**Practical: 3.6**

**Aim:** Consider Bank Table with attributes AccountNo, Customer Name, Balance, Phone and Address. Write a JDBC Program which allows insertion, updation and deletion of record in Bank Table. Print values of all customers whose balance is greater then specified amount.

**Program code:**

//STEP 1. Import required packages

**import** java**.**sql**.\*;**

**import** java**.**util**.\*;**

public class bankinfo **{**

// JDBC driver name and database URL

static final String JDBC\_DRIVER **=** "org.postgresql.Driver"**;**

static final String DB\_URL **=** "jdbc:postgresql://127.0.0.1:5432/s2a130050131070"**;**

// Database credentials

static final String USER **=** "postgres"**;**

static final String PASS **=** "12345"**;**

public static void main**(**String**[]** args**)** **{**

Connection con **=** **null;**

PreparedStatement stmt **=** **null;**

Statement stmt1 **=** **null;**

Double ph**,**acno**;**

String name**,**add**;**

Double bal**;**

int i**=**0**;**

**try{**

//STEP 2: Register JDBC driver

Class**.**forName**(**JDBC\_DRIVER**);**

//STEP 3: Open a connnection

System**.**out**.**println**(**" \n Connecting to a s2a130050131070 database"**);**

con **=** DriverManager**.**getConnection**(**DB\_URL**,** USER**,** PASS**);**

System**.**out**.**println**(**"Connected database successfully"**);**

Scanner sc**=new** Scanner**(**System**.**in**);**

while(i!=1){

System.out.println("\n Enter the operation to be performed:\n \t1.Insert \n \t 2.Update \n \t 3.Delete\n \t4. display values of all customers whose balance is greater then \n \t5.Exit");

int ch=sc.nextInt();

switch(ch){

case 1:

stmt=con.prepareStatement("insert into Bank1 values(?,?,?,?,?)");

System.out.print("Enter Account No:");

acno=sc.nextDouble();

System.out.print("Enter Customer Name:");

name=sc.next();

System.out.print("Enter balance:");

bal=sc.nextDouble();

System.out.print("Enter Phone No:");

ph=sc.nextDouble();

System.out.print("Enter Address:");

add=sc.next();

stmt.setDouble(1,acno);

stmt.setString(2,name);

stmt.setDouble(3,bal);

stmt.setDouble(4,ph);

stmt.setString(5,add);

stmt.executeUpdate();

System.out.println("Data inserted successfully.");

break;

case 2:

stmt=con.prepareStatement("update Bank1 set balance=? where acc\_no= ?");

System.out.print("Enter Account No:");

acno=sc.nextDouble();

System.out.print("Enter balance:");

bal=sc.nextDouble();

stmt.setDouble(2,acno);

stmt.setDouble(1,bal);

stmt.executeUpdate();

System.out.print("Data Updated successfully");

break;

case 3:

stmt=con.prepareStatement("delete from Bank1 where acc\_no=?");

System.out.print("Enter Account No:");

acno=sc.nextDouble();

stmt.setDouble(1,acno);

stmt.executeUpdate();

System.out.println("Data Deleted successfully");

break;

case 4:

System.out.println("enter amount ");

int Amount = sc.nextInt();

stmt1 = con.createStatement();

String sql = "select \* from bank1 where balance > "+Amount+"";

stmt1.executeQuery(sql);

ResultSet rs = stmt1.executeQuery(sql);

while(rs.next())

{

acno=rs.getDouble("acc\_no");

name=rs.getString("name");

bal=rs.getDouble("balance");

ph=rs.getDouble("ph\_no");

System.out.println("Account number:"+acno);

System.out.println("Account Name:"+name );

System.out.println("Account Balance:"+bal);

System.out.println("Contact Number:"+ph);

System.out.println();

}

break;

case 5:

i=1;

break;

default:

System.out.println("Invalid choice");

break;

}

}

}catch(SQLException se){

//Handle errors for JDBC

se.printStackTrace();

}catch(Exception e){

//Handle errors for Class.forName

e.printStackTrace();

} finally{

//finally block used to close resources

try{

if(stmt!=null)

con.close();

}catch(SQLException se){

}// do nothing

try{

if(con!=null)

con.close();

}catch(SQLException se){

se.printStackTrace();

}//end finally try

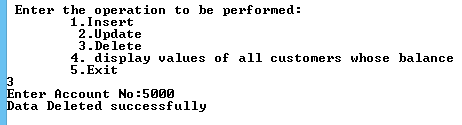
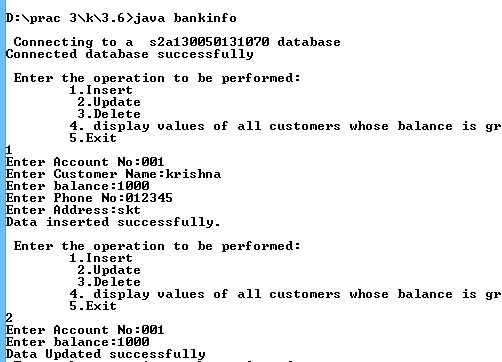
}//end try

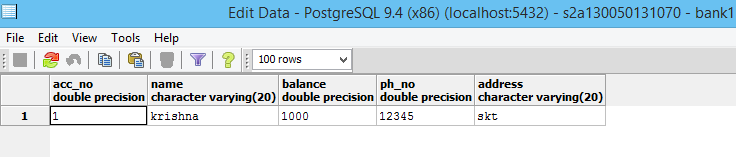
System.out.println("program complited");

}//end main

}//end

**Input Output:**

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