

**Dt : 28/1/2027**

**DB Table : Bank70(accno,name,balance,acctype)**

**Primary Key : accno**

**create table Bank70(accno number(15),name varchar2(15),balance number(10,2),  
acctype varchar2(15),primary key(accno));**

**insert into Bank70 values(6123456,'Alex',12000,'Savings');**

**insert into Bank70 values(313131,'Ram',500,'Savings');**

**SQL> select \* from Bank70;**

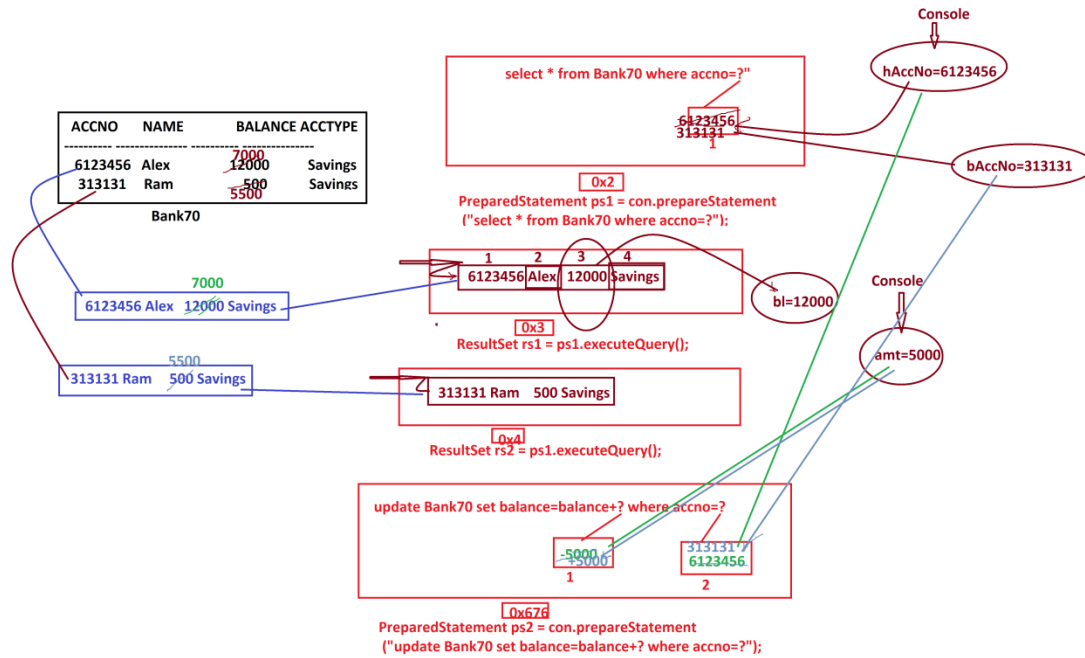
<b>ACCNO NAME</b>	<b>BALANCE ACCTYPE</b>
6123456 Alex	12000 Savings
313131 Ram	500 Savings

**SQL>**

**Transaction : Transfer amt:5000/- from accNo:6123456 to accNo:313131**

**Statement-1 : Subtract amt:5000/- from accNo:6123456**

**Statement-2 : Add amt:5000/- to accNo:313131**



**Program : DBCon11.java**

```
package test;
```

```
import java.util.*;
```

```
import java.sql.*;
```

```
public class DBCon11 {
```

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

```
        Scanner s = new Scanner(System.in);
```

```
        try(s){
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

**Connection con = DriverManager.getConnection**

**("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");**

**PreparedStatement ps1 = con.prepareStatement**

**("select \* from Bank70 where accno=?");**

**PreparedStatement ps2 = con.prepareStatement**

**("update Bank70 set balance=balance+? where accno=?");**

**System.out.println("commit status : "+con.getAutoCommit());**

**con.setAutoCommit(false);**

**System.out.println("commit status : "+con.getAutoCommit());**

**Savepoint sp = con.setSavepoint();**

**System.out.println("Enter the HomeAccNo:");**

**long hAccNo = s.nextLong();**

**ps1.setLong(1, hAccNo);**

**ResultSet rs1 = ps1.executeQuery();**

**if(rs1.next()) {**

**float bl = rs1.getFloat(3);**

**System.out.println("Enter the benificieryAccNo:");**

**long bAccNo = s.nextLong();**

**ps1.setLong(1, bAccNo);**

**ResultSet rs2 = ps1.executeQuery();**

**if(rs2.next()) {**

**System.out.println("Enter the amt to be transferred:");**

**float amt = s.nextFloat();**

**if(amt<=bl) {**

**//Statement-1 : Subtract amt:5000/- from accNo:6123456**

```

        ps2.setFloat(1,-amt);

        ps2.setLong(2, hAccNo);

        int p = ps2.executeUpdate();//Buffer Updated


        //Statement-2 : Add amt:5000/- to accNo:313131

        ps2.setFloat(1, +amt);

        ps2.setLong(2, bAccNo);

        int q = ps2.executeUpdate();//Buffer Updated


        if(p==1 && q==1) {

            con.commit();//Updating Database

            System.out.println("Transaction Successfull...");

        }else {

            System.out.println("Transaction failed...");

        }

    }else {

        con.rollback(sp);

        System.out.println("Insufficient Fund...");

    }

    }else {

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

    }

}

    }else {

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

    }

}

```

```
    }catch(Exception e) {  
        e.printStackTrace();  
    }  
}  
}
```

*o/p:*

*commit status : true*

*commit status : false*

*Enter the HomeAccNo:*

*6123456*

*Enter the beneficiaryAccNo:*

*313131*

*Enter the amt to be transferred:*

*5000*

*Transaction Successfull...*

-----

*Assignment:*

*(i)Update above program by generated else-block-messages from 'catch-block'*

*(ii)Create Table : TransLog70(hccno,baccno,amt,datetime)*

*Primary Key : haccno*

*when Transaction Successfull,then record the details.*

-----

*\*imp*

*Batch Processing in JDBC:*

**=>The process of collecting multiple queries as batch and executing at-a-time is known as**

**Batch Processing or Batch Update Processing.**

**=>In Batch Processing we cannot perform select-operation.**

**=>We use 'Statement' to perform batch processing,because we can update multiple db tables at-a-time**

**=>We use the following methods to perform Batch Processing:**

**1.addBatch()**

**2.executeBatch()**

**3.clearBatch()**

**1.addBatch():**

**=>addBatch()-method is used to add queries to batch.**

**Method Signature:**

**public abstract void addBatch(java.lang.String) throws java.sql.SQLException;**

**2.executeBatch():**

**=>executeBatch()-method is used to execute all queries from the batch.**

**Method Signature:**

**public abstract int[] executeBatch() throws java.sql.SQLException;**

**3.clearBatch():**

**=>clearBatch()-method will delete all queries from the batch and destroy the batch**

**Method Signature:**

**public abstract void clearBatch() throws java.sql.SQLException;**