1602-19-737-010,1602-19-737-040

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DBMS ASSIGNMENT 2

UNIVERSITY DORMITORY ALLOTEMENT PORTAL

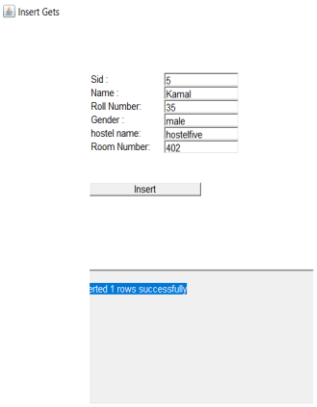
1.INSERTION

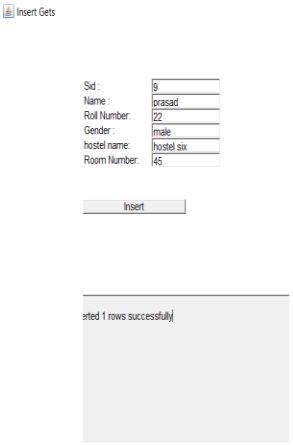
```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class insertstudent extends Frame
{
Button insertstudentButton;
TextField sid,sname,roll_number,gender,hostel_name,room_number;
TextArea errorText;
Connection connection;
Statement statement;
public insertstudent()
{
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
}
catch (Exception e)
{
System.err.println("Unable to find and load driver");
System.exit(1);
}
connectToDB();
}
public void connectToDB()
{
try
```

```
{
Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdbms","it19737040","vasavi");

statement = con.createStatement();
System.out.println("connected");
}
catch (SQLException e)
{
System.out.println(e);
}
}
public void buildGUI()
{

insertstudentButton = new Button("Insert");
insertstudentButton.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent e)
{
try
{

String query= "INSERT INTO student VALUES("+"'" +sid.getText() + "','" + sname.getText() + "','" +
roll_number.getText() + "','" +gender.getText() + "','" +hostel_name.getText()+ "','"
+room_number.getText() + "'" +")";
int i = statement.executeUpdate(query);
errorText.append("\nInserted " + i + " rows successfully");
}
catch (SQLException insertException)
{
displaySQLErrors(insertException);
```

```
}
}
});
sid = new TextField(15);
sname = new TextField(15);
roll_number = new TextField(15);
gender = new TextField(15);
hostel_name = new TextField(15);
room_number = new TextField(15);
errorText = new TextArea(10, 40);
errorText.setEditable(false);
Panel first = new Panel();
first.setLayout(new GridLayout(6, 2));
first.add(new Label("Sid : "));
first.add(sid);
first.add(new Label("Name : "));
first.add(sname);
first.add(new Label("Roll Number: "));
first.add(roll_number);
first.add(new Label("Gender : "));
first.add(gender);
first.add(new Label("hostel name: "));
first.add(hostel_name);
first.add(new Label("Room Number: "));
first.add(room_number);

first.setBounds(125,90,200,100);
Panel second = new Panel(new GridLayout(6, 1));
second.add(insertstudentButton);
second.setBounds(125,220,150,100);
Panel third = new Panel();
```

```
third.add(errorText);
third.setBounds(125,320,300,200);
setLayout(null);
add(first);
add(second);
add(third);
setTitle("Insert Gets");
setSize(500, 600);
setVisible(true);
}
private void displaySQLErrors(SQLException e)
{
errorText.append("\nSQLException: " + e.getMessage() + "\n");
errorText.append("SQLState: " + e.getSQLState() + "\n");
errorText.append("VendorError: " + e.getErrorCode() + "\n");
}

public static void main(String[] args)
{
insertstudent i = new insertstudent();
i.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
System.exit(0);
}
});
i.buildGUI();
}
}
```


Insert Gets
Sid :
5
Name :
Kamal
Roll Number:
35
Gender :
male
hostel name:
hostelfive
Room Number:
402
Insert
erted 1 rows successfully


Insert Gets
Sid :
9
Name :
prasad
Roll Number:
22
Gender :
male
hostel name:
hostel six
Room Number:
45
Insert
erted 1 rows successfully

2.UPDATE

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class updatestudent extends Frame
{
Button updatestudentButton;
List sidList;
TextField sidText,snameText,roll_numberText,genderText,hostel_nameText,room_numberText;
TextArea errorText;
Connection connection;
```

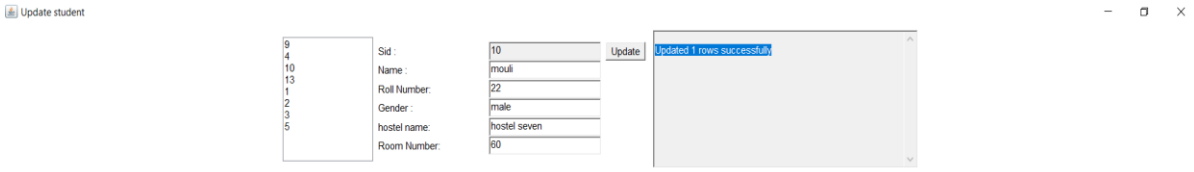
```
Statement statement;
ResultSet rs;
public updatestudent()
{
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
}
catch (Exception e)
{
System.err.println("Unable to find and load driver");
System.exit(1);
}
connectToDB();
}
public void connectToDB()
{
try
{
Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdbms","it19737040","vasavi");
statement = con.createStatement();
System.out.println("connected");
}
catch (SQLException e)
{
System.out.println(e);
}
}
private void loadstudent()
{
```

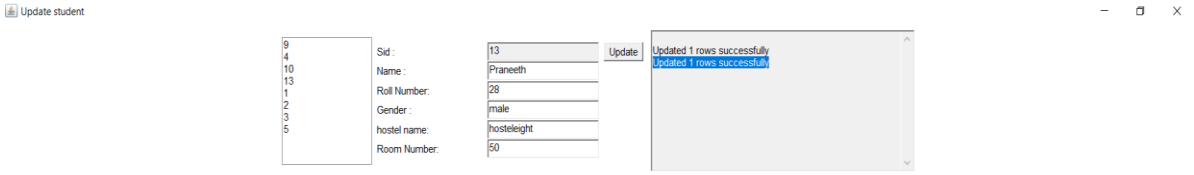
```
try
{
rs = statement.executeQuery("SELECT sid FROM student");
while (rs.next())
{
sidList.add(rs.getString("sid"));
}
}
catch (SQLException e)
{
displaySQLErrors(e);
}
}
public void buildGUI()
{
sidList = new List(10);
loadstudent();
add(sidList);
sidList.addItemListener(new ItemListener()
{
public void itemStateChanged(ItemEvent e)
{
try
{
rs = statement.executeQuery("SELECT * FROM student where sid ='"+sidList.getSelectedItem()+"'");
rs.next();
sidText.setText(rs.getString("sid"));
snameText.setText(rs.getString("sname"));
roll_numberText.setText(rs.getString("roll_number"));
genderText.setText(rs.getString("gender"));
hostel_nameText.setText(rs.getString("hostel_name"));
```

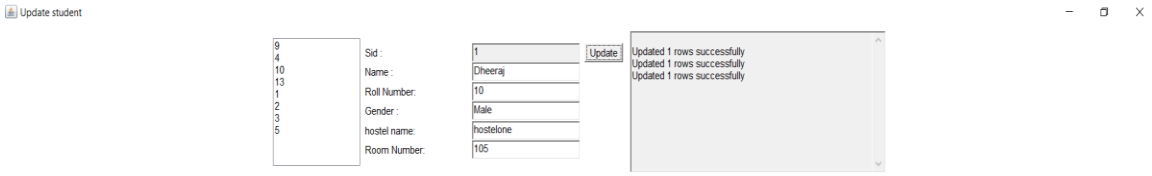
```
room_numberText.setText(rs.getString("room_number"));
}
catch (SQLException selectException)
{
displaySQLErrors(selectException);
}
}
});
updatestudentButton = new Button("Update");
updatestudentButton.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent e)
{
try
{

Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdbms","it19737040","vasavi");
Statement statement1 = con.createStatement();
int i = statement1.executeUpdate("UPDATE student "+ "SET sname='" + snameText.getText() + "', "+
"roll_number='" + roll_numberText.getText() + "', "+ "gender ='"+
genderText.getText()+"',"+"hostel_name='" +hostel_nameText.getText()+"',"+"room_number='"
+room_numberText.getText() + "' WHERE sid= '"+ sidList.getSelectedItem()+"'");
errorText.append("\nUpdated " + i + " rows successfully");
sidList.removeAll();
loadstudent();
}
catch (SQLException insertException)
{
displaySQLErrors(insertException);
}
}
```

```
});
sidText = new TextField(15);
sidText.setEditable(false);
snameText = new TextField(15);
roll_numberText = new TextField(15);
genderText = new TextField(15);
hostel_nameText = new TextField(15);
room_numberText = new TextField(15);
errorText = new TextArea(10, 40);
errorText.setEditable(false);
Panel first = new Panel();
first.setLayout(new GridLayout(6, 2));
first.add(new Label("Sid : "));
first.add(sidText);
first.add(new Label("Name : "));
first.add(snameText);
first.add(new Label("Roll Number: "));
first.add(roll_numberText);
first.add(new Label("Gender : "));
first.add(genderText);
first.add(new Label("hostel name: "));
first.add(hostel_nameText);
first.add(new Label("Room Number: "));
first.add(room_numberText);
Panel second = new Panel(new GridLayout(6, 1));
second.add(updatestudentButton);
Panel third = new Panel();
third.add(errorText);
add(first);
add(second);
add(third);
```

```
setTitle("Update student ");
setSize(500, 600);
setLayout(new FlowLayout());
setVisible(true);
}
private void displaySQLErrors(SQLException e)
{
errorText.append("\nSQLException: " + e.getMessage() + "\n");
errorText.append("SQLState: " + e.getSQLState() + "\n");
errorText.append("VendorError: " + e.getErrorCode() + "\n");
}
public static void main(String[] args)
{
updatestudent ups = new updatestudent();
ups.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
System.exit(0);
}
});
ups.buildGUI();
}
}
```


Update student
9
4
10
13
1
2
3
5
Sid :
Name :
Roll Number:
Gender :
hostel name:
Room Number:
10
mouli
22
male
hostel seven
60
Update
Updated 1 rows successfully


Update student
9
4
10
13
1
2
3
5
Sid :
Name :
Roll Number:
Gender :
hostel name:
Room Number:
13
Praneeth
28
male
hosteleight
50
Update
Updated 1 rows successfully
Updated 1 rows successfully



3.DELETE

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class deletestudent extends Frame
{
Button deletestudentButton;
List sidList;
TextField sidText,snameText,roll_numberText,genderText,hostel_nameText,room_numberText;
TextArea errorText;
Connection connection;
Statement statement;
ResultSet rs;
public deletestudent()
{
try
{
Class.forName("oracle.jdbc.driver.OracleDriver");
}
catch (Exception e)
```

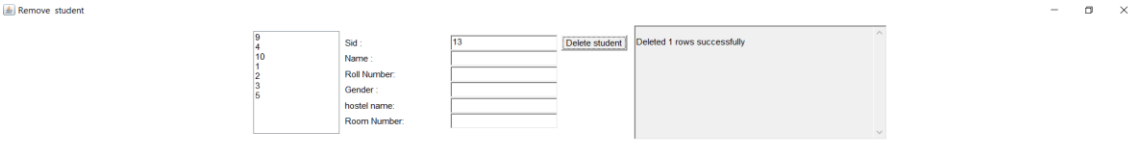
```
{
System.err.println("Unable to find and load driver");
System.exit(1);
}
connectToDB();
}
public void connectToDB()
{
try
{
Connection con =
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdbms","it19737040","vasavi");
statement = con.createStatement();
System.out.println("connected");
}
catch (SQLException e)
{
System.out.println(e);
}
}
private void loadstudent()
{
try
{
rs = statement.executeQuery("SELECT * FROM student");
while (rs.next())
{
sidList.add(rs.getString("sid"));
}
}
catch (SQLException e)
```

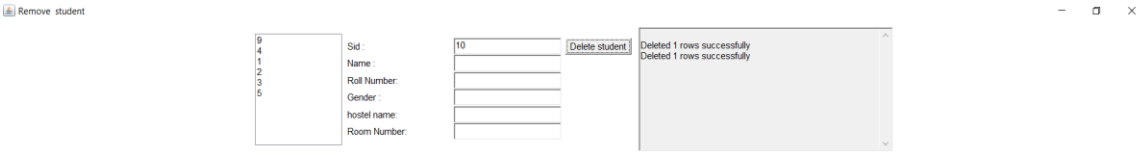
```
{
displaySQLErrors(e);
}
}
public void buildGUI()
{
sidList = new List(10);
loadstudent();
add(sidList);
sidList.addItemListener(new ItemListener()
{
public void itemStateChanged(ItemEvent e)
{
try
{
rs = statement.executeQuery("SELECT * FROM student where sid ='"+sidList.getSelectedItem()+"'");
while (rs.next())
{
if
(rs.getString("sid").equals(sidList.getSelectedItem()))
break;
}
if (!rs.isAfterLast())
{
sidText.setText(rs.getString("sid"));
snameText.setText(rs.getString("sname"));
roll_numberText.setText(rs.getString("roll_number"));
genderText.setText(rs.getString("gender"));
hostel_nameText.setText(rs.getString("hostel_name"));
room_numberText.setText(rs.getString("room_number"));
}
```

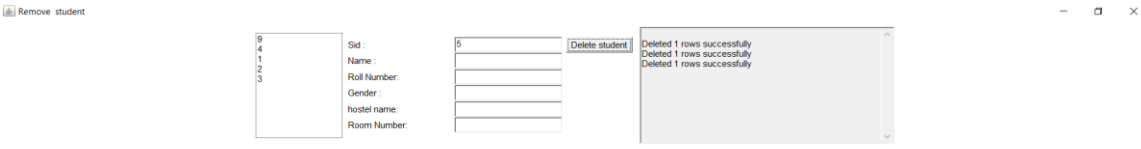
```
}
catch (SQLException selectException)
{
displaySQLErrors(selectException);
}
}
});
deletestudentButton = new Button("Delete student");
deletestudentButton.addActionListener(new ActionListener()
{
public void actionPerformed(ActionEvent e)
{
try
{
Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdbms","it19737040","vasavi");
Statement statement1 = con.createStatement();
int i = statement1.executeUpdate("DELETE FROM student WHERE sid =
'"+sidList.getSelectedItem()+"' and sname='"+snameText.getText()+"' and
roll_number='"+roll_numberText.getText()+"' and gender ='"+genderText.getText()+"' and
hostel_name='"+hostel_nameText.getText()+"' and
room_number='"+room_numberText.getText()+"'");
errorText.append("\nDeleted " + i + " rows successfully");
snameText.setText(null);
roll_numberText.setText(null);
genderText.setText(null);
hostel_nameText.setText(null);
room_numberText.setText(null);
sidList.removeAll();
loadstudent();
}
catch (SQLException insertException)
{
```

```
displaySQLErrors(insertException);
}
}
});
sidText = new TextField(15);
snameText = new TextField(15);
roll_numberText = new TextField(15);
genderText = new TextField(15);
hostel_nameText = new TextField(15);
room_numberText = new TextField(15);
errorText = new TextArea(10, 40);
errorText.setEditable(false);
Panel first = new Panel();
first.setLayout(new GridLayout(6, 2));
first.add(new Label("Sid : "));
first.add(sidText);
first.add(new Label("Name : "));
first.add(snameText);
first.add(new Label("Roll Number: "));
first.add(roll_numberText);
first.add(new Label("Gender : "));
first.add(genderText);
first.add(new Label("hostel name: "));
first.add(hostel_nameText);
first.add(new Label("Room Number: "));
first.add(room_numberText);
Panel second = new Panel(new GridLayout(6, 1));
second.add(deletestudentButton);
Panel third = new Panel();
third.add(errorText);
add(first);
```

```
add(second);
add(third);
setTitle("Remove  student ");
setSize(450, 600);
setLayout(new FlowLayout());
setVisible(true);
}
private void displaySQLErrors(SQLException e)
{
errorText.append("\nSQLException: " + e.getMessage() + "\n");
errorText.append("SQLState: " + e.getSQLState() + "\n");
errorText.append("VendorError: " + e.getErrorCode() + "\n");
}
public static void main(String[] args)
{
deletestudent del = new deletestudent();
del.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
System.exit(0);
}
});
del.buildGUI();
}
}
```


Remove student
9
4
10
1
2
3
5
Sid :
Name :
Roll Number:
Gender :
hostel name:
Room Number:
13
Delete student
Deleted 1 rows successfully


Remove student
9
4
1
2
3
5
Sid :
Name :
Roll Number:
Gender :
hostel name:
Room Number:
10
Delete student
Deleted 1 rows successfully
Deleted 1 rows successfully


Remove student
9
4
1
2
3
Sid :
Name :
Roll Number:
Gender :
hostel name:
Room Number:
5
Delete student
Deleted 1 rows successfully
Deleted 1 rows successfully
Deleted 1 rows successfully