**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. (Hint: program should be menu driven).

**CODE:**

**1. JDBCCreateBankTable**

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

**public class JDBCCreateBankTable{**

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

**static final String DB\_URL = "jdbc:postgresql://localhost/s2d130050131115";**

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

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

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

**Connection conn = null;**

**Statement stmt = null;**

**try{**

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

**System.out.println("Connecting to a selected database...");**

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

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

**System.out.println("Creating table in given database...");**

**stmt = conn.createStatement();**

**String sql = "CREATE TABLE BANK" + "( Acc\_no DOUBLE PRECISION, " + "Name VARCHAR(20),"+"Balance DOUBLE PRECISION,"+"Ph\_no DOUBLE PRECISION, "+"Address VARCHAR(20))";**

**stmt.executeUpdate(sql);**

**System.out.println("Created table in given database...");**

**}catch(SQLException se){**

**se.printStackTrace();**

**}catch(Exception e){**

**e.printStackTrace();**

**}finally{**

**try{**

**if(stmt!=null)**

**conn.close();**

**}catch(SQLException se){**

**}**

**try{**

**if(conn!=null)**

**conn.close();**

**}catch(SQLException se){**

**se.printStackTrace();**

**}**

**}**

**System.out.println("End of file.");**

**}**

**}**

**2. JDBCInsertBank**

//STEP 1. Import required packages

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

public class JDBCInsertBank **{**

// JDBC driver name and database URL

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

static final String DB\_URL **=** "jdbc:postgresql://localhost/s2d130050131115"**;**

// Database credentials

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

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

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

Connection conn **=** **null;**

Statement stmt **=** **null;**

**try{**

//STEP 2: Register JDBC driver

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

//STEP 3: Open a connection

System**.**out**.**println**(**"Connecting to a selected database..."**);**

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

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

//STEP 4: Execute a query

System**.**out**.**println**(**"Inserting records into the table..."**);**

stmt **=** conn**.**createStatement**();**

String sql **=** "INSERT INTO BANK " **+**

"VALUES (1001, 'TWISHA', 500000, 7896641452, 'MANJALPUR' )"**;**

stmt**.**executeUpdate**(**sql**);**

String sql1 **=** "INSERT INTO BANK " **+**

"VALUES (1002, 'AAYUSHI', 650000, 7874641741, 'NIZAMPURA' )"**;**

stmt**.**executeUpdate**(**sql1**);**

String sql2 **=** "INSERT INTO BANK " **+**

"VALUES (1003, 'NIDHI', 741000, 9632587412, 'ALKAPURI' )"**;**

stmt**.**executeUpdate**(**sql2**);**

String sql3 **=** "INSERT INTO BANK " **+**

"VALUES (1004, 'BHARGAVI', 50000, 1593574206, 'FATEGUNJ' )"**;**

stmt**.**executeUpdate**(**sql3**);**

System**.**out**.**println**(**"records Inserted into the table..."**);**

**}catch(**SQLException se**){**

se**.**printStackTrace**();**

**}catch(**Exception e**){**

e**.**printStackTrace**();**

**}finally{**

**try{**

**if(**stmt**!=null)**

conn**.**close**();**

**}catch(**SQLException se**){**

**}**

**try{**

**if(**conn**!=null)**

conn**.**close**();**

**}catch(**SQLException se**){**

se**.**printStackTrace**();**

**}**

**}**

System**.**out**.**println**(**"Goodbye!"**);**

**}**

**}**

**3.bankinfo**

//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://localhost/s2d130050131115";

// 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 s2a130050131115 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 Bank 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 Bank 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 Bank 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 bank 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

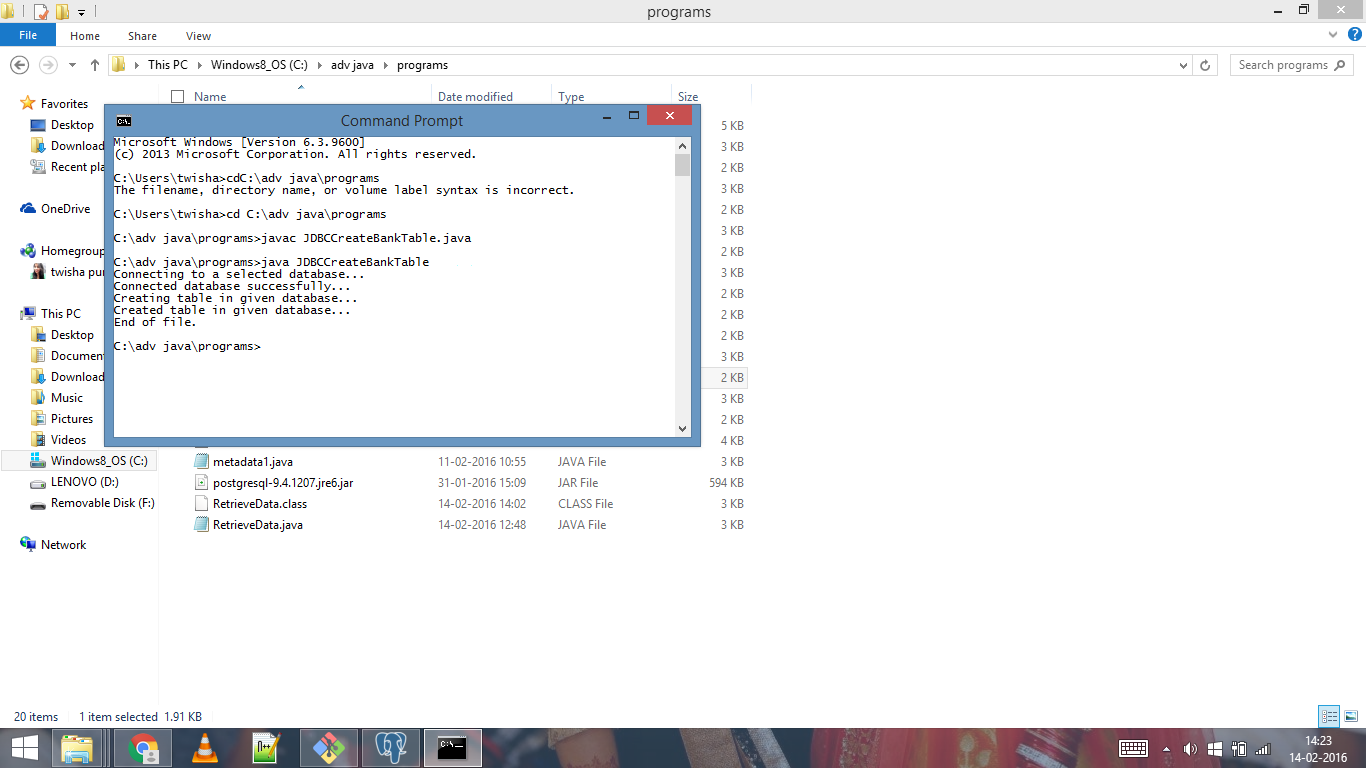
}//end try

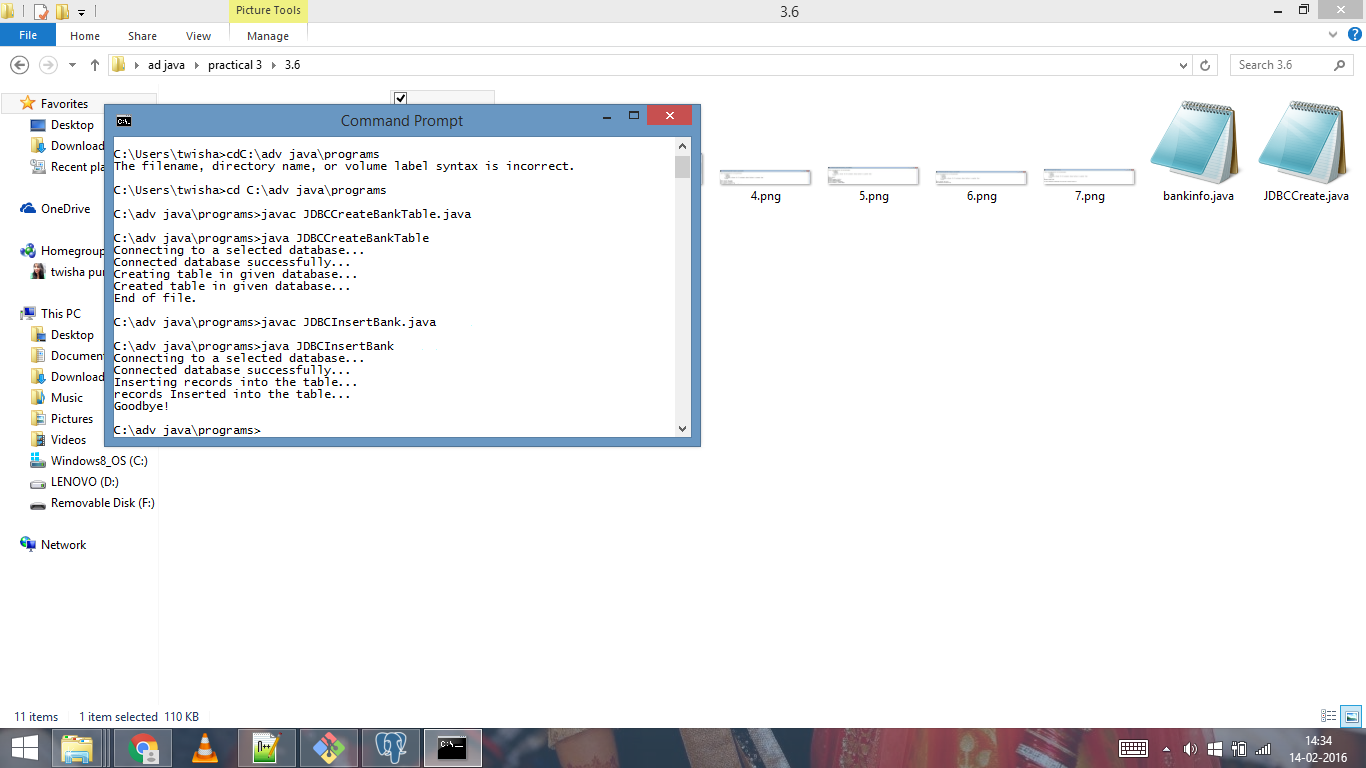
System.out.println("program complited");

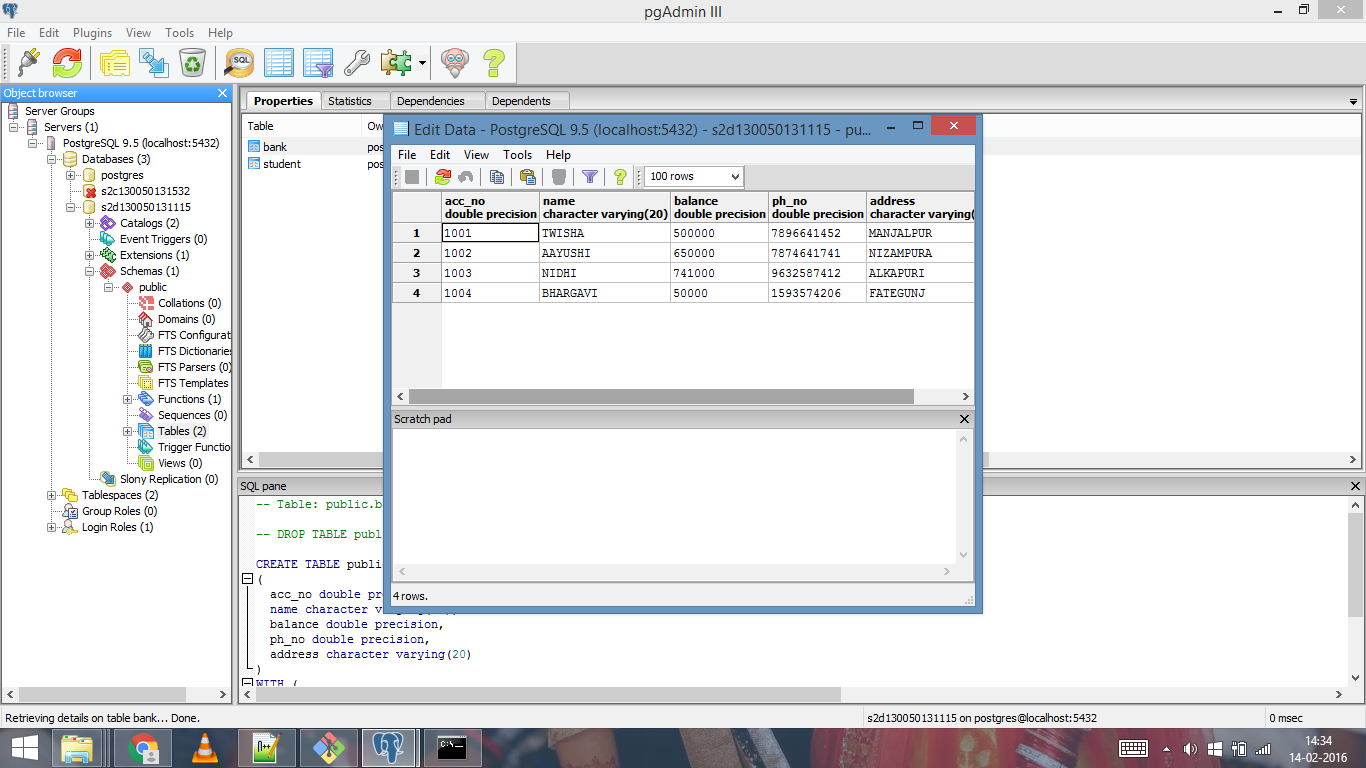
}//end main

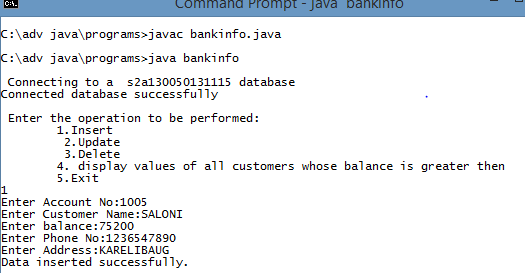
}//end

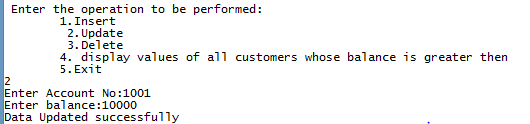
**OUTPUT:**

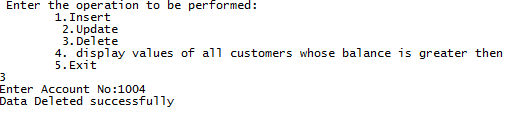
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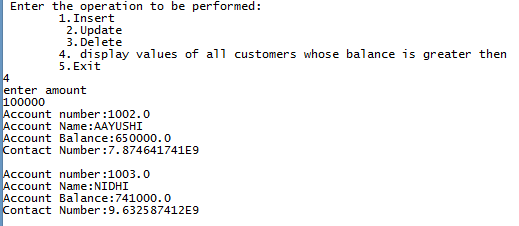
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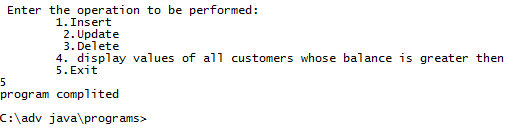
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