

**JAVA AWT BASED- FOREX TRADING DATABASE
SYSTEM -SQL CONNECTIVITY USING JDBC**

A

Report

Submitted in partial fulfilment of the

BE 1V SEMESTER DATABASE MANAGEMENT SYSTEM

INFORMATION TECHNOLOGY

By

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Under the guidance of

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BONAFIDE CERTIFICATE

This is to certify that the project report titled “**Forex Trading Database System**” project work of **Mrs.K.Hema** bearing Roll.no:**1602-18-737-071** who carried out this project under the guidance of **B.Leelavathy** during IV semester for the academic year **2019-2020**.

External Examiner

Internal Examiner

B.Leelavathy

Assistant professor

Department of Information Technology

ABSTRACT

This is project “**Forex Trading database systems**” is: It is a global decent. The foreign exchange (forex) market is the largest and most sophisticated market in the world for currency exchange. Forex trading takes place not on a centralized exchange as in the case of options, stock or futures, but through a wide variety of fx brokers. Nonetheless, money transfer comparison websites offer the most comprehensive and useful information you can find on the web. They do the legwork for you: they research the trends and the market, they compare exchange rates and brokers and list the best results based on your instructions. With all the information gathered, we only have to choose the best exchange rates.

This project help us to know how forex trading happens using database systems.

DBMS Assignment 2

Title: Forex Trading Database System

INTRODUCTION

A) REQUIREMENT ANALYSIS FOR FOREX TRADING DATABASE SYSTEM

List of Tables:

- Login
- Account
- transactions
- trade
- request_transaction
- does_trading
- customers_account

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List of attributes with their domain types:

ENTITY	ATTRIBUTES	DOMAIN
Login	Customer id user name password customer name contact address	NUMBER(10) VARCHAR(15) NUMBER(10) VARCHAR(15) NUMBER(10) NUMBER(10)
does_trading	since	NUMBER(10)
Customers_account	since	NUMBER(10)
Transaction	Transaction id currency of	NUMBER(15) VARCHAR(15)
Account	Account id account type balance balance type	NUMBER(15) VARCHAR(15) NUMBER(20) VARCHAR(20)
Trade	Trading id adminstrator contact currency to address	NUMBER(10) VARCHAR(20) NUMBER(10) VARCHAR(15) NUMBER(15)
Request_Transaction	date	NUMBER(10)

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B) AIM OF THE PROJECT

To create a Java GUI based form for the project Forex Trading Database Management System which takes the values like : Trade ID, contact ID, address, currency, administrator from the customer. These are the values to be updated in the database using JDBC connectivity. The values entered (insertion, deletion, updation) by the user for the respective table in GUI should be updated in the database using JDBC.

C) ARCHITECTURE AND TECHNOLOGY USED

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL*Plus.

SQL PLUS is the most basic Oracle Database utility with a basic command-line interface, commonly used by users, administrators and programmers.

The interface of SQL Plus is used for creating the database. DDL and DML commands are implemented for operations being executed. The details of students, their logins, quiz, score are stored in the form of tables in the database.

Eclipse is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug-in system for customizing the environment. Eclipse is written mostly in Java and its primary use is for developing Java applications, but it may also be used to develop applications in other programming languages via plug-ins, including Erlang, JavaScripts etc.

The front end application code is written in "Java" using Eclipse. The portal for front end application is designed through Eclipse, runs and has the capacity to connect with the database which has data inserted using SQL.

Java AWT (Abstract Window Toolkit) is an API to develop GUI or window based applications in Java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS.

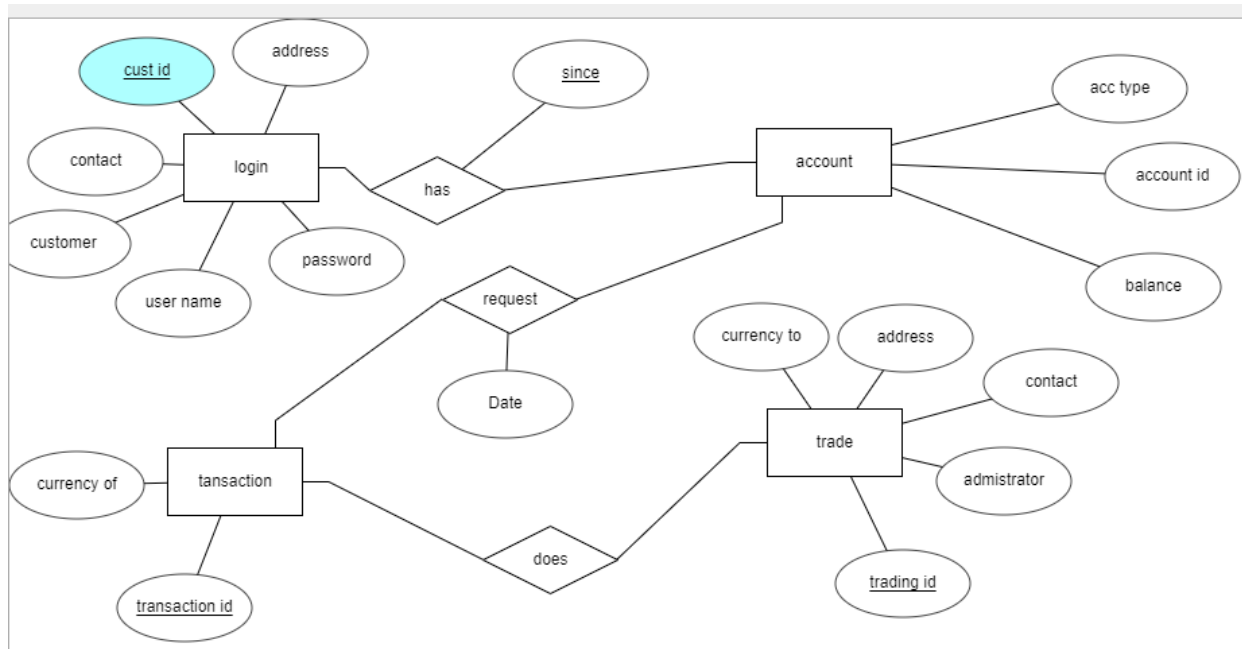
The java.awt package provides classes for AWT API such as TextField, Label, TextArea, RadioButton, CheckBox, Choice, List etc.

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D)ER Diagram:



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JAVA-SQL Connectivity using JDBC

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

JDBC Connectivity

```
private void connToDb(){ try {  
    Class.forName("oracle.jdbc.driver.OracleDriver");  
    connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1522:xe","hema","vasavi ");  
    statement = connection.createStatement();  
}  
    catch (SQLException connectException)  
    {  
        System.out.println(connectException.getMessage()); System.out.println(connectException.getSQLState());  
        System.out.println(connectException.getErrorCode());  
        System.exit(1);  
    }  
    catch (Exception e)  
    {  
        System.err.println("Unable to find and load driver");  
        System.exit(1);  
    }  
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

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E) IMPLEMENTATION

Below is the code for the table Trade

Insert Trade:

```
import java.awt.*;
import java.awt.event.*
import java.sql.*;
public class InsertTrade extends Frame
{
    Button insertTradeButton;
    TextField tridText, contactText, administratorText, currencytoText,addressText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    public InsertTrade()
    {
        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
```

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```
                errorText.append("\nInserted " + i + " rows successfully");
            }
            catch (SQLException insertException)
            {Frame f=new Frame();
OptionPane.showMessageDialog(f,"enter correct values");
                displaySQLExceptions(insertException);
            }
        }
    });
    tridText = new TextField(15);
    administratorText = new TextField(15);
    contactText = new TextField(100);

    currencytoText = new TextField(100);
    addressText = new TextField(100);
    errorText = new TextArea(10, 40);
    errorText.setEditable(false);

    Panel first = new Panel();
    first.setLayout(new GridLayout(6,3));
    first.add(new Label("Trade ID:"));
    first.add(tridText);
    first.add(new Label("Adminstrator"));
    first.add(administratorText);
    first.add(new Label("contact"));
    first.add(contactText);
    first.add(new Label("currency to"));
    first.add(currencytoText);
    first.add(new Label("address:"));
    first.add(addressText);
```

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```
        first.setBounds(125,90,200,100);

        Panel second = new Panel(new GridLayout(4,1));
        second.add(insertTradeButton);
        second.setBounds(125,220,150,100);

        Panel third = new Panel(new GridLayout(4,1))
third.add(errorText);

        third.setBounds(125,320,300,200);
        setLayout(null);
        add(second);
        add(third);

        setTitle("New Trade Creation");
        setSize(500, 600);
        setVisible(true);

    }

    private void displaySQLExceptions(SQLException e)
    {
        errorText.append("\nSQLException: " + e.getMessage() + "\n");
        errorText.append("SQLState:    " + e.getSQLState() + "\n");
        errorText.append("VendorError: " + e.getErrorCode() + "\n");
    }

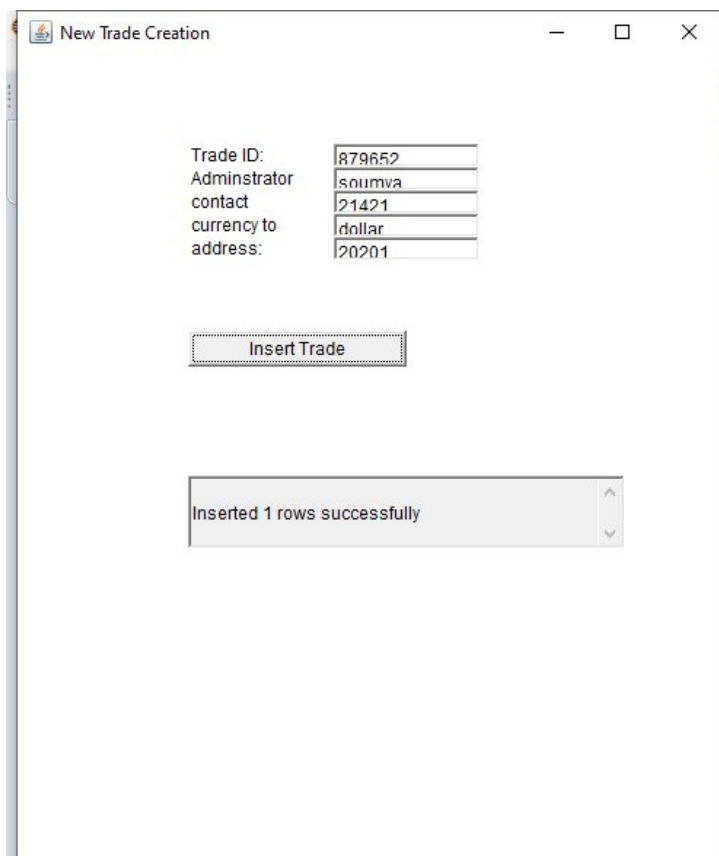
    public static void main(String[] args)
    {
        InsertTrade itrade = new InsertTrade();

        itrade.addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent e)
            {
```

DBMS Assignment 2

Title: Forex Trading Database System

```
        System.exit(0);  
    }  
});  
itrade.buildGUI()
```



The screenshot shows a window titled "New Trade Creation" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there is a form with five labeled text input fields arranged vertically:

- Trade ID: 879652
- Administrator: sniumva
- contact: 21421
- currency to: dollar
- address: 20201

Below these fields is a button labeled "Insert Trade". At the bottom of the window, there is a message box with the text "Inserted 1 rows successfully" and up/down arrow icons on the right side.

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Run SQL Command Line

SQL*Plus: Release 11.2.0.2.0 Production on Fri Apr 24 23:31:57 2020

Copyright (c) 1982, 2010, Oracle. All rights reserved.

SQL> conn hema;

Enter password:

Connected.

SQL> select *from trade;

TRID	ADMINISTRATOR	CONTACT	CURRENCYTO	ADDRESS
12345785	revathi	675899590	dollars	6-60
133126	prathima	9381454667	dollars	7-70
311326	varshitha	9912825524	dollars	6-60
6743567	thanuja	9010688988	dollars	4-40
2345667	karthik	9640410710	dollars	5-50
654321	preetham	9356457831	dollars	2-20
879652	soumya	21421	dollar	20201

7 rows selected.

SQL> _

DBMS Assignment 2

Title: Forex Trading Database System

UPDATE TRADE:

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;

public class UpdateTrade extends Frame
{
    Button updateTradeButton;
    List TradeIDList;
    TextField tridText, administratorText,contactText, currencyToText,addressText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    ResultSet rs;
    public UpdateTrade()
    {
        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()
    {

```

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DBMS Assignment 2

Title: Forex Trading Database System

```
        try
        {
            connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","hema","vasavi");
            statement = connection.createStatement();

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
System.exit(1);
        }
    }

    private void loadTrade()
    {
        try
        {
            rs = statement.executeQuery("SELECT TRID FROM TRADE");
            while (rs.next())
            {
                TradeIDList.add(rs.getString("TRID"));
            }
        }
        catch (SQLException e)
        {
            displaySQLErrors(e);
        }
    }
}
```

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DBMS Assignment 2

Title: Forex Trading Database System

```
public void buildGUI()
{
    TradeIDList = new List(10);

    loadTrade();

    add(TradeIDList);

    //When a list item is selected populate the text fields
    TradeIDList.addItemListener(new ItemListener()
    {
        public void itemStateChanged(ItemEvent e)
        {
            try{
                rs = statement.executeQuery("SELECT * FROM TRADE where TRID
= '"+TradeIDList.getSelectedItem()+"'");

                rs.next();
                tridText.setText(rs.getString("TRID"));
                administratorText.setText(rs.getString("ADMINISTRATOR"));
                contactText.setText(rs.getString("CONTACT"));
                currencyToText.setText(rs.getString("CURRENCYTO"));
                addressText.setText(rs.getString("ADDRESS"));

            }
            catch (SQLException selectException)
            {
                displaySQLErrors(selectException);
            }
        }
    });
}
```

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Title: Forex Trading Database System

```
//Handle Update Sailor Button+""");

updateTradeButton = new Button("Update Trade");
updateTradeButton.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent e)
    {
        try
        {
            Statement statement = connection.createStatement();
            int i = statement.executeUpdate("UPDATE TRADE "
            + "SET administrator=" + administratorText.getText() + ", "
            + "contact=" + contactText.getText() + ", " +
            "currencyto = " + currencyToText.getText() + ","
            + "address=" + addressText.getText() +
            ""where trid=" + TradeIDList.getSelectedItem()+""");
            errorText.append("\nUpdated " + i + " rows
successfully");

            TradeIDList.removeAll();
            loadTrade();
        }
        catch (SQLException insertException)
        {
            displaySQLErrors(insertException);
        }
    }
});
```

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DBMS Assignment 2

Title: Forex Trading Database System

```
tridText = new TextField(15);
tridText.setEditable(false);

    administratorText = new TextField(15);
    contactText = new TextField(15);
    {
        currencyToText = new TextField(15);
        addressText = new TextField(15);

        errorText = new TextArea(10, 40);
        errorText.setEditable(false);

        Panel first = new Panel();
        first.setLayout(new GridLayout(4, 2));
        first.add(new Label("Trade Id:"));

        first.add(tridText);
        first.add(new Label("administrator:"));
        first.add(administratorText);
        first.add(new Label("Contact:"));
        first.add(contactText);
        first.add(new Label("currency to:"));
        first.add(currencyToText);

        Panel second = new Panel(new GridLayout(4, 1));
        second.add(updateTradeButton);

        Panel third = new Panel();
        third.add(errorText);

        add(first);
```

DBMS Assignment 2

Title: Forex Trading Database System

```
        add(second);
        add(third);

        setTitle("Update Trade");

        setSize(500, 600);
        setLayout(new FlowLayout());
        setVisible(true);
    }

    private void displaySQLExceptions(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)
    {
        UpdateTrade uTrade = new UpdateTrade();

        uTrade.addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });

        uTrade.buildGUI();
    }
```

DBMS Assignment 2
Title: *Forex Trading Database System*

}

133126
311326
654321
879652
2345667
6743567
12345785

Trade Id: 133126
administrator: manasa
Contact: 9381454667
currency to: dollars

Update Trade

Updated 1 rows successfully

DBMS Assignment 2

Title: Forex Trading Database System

{

```
Run SQL Command Line
Connected.
SQL> select *from trade;

-----
TRID ADMINISTRATOR      CONTACT CURRENCYTO ADDRESS
-----
12345785 revathi        675899590 dollars 6-60
133126 prathima        9381454667 dollars 7-70
311326 varshitha       9912825524 dollars 6-60
6743567 thanuja        9010688988 dollars 4-40
2345667 karthik        9640410710 dollars 5-50
654321 preetham        9356457831 dollars 2-20
879652 soumya         21421 dollar 20201
-----
7 rows selected.

SQL> select *from trade;

-----
TRID ADMINISTRATOR      CONTACT CURRENCYTO ADDRESS
-----
12345785 revathi        675899590 dollars 6-60
133126 manasa          9381454667 dollars 7-70
311326 varshitha       9912825524 dollars 6-60
6743567 thanuja        9010688988 dollars 4-40
2345667 karthik        9640410710 dollars 5-50
654321 preetham        9356457831 dollars 2-20
879652 soumya         21421 dollar 20201
-----
7 rows selected.

SQL> _
```

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DBMS Assignment 2

Title: Forex Trading Database System

DELETE TRADE:

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;

public class DeleteTrade extends Frame
{
    Button deleteTradeButton;

    List TradeIDList;
    TextField tridText, administratorText, contactText, currencytoText,addressText;
    TextArea errorText;
    Connection connection;
    Statement statement;
    ResultSet rs;

    public DeleteTrade() {
        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()
```

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DBMS Assignment 2

Title: Forex Trading Database System

```
{
    try
    {
        connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "hema", "vasavi");

        statement = connection.createStatement();

    }
    catch (SQLException connectException)
{
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}

private void loadTrade()
{
    try
    {
        rs = statement.executeQuery("SELECT * FROM TRADE");
        while (rs.next())
        {
            TradeIDList.add(rs.getString("TRID"));
        }
    }
    catch (SQLException e)
    {
        displaySQLErrors(e);
    }
}
```

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DBMS Assignment 2

Title: Forex Trading Database System

```
    }
}

public void buildGUI()
{
    TradeIDList = new List(10);

    loadTrade();

    add(TradeIDList);

    {

        //When a list item is selected populate the text fields
        TradeIDList.addItemListener(new ItemListener()
        {

            public void itemStateChanged(ItemEvent e)
            {

                try
                {

                    rs = statement.executeQuery("SELECT * FROM trade");
                    while (rs.next())
                    {

                        if (rs.getString("TRID").equals(TradeIDList.getSelectedItem()))
                        break;

                    }

                    if (!rs.isAfterLast())
                    {

                        tridText.setText(rs.getString("TRID"));
                        administratorText.setText(rs.getString("ADMINISTRATOR"));
                        contactText.setText(rs.getString("CONTACT"));
                        currencytoText.setText(rs.getString("CURRENCYTO"));
                        addressText.setText(rs.getString("ADDRESS"));
                    }
                }
            }
        });
    }
}
```

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Title: Forex Trading Database System

```
        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
}

});

{

    //Handle Delete Sailor Button

    deleteTradeButton = new Button("Delete trade");
    deleteTradeButton.addActionListener(new ActionListener()
    {

        public void actionPerformed(ActionEvent e)
        {

            try
            {

                Statement statement = connection.createStatement();

                int i = statement.executeUpdate("DELETE FROM trade WHERE trid =
"+TradeIDList.getSelectedItem()+" and administrator="+ administratorText.getText()+" and
contact="+contactText.getText()+" and currencyTo="+ currencytoText.getText()+" and address="+
addressText.getText()+"");

                errorText.append("\nDeleted "+i+ "rows successfully");

                tridText.setText(null);

                administratorText.setText(null);

                contactText.setText(null);

                currencytoText.setText(null);

                addressText.setText(null);

                TradeIDList.removeAll();

                loadTrade();

            }
        }
    });
}
```

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DBMS Assignment 2

Title: Forex Trading Database System

```
        catch (SQLException insertException)
        {
            displaySQLErrors(insertException);
        }
    }

});

{
    tridText = new TextField(15);
    administratorText = new TextField(15);
    contactText = new TextField(15);
    currencytoText = new TextField(15);
    addressText = new TextField(15);

    errorText = new TextArea(10, 40);
    errorText.setEditable(false);

    Panel first = new Panel();
    first.setLayout(new GridLayout(4, 2));
    first.add(new Label("Trade ID:"));
    first.add(tridText);
    first.add(new Label("Administrator:"));
    first.add(administratorText);
    first.add(new Label("Contact:"));
    first.add(contactText);
    first.add(new Label("Currency to:"));
    first.add(currencytoText);
    first.add(new Label("Address:"));
    first.add(addressText);

    Panel second = new Panel(new GridLayout(4, 1));
```

DBMS Assignment 2

Title: Forex Trading Database System

```
second.add(deleteTradeButton);

Panel third = new Panel();
third.add(errorText);
add(first);
add(second);
{
add(third);

setTitle("Remove Trade");
setSize(450, 600);
setLayout(new FlowLayout());
setVisible(true);

}
private void displaySQLExceptions(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)
{
DeleteTrade dtrade = new DeleteTrade();

dtrade.addWindowListener(new WindowAdapter(){
public void windowClosing(WindowEvent e)
{
System.exit(0);
}
}
```

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Title: Forex Trading Database System

```
});  
  
dtrade.buildGUI();  
  
}  
  
}
```

The screenshot shows a window titled "Remove Trade" with standard Windows window controls (minimize, maximize, close). Inside the window, there is a list box containing the following trade IDs: 12345785, 133126, 311326, 6743567, 2345667, 654321, 8965, and 8962. The ID "8962" is currently selected and highlighted in blue. Below the list box, there are several input fields and labels arranged in a grid-like fashion:

Trade ID:	8962	Administrator:
9652	Contact:	96528
Currency to:	dollar	Address:
9652		

Below these fields, there is a button labeled "Delete trade". To the right of the button, there is a large text area containing the message "Deleted 1 rows successfully".

DBMS Assignment 2

Title: Forex Trading Database System

```
Run SQL Command Line
89652 soumya          9502121421 dollar      20201
879652 soumya          21421 dollar      20201
8962 9652             96528 dollar      9652
896532 5692           9653 dollar      505

11 rows selected.

SQL> desc trade;
      Name                               Null?   Type
-----
TRID                                NOT NULL  NUMBER(10)
ADMINISTRATOR                      VARCHAR2(20)
CONTACT                            NUMBER(10)
CURRENCYCYTO                       VARCHAR2(15)
ADDRESS                            VARCHAR2(20)

SQL> select *from trade;

      TRID ADMINISTRATOR      CONTACT CURRENCYCYTO      ADDRESS
-----
12345785 revathi            675899590 dollars      6-60
133126 prathima            9381454667 dollars      7-70
311326 varshitha           9912825524 dollars      6-60
6743567 thanuja            9010688988 dollars      4-40
2345667 karthik            9640410710 dollars      5-50
654321 preetham            9356457831 dollars      2-20


6 rows selected.

SQL>
```

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DBMS Assignment 2

Title: Forex Trading Database System

 Make Customer_Account

Customer ID:263113

Account ID:4567

Since:896

Customer Account

Inserted 1 rows successfully

DBMS Assignment 2
Title: Forex Trading Database System

Remove Login

263113

Customer ID:

User name TYPe:

Password:

Customer name:

contact:

address:

Delete Login

Deleted 1 rows successfully

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Title: Forex Trading Database System

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DBMS Assignment 2

Title: Forex Trading Database System

New Account Creation

Close

Account ID:

9865

Account type

student

Balance

1000

Balance Type

rupee

Insert Account

Inserted 1 rows successfully

DBMS Assignment 2

Title: Forex Trading Database System

New Login Creation

Customer ID

896

User name

hema

password

5632

customer name

hema

contact:

4596

address:

2634

Insert Login

Inserted 1 rows successfully

DBMS Assignment 2
Title: Forex Trading Database System

The screenshot shows a web application window titled "Update Transaction". On the left, there is a list of transaction IDs: 56785, 674892, 784927, 785932, 7859356, and 8942074. To the right of this list are two input fields: "TId:" with the value "56785" and "Currency of:" with the value "indian". A button labeled "Update Transaction" is positioned to the right of the "TId:" field. Below these elements is a large text area displaying the message "Updated 1 rows successfully".

Transaction ID	TId	Currency of
56785	56785	indian
674892		
784927		
785932		
7859356		
8942074		

Updated 1 rows successfully

DBMS Assignment 2

Title: Forex Trading Database System

Update Login

263113

Customer ID:263113

User Name:saivarshi

Password:13312609

Customer Name:saisa

Contact:9010688

Address:321456

Update Login

Updated 1 rows successfully

DBMS Assignment 2
Title: *Forex Trading Database System*

Remove Login

263113

Customer ID:

User name TYPe:

Password:

Customer name:

contact:

address:

Delete Login

Deleted 1 rows successfully

DBMS Assignment 2

Title: Forex Trading Database System

Remove Account

4567

99128

123456

9010688

8965

Account ID:

4567

Account TYPe:

bussiness

Balance:

7000

Balance TYPe:

indian

Delete Account

Deleted 1 rows successfully

DBMS Assignment 2

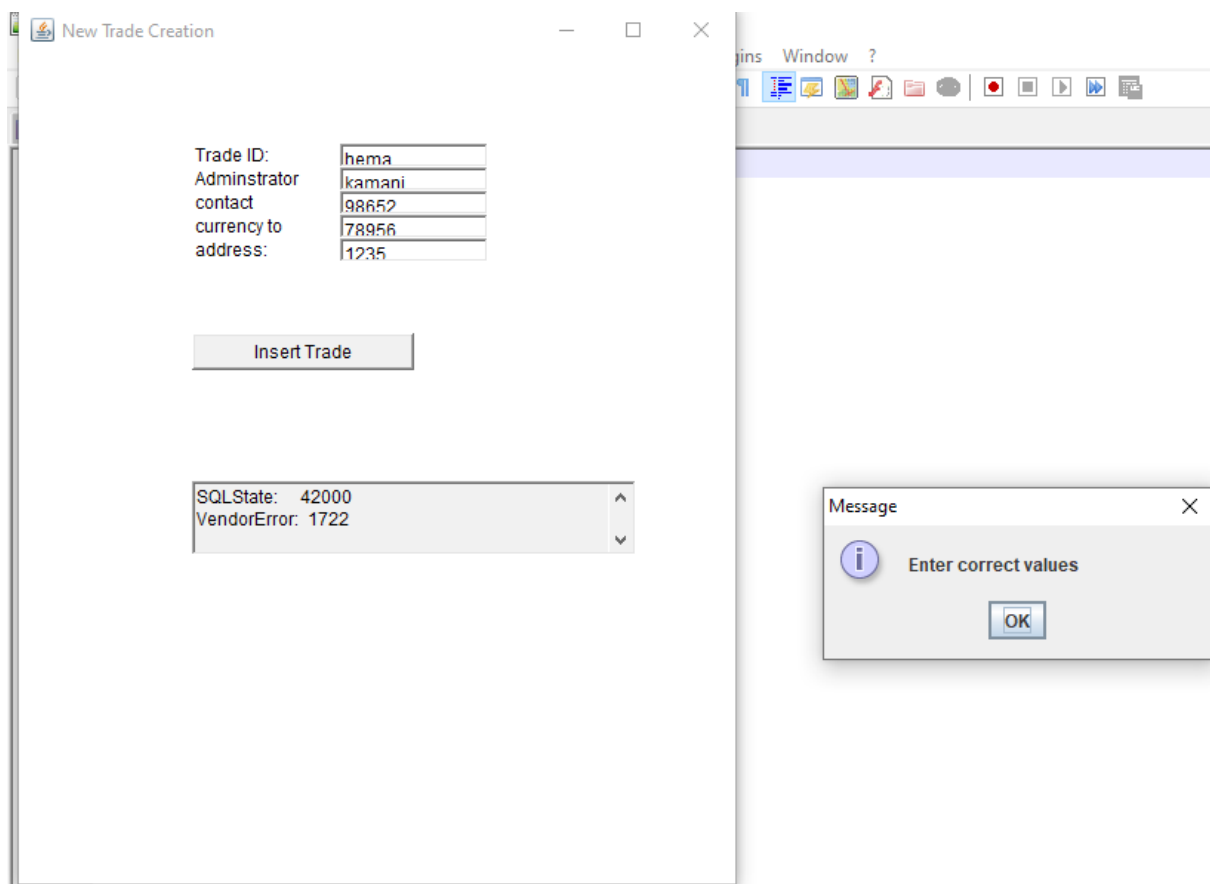
Title: Forex Trading Database System

F) Testing

The code written for building GUI and connecting with database ensures that the values entered by the user are of correct data types. It prompts an error message if the values entered are not of the specified data types.

Example

In this example the domain of the marks is number , whereas the user entered characters. So it prompted an error message



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DBMS Assignment 2

Title: Forex Trading Database System

RESULT

- .1. Connection with database is established
2. The values given for tables in the GUI components by the user are saved in the database.

REFERENCES

<https://docs.oracle.com/javase/7/docs/api/>

<https://www.geeksforgeeks.org/establishing-jdbc-connection-in-java/>