1.getString(5);
    basicsalary=rs1.getString(6);
     } catch (Exception ex) {
       out.println(ex);
     }
  }
  if (request.getParameter("delete") != null) {
    try {
        int id = Integer.parseInt(request.getParameter("delete"));
       out.print("<script>");
       out.print("alert('Delete record successfully')");
       out.print("</script>");
       cm.deleteTest(id);
     } catch (Exception ex) {
      out.println(ex);
     }
  }
%>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    link href="UL/css/bootstrap.css" rel="stylesheet" type="text/css"/>
    <script src="UL/jquery-3.6.0.min.js" type="text/javascript"></script>
    <script src="UL/js/bootstrap.js" type="text/javascript"></script>
     <title>JSP Page</title>
    </head>
<body>
   <form method="post" name="frmclass">
    <div class="container">
       <div class="col-md-12">
         <div class="panel panel-primary">
            <div class="panel-heading"> <h3> Employee Master </h3></div>
            <div class="panel-body">
              <div class="row">
                 <div class="col-md-2">
                   <label> Id </label>
      <input type="text" id="txtid" Name="txtid" value="<%=num%>" class="form-
control">
</div>
```

```
<div class="col-md-3">
 <label> Name</label>
 <input type="text" id="txtempname" Name="txtempname" value="<%=empname%>"
class="form-control">
</div>
</div>
   <div class="row">
    <div class="col-md-3">
    <label> Code</label>
    <input type="text" id="txtempcode" Name="txtempcode"</pre>
value="<%=empcode%>"class="form-control">
</div>
    <div class="col-md-3">
  <label>Mobile No</label>
  <input type="text" id="txtmobileno" Name="txtmobileno"
value="<%=mobileno%>"class="fo </div>
   </div>
 <div class="row">
    <div class="col-md-3">
     <label>Email</label>
    <input type="text" id="txtmailid" Name="txtmailid" value="<%=email%>"class="form-
control">
  </div>
  <div class="col-md-3">
    <label> Basic Salary</label>
        <input type="text" id="txtsalary" Name="txtsalary"</pre>
value="<%=basicsalary%>"class="form-control">
 </div>
</div>
 <div class="row"><br>
 <div class="col-md-12 btn-group">
 <input type="submit" value="Save" name="btnSave" id="btnSave" class="btn btn-</pre>
success">
                  <input type="submit" value="Update" name="btnUpdate"</pre>
id="btnUpdate" class="btn btn-primary">
                  <input type="submit" value="Delete" name="btnDelete" id="btnDelete"
class="btn btn-danger">
                  <input type="submit" value="Cancel" name="btnCancle" id="btnCancle"</pre>
class="btn btn-warning">
               </div>
             </div>
          </div>
      </div>
    </form>
 <div class="row form-group">
           <div class="col-md-6">
```

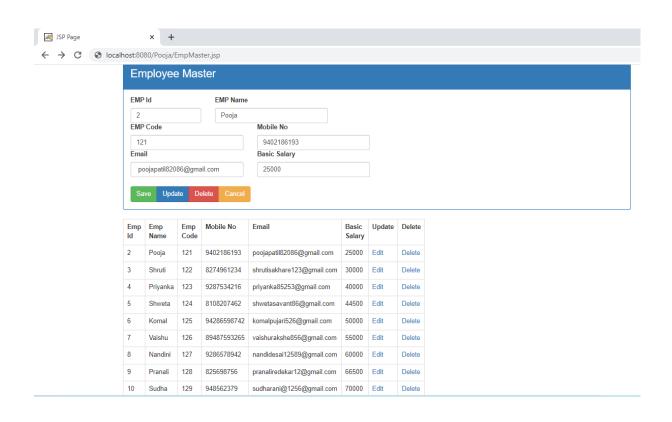
```
<th>Emp Id
               Emp Name
               Emp Code
               Mobile No
               Email
               Basic Salary
                Update
               Delete
             <%
               rs1 = cm.getempmaster();
               while (rs1.next()) {
             %>
                <%=rs1.getInt(1)%>
               <%=rs1.getString(2)%>
               <\mathref{t}d><\mathref{%}=\text{rs1.getInt(3)\mathref{%}}</\td>
               <%=rs1.getString(4)%>
               <%=rs1.getString(5)%>
               <\mathref{t}d><\mathref{%}=\text{rs1.getString(6)}\mathref{%}></\td>
                <a href="?edit=<%=rs1.getInt(1)%> ">Edit</a>
               <a href="?delete=<%=rs1.getInt(1)%> ">Delete</a>
             <%
                   }
             %>
           </div>
       </div>
      </div>
   </body>
</html>
```

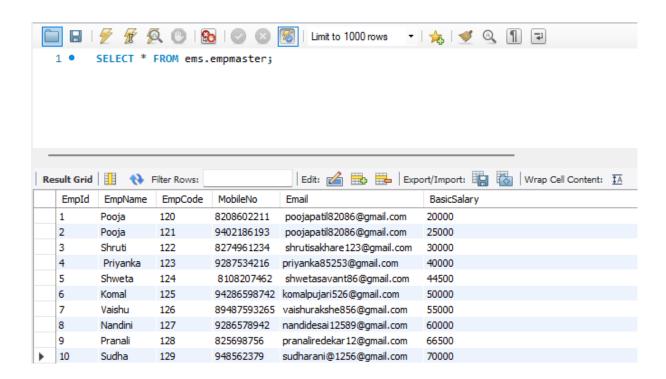
Insert Record:





Update Record:





Delete Record:

