

## CODES DEVELOPED FOR CRUD OPERATIONS

For the development of our web page we have written codes in front end i.e in Eclipse where we have written codes for Insert , Retrieve , Update , Delete. The Insert code helps us to insert a record of DRDL employee which are in turn stored in the database in the backend software i.e Oracle SQL Developer. The Retrieve code is used to access the records present in the database where we have inserted the records. It displays all the records present in the database. The Update code is used to update specific record in the database where the existing record is updated with the new record and saved in the database. Similarly, the Delete code is used to delete specific record in the database which also affects the table as a record gets deleted in the database. Now we will be seeing the codes written in Eclipse Software.

### CODES FOR INSERTING THE DETAILS OF AN EMPLOYEE

- **Code 1(Registration insert.jsp)**

[illegible]

```

        </font></b></p>
        <p align="center"></p>
        name="B1"><p align="center"><input type="submit" value="Submit"
        <p align="center"><input type="reset" value="Reset"
        name="B2"></p>
    </form>
</body>
</head>

```

- **Code 2(insert.jsp)**

 $\angle$ 

```
<center><a href="1_retrieve.jsp"><button>ALL  
RECORDS</button></a></center><br>
```

## CODE FOR VIEWING THE DETAILS OF AN EMPLOYEE

### Code 1: reg\_view.jsp

```
<%@ page import="java.sql.DriverManager"%>
<%@ page import="java.sql.Connection"%>
<%@ page import="java.sql.Statement"%>
<%@ page import="java.sql.ResultSet"%>
<%
String driver="oracle.jdbc.driver.OracleDriver";
String connectionUrl="jdbc:oracle:thin:@localhost:1521:xe";
String database="test";
String username="system";
String password="system";
try{
    Class.forName(driver);
}catch(Exception e){
    System.out.print(e);
    e.printStackTrace();
}
Statement st=null;
ResultSet rs=null;
Connection con=null;
int i=0;
%>
<html>
<body bgcolor="#66FF99">
<p align="center"><font face="Cambria" color="#800080"
style="font-size: 16pt">
<b>List of Employees registered for CIAG New
Internet</b></font></p>
<table border="1">
<tr>
<td width="167"><b><font color="#0000FF"
face="Cambria">First Name</font></b></td>
<td width="162"><b><font face="Cambria"
color="#0000FF">Last Name</font></b></td>
<td width="114"><b><font face="Cambria"
color="#0000FF">Designation</font></b></td>
<td width="180"><b><font face="Cambria"
color="#0000FF">
Directorate/Project</font></b></td>
<td width="108"><b><font face="Cambria"
color="#0000FF">Extension No</font></b></td>
```

```
<td width="105"><b><font face="Cambria"  
color="#0000FF">Mobile No</font></b></td>  
<td width="206"><b><font face="Cambria"  
color="#0000FF">E-mail Id (&nbs  
@gov.in)</font></b></td>  
</tr>  
<br>  
  
//String EXTENSION=request.getParameter("EXTENSION");  
try{  
    con=DriverManager.getConnection(connectionUrl,usernam  
e,password);  
    st=con.createStatement();  
    String s="select * from registration";  
    //String sql="select * from registration where  
EXTENSION='"+EXTENSION+"' ";  
    rs=st.executeQuery(s);  
    while(rs.next()){  
        String st5=rs.getString("Extension");  
        String st6=request.getParameter("Mobile");  
        String  
st7=request.getParameter("Email_id");  
  
        //out.println("<center><h2>You are  
Here</h2></center>");  
        //out.println(st5);  
  
        i++;  
    }  
}</tr>  
  
<td><font  
face="Cambria"><%out.print(rs.getString("first_name")); %></  
font></td>  
  
<td><font  
face="Cambria"><%out.print(rs.getString("last_name")); %></f  
ont></td>
```

```

        <td><font
face="Cambria"><%out.print(rs.getString("designation")); %>
</font></td>

        <td><font
face="Cambria"><%out.print(rs.getString("directorate")); %>
</font></td>

        <td><font
face="Cambria"><%out.print(rs.getString("extension")); %></f
ont></td>

        <td><font
face="Cambria"><%out.print(rs.getString("mobile_no")); %></f
ont></td>

        <td><font
face="Cambria"><%out.print(rs.getString("email_id")); %></fo
nt></td>

</tr>

        <%
        }

        con.close();

    }
    catch (Exception e) {
        System.out.print(e);
        e.printStackTrace();
    }
    %>
</table>
<br>
<a href="Display_page.htm"><center><button><font
face="Cambria" size="5" color="blue">Main
page</font></button></center></a>
</body>
</html>

```



## CODE FOR MODIFYING THE DETAILS OF AN EMPLOYEE

- Code 1(reg\_update.jsp)

```
<%@ page import="java.sql.DriverManager"%>
<%@ page import="java.sql.Connection"%>
<%@ page import="java.sql.Statement"%>
<%@ page import="java.sql.ResultSet"%>
<%
String driver="oracle.jdbc.driver.OracleDriver";
String connectionUrl="jdbc:oracle:thin:@localhost:1521:xe";
String database="test";
String username="system";
String password="system";
try{
    Class.forName(driver);
} catch (Exception e) {
    System.out.print(e);
    e.printStackTrace();
}

Statement st=null;
ResultSet rs=null;
Connection con=null;
int i=0;
%>
<html>
<body bgcolor="#FFCC99">

<p align="center"><font face="Cambria" color="#800080"
style="font-size: 16pt">
<b>Updation of Employees' details registered for CIAG New
Internet</b></font></p>

<table border="1">
<tr>
<td width="167"><b><font color="#0000FF"
face="Cambria">First Name</font></b></td>
<td width="162"><b><font face="Cambria"
color="#0000FF">Last Name</font></b></td>
<td width="114"><b><font face="Cambria"
color="#0000FF">Designation</font></b></td>
```

```
<td width="180"><b><font face="Cambria"
color="#0000FF">
Directorate/Project</font></b></td>
<td width="108"><b><font face="Cambria"
color="#0000FF">Extension No</font></b></td>
<td width="105"><b><font face="Cambria"
color="#0000FF">Mobile No</font></b></td>
<td width="206"><b><font face="Cambria"
color="#0000FF">E-mail Id (<div>
gov.in</div></font></b></td>
<td width="105"><b><font face="Cambria"
color="#0000FF"><div>Operations</div></font></b></td>
</tr>
<%

//String EXTENSION=request.getParameter("EXTENSION");
try{
    con=DriverManager.getConnection(connectionUrl, usernam
e,password);
    st=con.createStatement();
    String s="select * from registration";
    //String sql="select * from registration where
EXTENSION='"+EXTENSION+"' ";
    rs=st.executeQuery(s);
    while(rs.next()){
        String st5=rs.getString("Extension");
        String st6=request.getParameter("Mobile");
        String
        st7=request.getParameter("Email_id");

        //out.println("<center><h2>You are
Here</h2></center>");
        //out.println(st5);

        i++;
    }

    <td><font
face="Cambria"><%out.print(rs.getString("first_name"));%</font></td>
```

```
<td><font
face="Cambria"><%out.print(rs.getString("last_name"));%</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("designation"));%</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("directorate"));%</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("extension"));%</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("mobile_no"));%</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("email_id"));%</font></td>

<td><a
href="reg_modify.jsp?extension=<%=rs.getString("extension")
%>">Update</a></td>

</tr>

<%
}

con.close();
} catch (Exception e) {
    System.out.print(e);
```

```
e.printStackTrace();
}
%>
</table>
<br>
<a href="Display_page.htm"><center><button><font
face="Cambria" size="5" color="blue">Main
page</button></center></a>
</body>
</html>
```

- Code 2(reg\_modify.jsp)

[illegible][illegible][illegible]

```
<input type="reset" value="Reset" name="B2">  
<p align="center"></p>  
<%  
    i++;  
}%>  
<br>  
<a href="Display_page.htm"><center><button><font  
face="Cambria" size="5" color="blue">Main  
page</button></center></a>  
</body>  
</head>  
</html>
```

## ● Code 3(update.jsp)

```

<%@page import="java.sql.*"%>
<html>
<head>
<body>
<%
String driver="oracle.jdbc.driver.OracleDriver";
String connectionUrl="jdbc:oracle:thin:@localhost:1521:xe";
String database="test";
String username="system";
String password="system";
Statement st=null;
ResultSet rs=null;
Connection con=null;
try{
    Class.forName(driver);

con=DriverManager.getConnection(connectionUrl,username,password);
    st=con.createStatement();
} catch(Exception e){
    System.out.print(e);
    e.printStackTrace();
}
%>

<%
String st1=request.getParameter("FName");
String st2=request.getParameter("LName");
String st3=request.getParameter("Desn");
String st4=request.getParameter("Directorate");
String st5=request.getParameter("Ext");
String st6=request.getParameter("Mobile");
String st7=request.getParameter("Email_id");
try{
    con=DriverManager.getConnection(connectionUrl,username,password);
    st=con.createStatement();
    String s="update registration set
first_name='"+st1+"',last_name='"+st2+"',designation='"+st3
+ "',directorate='"+st4+"',mobile_no='"+st6+"',email_id='"+st7+"
where extension='"+st5+"'";
    int j=st.executeUpdate(s);
    out.println("Updated successfully!!!");
    con.close();
}
catch(Exception e)
{
    System.out.print(e);
    e.printStackTrace();
}%>
<br>
<a href="Display_page.htm"><center><button><font
face="Cambria" size="5" color="blue">Main
page</button></center></a>
</body>
</head>
</html>

```



## CODE FOR DELETING THE DETAILS OF AN EMPLOYEE

- Code 1 (k\_delete.jsp)

```

<%@ page import="java.sql.DriverManager"%>
<%@ page import="java.sql.Connection"%>
<%@ page import="java.sql.Statement"%>
<%@ page import="java.sql.ResultSet"%>
<%
String driver="oracle.jdbc.driver.OracleDriver";
String connectionUrl="jdbc:oracle:thin:@localhost:1521:xe";
String database="test";
String username="system";
String password="system";
try{
    Class.forName(driver);
}catch(Exception e){
    System.out.print(e);
    e.printStackTrace();
}

Statement st=null;
ResultSet rs=null;
Connection con=null;
int i=0;
%>
<html>
<body bgcolor="#CCCCFF">

<p align="center"><font face="Cambria" color="#800080"
style="font-size: 16pt">
<b>Deletion of Employees' details registered for CIAG New
Internet</b></font></p>

<table border="1">
<tr>
<td width="167"><b><font color="#0000FF"
face="Cambria">First Name</font></b></td>
<td width="162"><b><font face="Cambria"
color="#0000FF">Last Name</font></b></td>
<td width="114"><b><font face="Cambria"
color="#0000FF">Designation</font></b></td>

<td><font
face="Cambria"><%out.print(rs.getString("last_name"));%></font></td>

<td><font
face="Cambria"><%out.print(rs.getString("designation"));%>
</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("directorate"));%>
</font></td>

<td><font
face="Cambria"><%out.print(rs.getString("extension"));%></font></td>

<td><font
face="Cambria"><%out.print(rs.getString("mobile_no"));%></font></td>

<td><font
face="Cambria"><%out.print(rs.getString("email_id"));%></font></td>

<td><a
href="reg_delete.jsp?extension=<%=rs.getString("extension")%>">DELETE</a></td>

</tr>

<%
}

con.close();
}catch(Exception e){
    System.out.print(e);

```

- Code 2(reg\_delete.jsp)

```
<%@page import="java.sql.*,java.util.*"%>
<html>
<head>
<body bgcolor="#FFCC99">
<%
String extension=request.getParameter("extension");
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection conn =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:15
21:xe","system","system");
Statement st=conn.createStatement();
int i=st.executeUpdate("DELETE FROM REGISTRATION WHERE
extension='"+extension+"'");
out.println("Data Deleted Successfully!");
}
catch(Exception e)
{
System.out.print(e);
e.printStackTrace();
}
}%>
<br>
<a href="Display_page.htm"><center><button><font
face="Cambria" size="5" color="blue">Main
page</button></center></a>
</body>
</head>
</html>
```



## **CODES DEVELOPED FOR FRONT PAGE(User Interface)**

For the development of front page user interface of our web application we have developed codes for the banner of the web page, the operations page where the operations such as insert, retrieve, update and delete are present in the form of buttons and there is a display page where the output on clicking these buttons is displayed on it. We have created codes namely 'Frontpage.htm', 'banner.htm', 'Display\_page.htm', 'Operations\_page.htm'. We shall now look into the codes of how our web application is given a design.

- **Front page.htm**

```
<html>

<head>
<meta http-equiv="Content-Type" content="text/html;
charset=windows-1252">
<title>Front page</title>
<base target="_self">
</head>

<frameset framespacing="3" rows="220,*">
  <frame name="banner" scrolling="no" noresize
target="contents" src="banner.htm">
  <frameset cols="281,*">
    <frame name="contents" target="main"
src="Operations_page.htm" scrolling="auto">
    <frame name="main" src="Display_page.htm"
scrolling="auto" target="_self">
  </frameset>
</frameset>
<noframes>
<body>

  <p>This page uses frames, but your browser doesn't
support them.</p>

</body>
</noframes>
</frameset>

</html>
```

- **banner.htm**

```
<html>

<head>
<meta http-equiv="Content-Type" content="text/html;
charset=windows-1252">
<title>Advanced Numerical Research & Analysis Group
(ANURAG) </title>
<script type="text/javascript"
src="menu/stlib.js"></script>
<!-- <script type="text/javascript"
src="menu/stlib.js"></script>
<script type="text/javascript"
src="anuragXP.files/dtree.js"></script>-->
<style>
<!--
.style14 {color: #CC33FF}
.style16 {color: #FF9933}
-->
</style>
<base target="contents">
</head>

<body topmargin="0" leftmargin="0" bgcolor="#052736">

<div align="center">
<table border="0" cellpadding="0" cellspacing="0"
height="208" width="1255" bgcolor="#30539A">
<tr>
<td width="296" align="center">

<br>
<font color="#FFFF00"><b>
<span style="font-size: 8.0pt;
line-height: 115%">ISO
9001:2015
Certified</span></b></font>&nbsp;</td>
<td width="941">
<p align="center">
<b>
<font size="5" color="#FF5050">Defence
Research and Development
Laboratory (DRDL)</font></b><font size="5"
color="#FFFFFF"><b><br>
Directorate of Information Technology</b></font><font
size="5" color="#00CC00"><b><br>
Computer Network Division</b></font></td>
</tr>
</table>


```

- **Display\_page.htm**

```
<html>

<head>
<meta http-equiv="Content-Type" content="text/html;
charset=windows-1252">
<title>Display page</title>
<base target="_self">
</head>

<body bgcolor="yellow">
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<p align="center"><b><i><font face="Cambria" size="8"
color="blue">---WELCOME---</i></b></p>
<p align="center"><b><font face="Cambria" size="10"
color="blue">You are here</b></p>
</body>

</html>


```

- **Operations\_page.htm**

```
<html>

<head>
<meta http-equiv="Content-Type" content="text/html;
charset=windows-1252">
<base target="main">
</head>

<body bgcolor="#00FFFF">
<button style="width: 199; height: 32">
<a target="main"
href="Registration%20insert.jsp">INSERT</a></button>
<p> <button style="width: 199px; height: 33px">
<a target="main" href="1_retrieve.jsp">VIEW</a></button>
</p>
<p><button style="width: 200px; height: 32px">
<a target="main"
href="reg_update.jsp">MODIFY</a></button></p>
<p><br>
<button style="width: 201px; height: 28px"><a target="main"
href="k_delete.jsp">DELETE</a></button></p>
<p><br>

</p>

</body>

</html>
```