

National University of Modern Languages



Lab Task

Roll # 2340

Class: BSCS 5B Morning

Subject: ADVANCE OOP

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About: This task is about Transaction Management, and I have done it by Run time Gui to perform Insertion, Deletion, Updation, and Selection By Id. Then using Drag and Drop Gui I have performed Selection By Id to display the Table.

Transaction Dao Class:

```
import java.sql.*;

public class transactiondao {

    Connection con = null;

    void Connection() {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            String url = "jdbc:mysql://localhost:3306/transaction";
            con = DriverManager.getConnection(url, "root", "");
        } catch (Exception ex) {
            System.out.println(ex.toString());
        }
    }

    int Insert(Transaction T) {
        Connection();
        int res=0;
        try {
            String qry = "insert into tbltransaction values (?, ?, ?, ?, ?, ?)";
            PreparedStatement pst = con.prepareStatement(qry);
            pst.setInt(1, T.Tid);
            pst.setString(2, T.Tdate);
```

```

pst.setString(3,T.Ttype);
pst.setString(4,T.Tamount);
pst.setInt(5,T.Anumber);
pst.setString(6,T.served);
res = pst.executeUpdate();
con.close();
} catch (Exception ex) {
System.out.println(ex.toString());
}
return res;
}

int Update(Transaction T){
Connection();
int res=0;
try {
String qry = "update tbltransaction set Tdate=?, Ttype=?, Tamount=?,
Anumber=?, Served=? where Tid=?";
PreparedStatement pst = con.prepareStatement(qry);

pst.setString(1,T.Tdate);
pst.setString(2,T.Ttype);
pst.setString(3,T.Tamount);
pst.setInt(4,T.Anumber);
pst.setString(5,T.served);
pst.setInt(6,T.Tid);

```

```

res = pst.executeUpdate();
con.close();
} catch (Exception ex) {
System.out.println(ex.toString());
}

return res;
}

int Delete(Transaction T){
Connection();

int res=0;
try {
String qry ="delete from tbltransaction where Tid=?";
PreparedStatement pst = con.prepareStatement(qry);
pst.setInt(1,T.Tid);
res = pst.executeUpdate();
con.close();
} catch (Exception ex) {
System.out.println(ex.toString());
}

return res;
}

ResultSet SelectById(Transaction T){
Connection();

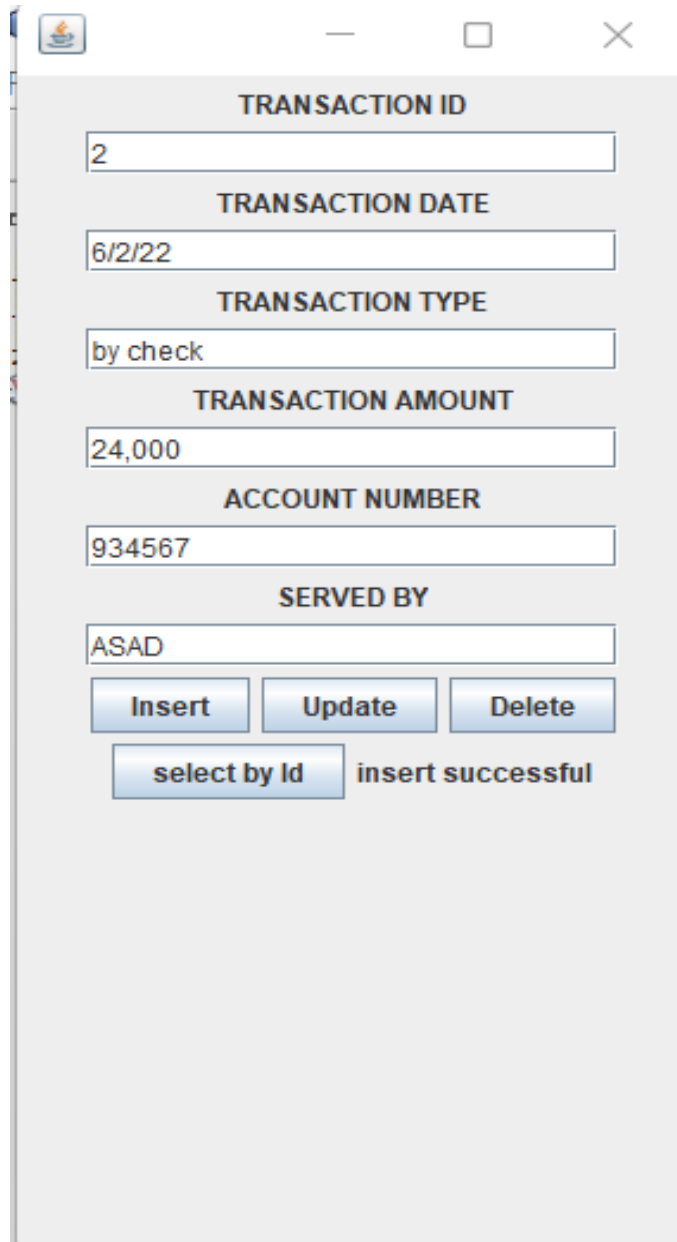
ResultSet res=null;

```

```
try {  
    String qry="select * from tbltransaction where Tid = ?";  
    PreparedStatement pst = con.prepareStatement(qry);  
    pst.setInt(1,T.Tid);  
    res = pst.executeQuery();  
    // con.close();  
} catch (Exception ex) {  
    System.out.println(ex.toString());  
}  
return res;  
}  
}
```

OUTPUT:

Insertion:



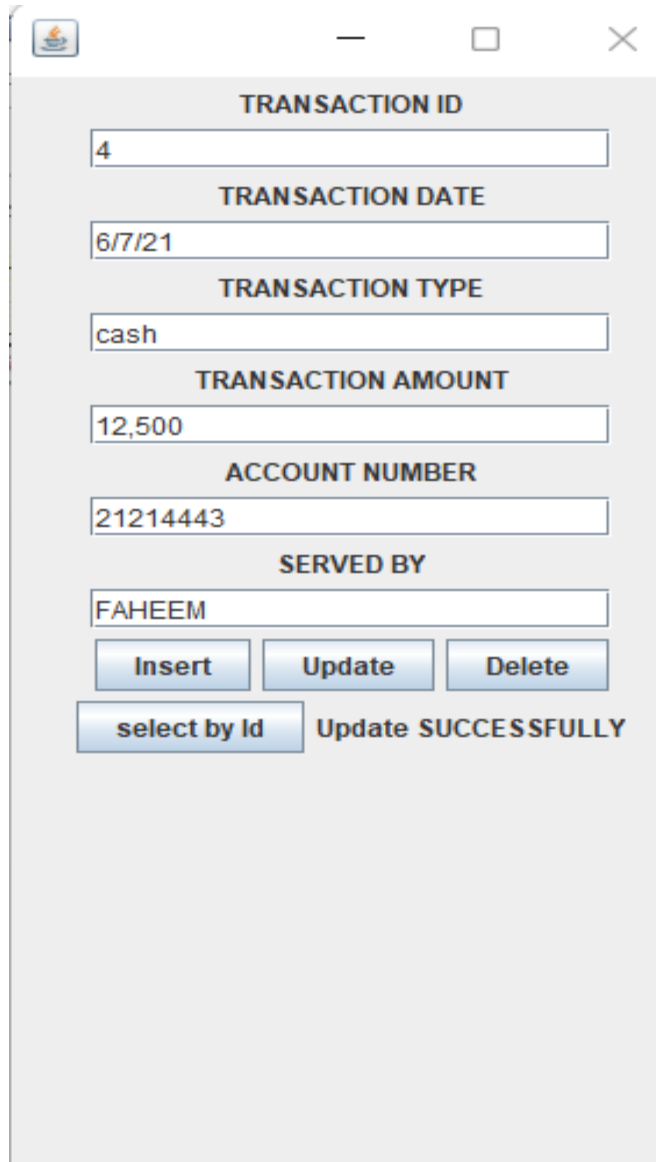
A screenshot of a web application window titled "TRANSACTION ID" with a standard Windows-style title bar (minimize, maximize, close buttons). The form contains several input fields and buttons. The fields are labeled "TRANSACTION ID", "TRANSACTION DATE", "TRANSACTION TYPE", "TRANSACTION AMOUNT", "ACCOUNT NUMBER", and "SERVED BY". The values entered are "2", "6/2/22", "by check", "24,000", "934567", and "ASAD" respectively. Below the fields are three buttons: "Insert", "Update", and "Delete". At the bottom, there is a button labeled "select by Id" and a text label "insert successful".

Field Label	Value
TRANSACTION ID	2
TRANSACTION DATE	6/2/22
TRANSACTION TYPE	by check
TRANSACTION AMOUNT	24,000
ACCOUNT NUMBER	934567
SERVED BY	ASAD

Buttons: Insert, Update, Delete

Bottom: select by Id, insert successful

Updation:



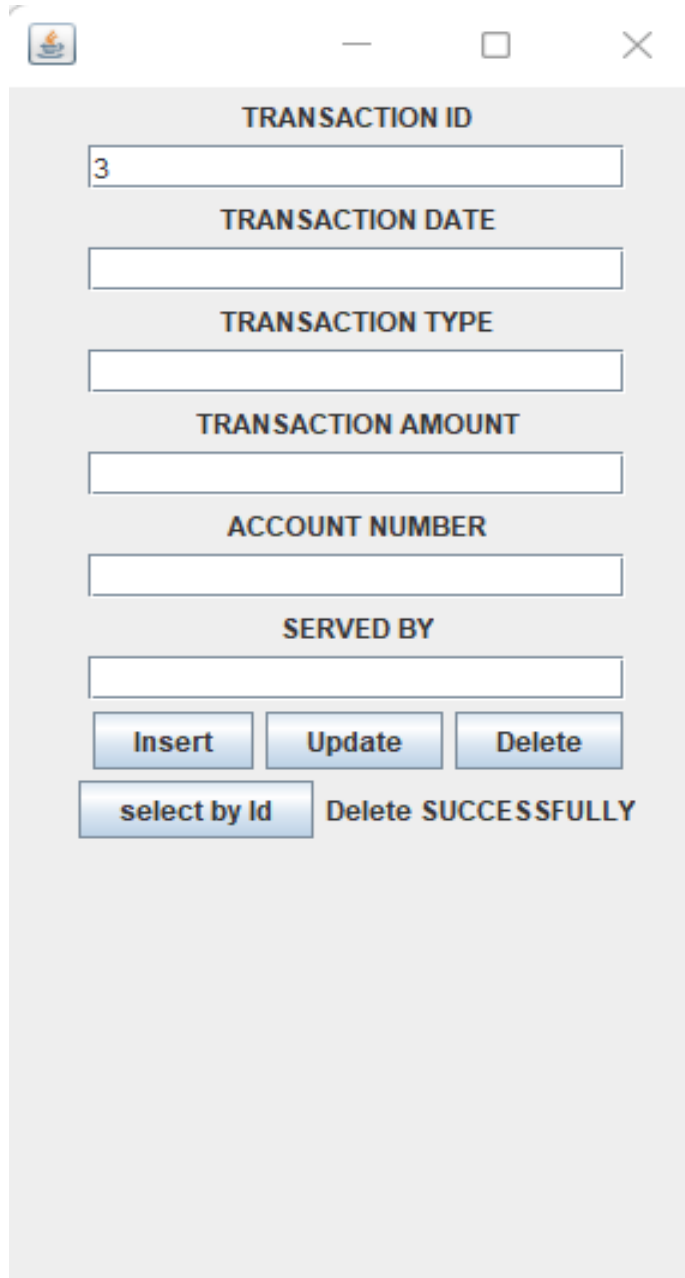
A screenshot of a database application window titled "TRANSACTION ID". The window contains several input fields for transaction details, each with a label above it. The fields are: "TRANSACTION ID" (value: 4), "TRANSACTION DATE" (value: 6/7/21), "TRANSACTION TYPE" (value: cash), "TRANSACTION AMOUNT" (value: 12,500), "ACCOUNT NUMBER" (value: 21214443), and "SERVED BY" (value: FAHEEM). Below the input fields are three buttons: "Insert", "Update", and "Delete". The "Update" button is highlighted. At the bottom left, there is a button labeled "select by Id". To the right of this button, the text "Update SUCCESSFULLY" is displayed.

Field Label	Value
TRANSACTION ID	4
TRANSACTION DATE	6/7/21
TRANSACTION TYPE	cash
TRANSACTION AMOUNT	12,500
ACCOUNT NUMBER	21214443
SERVED BY	FAHEEM

Buttons: Insert, Update, Delete

select by Id Update SUCCESSFULLY


Deletion:



A screenshot of a web application window with a title bar containing a logo, a minus sign, a maximize button, and a close button. The window has a light gray background and contains the following elements:

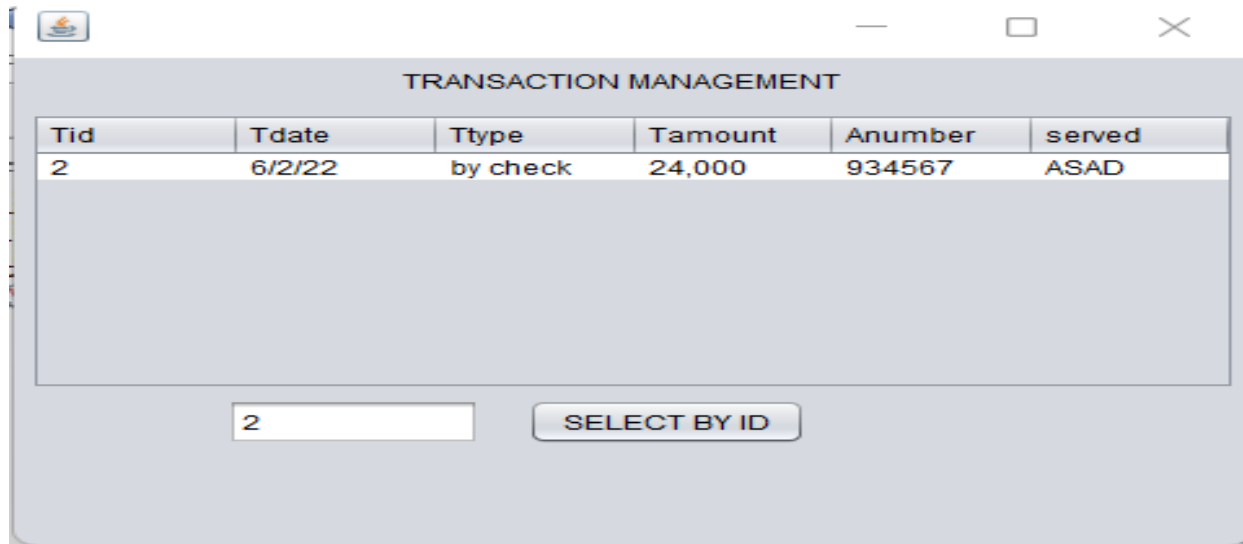
- TRANSACTION ID**: A text input field containing the number "3".
- TRANSACTION DATE**: An empty text input field.
- TRANSACTION TYPE**: An empty text input field.
- TRANSACTION AMOUNT**: An empty text input field.
- ACCOUNT NUMBER**: An empty text input field.
- SERVED BY**: An empty text input field.
- Buttons**: Three buttons labeled "Insert", "Update", and "Delete" are arranged horizontally.
- Footer**: A button labeled "select by Id" and the text "Delete SUCCESSFULLY" are located at the bottom left of the window.

Selection By Id:

—□×

TRANSACTION ID
4
TRANSACTION DATE
6/7/21
TRANSACTION TYPE
cash
TRANSACTION AMOUNT
12,500
ACCOUNT NUMBER
21214443
SERVED BY
FAHEEM
<input type="button" value="Insert"/>
<input type="button" value="Update"/>
<input type="button" value="Delete"/>
<input type="button" value="select by Id"/>

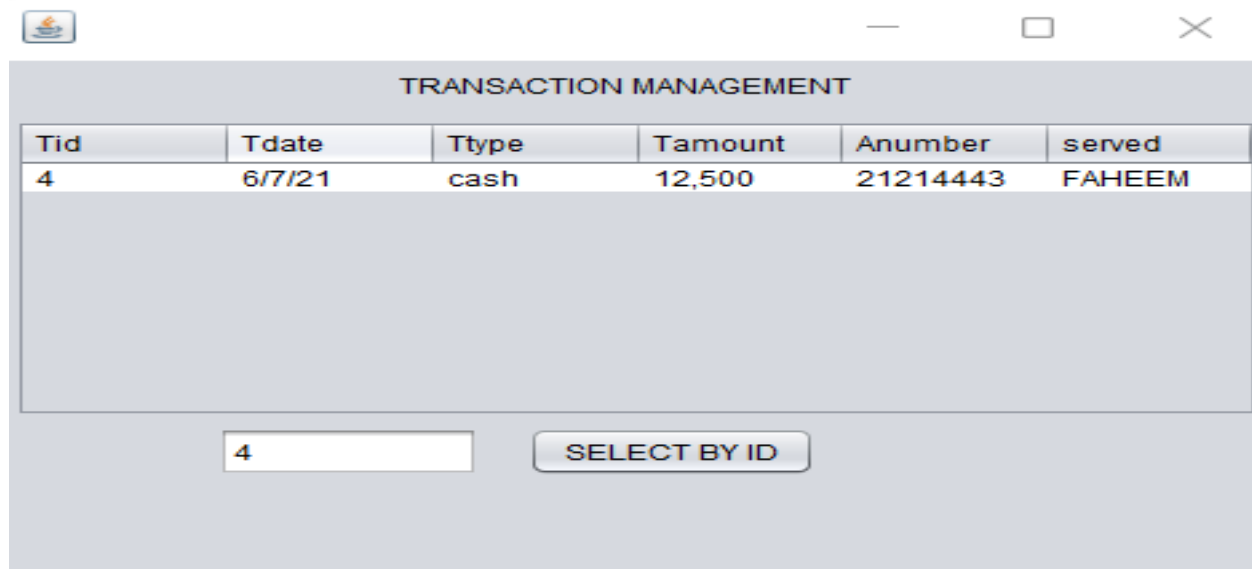
BY DRAG AND DROP GUI:



A screenshot of a 'TRANSACTION MANAGEMENT' window. It features a table with 6 columns: Tid, Tdate, Ttype, Tamount, Anumber, and served. The first row contains the values 2, 6/2/22, by check, 24,000, 934567, and ASAD. Below the table is a text input field containing the number 2 and a button labeled 'SELECT BY ID'.

Tid	Tdate	Ttype	Tamount	Anumber	served
2	6/2/22	by check	24,000	934567	ASAD

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A screenshot of the same 'TRANSACTION MANAGEMENT' window, but with the first row of the table containing the values 4, 6/7/21, cash, 12,500, 21214443, and FAHEEM. The text input field below the table now contains the number 4.

Tid	Tdate	Ttype	Tamount	Anumber	served
4	6/7/21	cash	12,500	21214443	FAHEEM

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