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REG.NO: 20BCE1058

JAVA DA-3:

CONNECTING TO MYSQL USING JAVAFX:

PROGRAM:

Javafxstu.java

```
package javafxstu;
import java.sql.*;
import javafx.application.Application;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.Scene;
import javafx.scene.control.Button;

import javafx.stage.Stage;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;

import javafx.geometry.Insets;
import java.lang.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.DefaultComboBoxModel;
/**
 *
 * @author patri
 */
public class Javafxstu extends Application {

    String[][] arr = new String[10][5];
    int i=0;
    @Override
    public void start(Stage primaryStage) {
        String conString = "jdbc:mysql://localhost:3306/patri";
        String username = "root";
        String password = "UtcL664+";
        Button save = new Button();
        save.setText("SAVE");
        Button b1=new Button();
```

```

b1.setText("<<");
Button b2=new Button();
b2.setText(">>");
Button b3=new Button();
b3.setText("Search");
Label l1=new Label("First Name: ");
Label l2= new Label("Last Name: ");
Label l3=new Label("Gender: ");
Label l4= new Label("Reg. No: ");
Label l5=new Label("Branch: ");
Label l6=new Label("Search Reg No: ");
Label l7=new Label("");
Label l8=new Label("");
Label l9=new Label("");
Label l10=new Label("");
Label l11=new Label("");
Label l12=new Label("");
Label l13=new Label("");
Label l14=new Label("");
Label l15=new Label("");
Label l16=new Label("");
TextField t1=new TextField("");
TextField t2=new TextField("");
TextField t3=new TextField("");
TextField t4=new TextField("");
TextField t5=new TextField("");
TextField t6=new TextField("");

HBox h1=new HBox();
h1.getChildren().addAll(l6,t1,b3);
HBox h2=new HBox();
h1.setSpacing(10);
h2.getChildren().addAll(l1,t2);
HBox h3=new HBox();
h3.getChildren().addAll(l2,t3);
HBox h4=new HBox();
h4.getChildren().addAll(l3,t5);
HBox h5=new HBox();
h4.setSpacing(10);
h5.getChildren().addAll(l4,t4);
HBox h6=new HBox();
h6.getChildren().addAll(l5,t6);
HBox h7=new HBox();
h7.getChildren().addAll(b1,save,b2);
h7.setSpacing(10);
HBox h8=new HBox();
h8.getChildren().addAll(l12,l13,l14,l15,l16);
h8.setSpacing(30);

```

```

HBox h9=new HBox();
h9.getChildren().addAll(17,18,19,110,111);
h9.setSpacing(45);
VBox v=new VBox();

v.getChildren().addAll(h1,h2,h3,h4,h5,h6,h7,h8,h9);
v.setPadding(new Insets(10,50,50,50));
v.setSpacing(20);
Scene scene = new Scene(v, 680, 600);
save.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent e)
    {
        //firstname,lastname,gender,reg.no,branch

        try
        {
            System.out.println("connecting to the data
source.....");

            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/patri","root","Ut
cL664+");

            PreparedStatement ps = con.prepareStatement("insert
into student values (?,?,,?,?)");
            ps.setString(1, t2.getText());
            ps.setString(2,t3.getText());
            ps.setString(3, t5.getText());
            ps.setString(4,t4.getText());
            ps.setString(5, t6.getText());

            int count = ps.executeUpdate();
            System.out.println(count + " Number of records
inserted");

            con.close();
        }
        catch(Exception ea){ System.out.println(ea);}
    }

});
try
{
    String query ="select * from student;";
    Connection Conn = DriverManager.getConnection(conString,
username, password);
    PreparedStatement s=Conn.prepareStatement(query);
    ResultSet rs=s.executeQuery();
    while(rs.next())

```

```

        {
            l12.setText("Firstname");
            l13.setText("Lastname");
            l14.setText("Gender");
            l15.setText("Regno");
            l16.setText("Branch");
            arr[i][0]=rs.getString("firstname");
            arr[i][1]=rs.getString("lastname");
            arr[i][2]=rs.getString("gender");
            arr[i][3]=rs.getString("regno");
            arr[i][4]=rs.getString("branch");
            i++;
        }

        Conn.close();
    }

    catch (Exception ex)
    {
        //return false;
        System.out.println(ex);
    }
    b3.setOnAction(new EventHandler<ActionEvent>(){
        @Override
        public void handle(ActionEvent e)
        {
            int ij=0;

            while(ij<i)
            {

                if(t1.getText().equalsIgnoreCase(arr[ij][3]))
                {
                    l17.setText(arr[ij][0]);
                    l18.setText(arr[ij][1]);
                    l19.setText(arr[ij][2]);
                    l110.setText(arr[ij][3]);
                    l111.setText(arr[ij][4]);
                    i=ij;
                    break;
                }

                ij++;
            }
        }
    });
}
});

```

```

b1.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent e)
    {
        if(i>0){
            i--;
            t2.setText(arr[i][0]);
            t3.setText(arr[i][1]);
            t5.setText(arr[i][2]);
            t4.setText(arr[i][3]);
            t6.setText(arr[i][4]);
            l7.setText(arr[i][0]);
            l8.setText(arr[i][1]);
            l9.setText(arr[i][2]);
            l10.setText(arr[i][3]);
            l11.setText(arr[i][4]);

        }
    }
});
b2.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent e)
    {
        i++;
        t2.setText(arr[i][0]);
        t3.setText(arr[i][1]);
        t5.setText(arr[i][2]);
        t4.setText(arr[i][3]);
        t6.setText(arr[i][4]);
        l7.setText(arr[i][0]);
        l8.setText(arr[i][1]);
        l9.setText(arr[i][2]);
        l10.setText(arr[i][3]);
        l11.setText(arr[i][4]);

    }
});
primaryStage.setTitle("STUDENTS INFO");
primaryStage.setScene(scene);
primaryStage.show();
}

/**
 * @param args the command line arguments

```

```
    */  
    public static void main(String[] args) {  
        launch(args);  
    }  
}
```

Conn.java

```
package javafxstu;  
  
import java.sql.*;  
  
public class Conn{  
    Connection c;  
  
    public Conn(){  
        try{  
            Class.forName("com.mysql.jdbc.Driver");  
            c  
=DriverManager.getConnection("jdbc:mysql://localhost:3306/patri","root","UtcL6  
64+");  
  
        }catch(Exception e){  
            System.out.println(e);  
        }  
    }  
}
```

OUTPUT:

STUDENTS INFO



Search Reg No:

First Name:

Last Name:

Gender:

Reg. No:

Branch:

Firstname Lastname Gender Regno Branch

INSERTING A VALUE:

STUDENTS INFO

Search Reg No:

Search

First Name:

Siddhesh

Last Name:

Vikas

Gender:

Male

Reg. No:

20BCE1448

Branch:

CSE

<<

SAVE

>>

Firstname

Lastname

Gender

Regno

Branch

DATABASE:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

patri

Tables

student

Columns

firstname

lastname

gender

regno

branch

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

patrick

sys

Administration Schemas

Information

Schema: patri

Query 1 x

Limit to 1000 rows

```

1 • create database patri;
2 • use patri;
3 • select * from student;

```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

	firstname	lastname	gender	regno	branch
▶	Patrick	Raja	Male	20BCE1058	CSE
	Aldrin	Hudson	Male	20BCE1250	CSE
	Priya	Dharshan	Male	20BCE1489	CSE
	Shri	Varshan	Male	20BCE1563	CSE
	Siddhesh	Vikas	Male	20BCE1448	CSE

Form Editor

Field Types

student 7 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 5	12:26:11	select * from student LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓ 6	12:26:15	select * from student LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓ 7	12:42:57	select * from student LIMIT 0, 1000	1 row(s) returned	0.062 sec / 0.000 sec
✓ 8	18:56:44	select * from student LIMIT 0, 1000	3 row(s) returned	0.250 sec / 0.000 sec
✓ 9	19:17:03	select * from student LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.047 sec
✓ 10	19:41:00	select * from student LIMIT 0, 1000	5 row(s) returned	0.046 sec / 0.000 sec

Object Info Session

PREVIOUS DATA:

STUDENTS INFO

Search Reg No:

Search

First Name:

Priya

Last Name:

Dharshan

Gender:

Male

Reg. No:

20BCE1489

Branch:

CSE

<<

SAVE

>>

Firstname	Lastname	Gender	Regno	Branch
Priya	Dharshan	Male	20BCE1489	CSE

NEXT DATA:

STUDENTS INFO

Search Reg No:

Search

First Name:

Shri

Last Name:

Varshan

Gender:

Male

Reg. No:

20BCE1563

Branch:

CSE

<<

SAVE

>>

Firstname	Lastname	Gender	Regno	Branch
Shri	Varshan	Male	20BCE1563	CSE

SEARCH DATA:

STUDENTS INFO



Search Reg No:

First Name:

Last Name:

Gender:

Reg. No:

Branch:

Firstname	Lastname	Gender	Regno	Branch
Patrick	Raja	Male	20BCE1058	CSE