SSN COLLEGE OF ENGINEERING *Department of Computer Science & Engineering*	*Faculty:* *P. Mirunalini, Asso. Prof* *N.Sujaudeen, Asst. Prof.*
UCS1412 – Database Lab *Assignment – 7*	*Assigned:19-May-23* *Due: 1 Lab Hour*
Title: PL/SQL – Triggers	

Banking Transaction System

Consider the following relational schema for a banking database application:

CUSTOMER (CID, CNAME, AGE, ADDRESS, PHONE)
ACCOUNT (ANO, ATYPE, BALANCE, CID)
TRANSACTION (TID, ANO, TTYPE, TDATE, TAMOUNT)

An account type (ATYPE) can be a savings account or a current account. A customer can have both types of accounts. Transaction type (TTYPE) can be 'D' or 'W' where D – Deposit, W – Withdrawal.

Write a PL/SQL Trigger for the following:

Note:
a. Use implicit/explicit cursor wherever required.
b. Use *cust_acct.sql* to populate the database.

1. During Withdrawal, check whether the transaction amount is less than the available balance. Event : Insert/Update (tamount)

```
If ttype=Withdrawal and tamount>balance then
raise 'Available Balance is lesser than the Transaction amount'
```

2. Implement the following constraint to update the balance of an account for the transactions of both the Deposit or Withdrawal type.

   Event : Insert/Update (tamount)

```
If ttype = Deposit then balance = balance + tamount
If ttype = Withdrawal then balance = balance - tamount
```

3. Implement the following constraint for Withdrawal transactions. Event : Insert

   a. A customer can have at most 3 withdrawals per day per account.

   b. The maximum amount of withdrawal for each transaction is Rs.30000/-

$$