--28/04/2015

SELECT \* FROM ACCOUNTS

SELECT \* FROM TRANSACTIONS

DROP TRIGGER ACCOUNT\_DELETE\_TRIGGER

CREATE TRIGGER ACCOUNT\_DELETE\_TRIGGER

ON ACCOUNTS

FOR DELETE

AS

BEGIN

DECLARE @ACNO CHAR(7)

SELECT @ACNO = ACNO FROM DELETED

DELETE TRANSACTIONS

WHERE ACNO = @ACNO

PRINT @ACNO+' RECORD HAS BEEN DELETED FROM ACCOUNTS TRANSACTION TABLE'

END

DELETE ACCOUNTS

WHERE ACNO = 'A00003'

DELETE TRANSACTIONS

WHERE ACNO = 'A00001'

DROP TRIGGER TRANSACTION\_INSERT\_TRIGGER

CREATE TRIGGER TRANSACTION\_INSERT\_TRIGGER

ON TRANSACTIONS

FOR INSERT

AS

BEGIN

DECLARE @ACNO CHAR(7)

DECLARE @AMOUNT MONEY

DECLARE @TRAN\_TYPE VARCHAR(15)

DECLARE @BALANCE MONEY

SELECT @ACNO = ACNO FROM INSERTED

SELECT @AMOUNT = AMOUNT FROM INSERTED

SELECT @TRAN\_TYPE = TRAN\_TYPE FROM INSERTED

IF @TRAN\_TYPE = 'DEPOSIT'

BEGIN

UPDATE ACCOUNTS

SET BALANCE = BALANCE + @AMOUNT

WHERE ACNO = @ACNO

END

ELSE IF @TRAN\_TYPE = 'WITHDRAWL'

BEGIN

SELECT @BALANCE = BALANCE

FROM ACCOUNTS

WHERE ACNO = @ACNO

IF @AMOUNT > @BALANCE

BEGIN

PRINT 'INSUFFICIENT BALANCE, TRANSACTION IS NOT POSSIBLE'

ROLLBACK TRANSACTION

END

ELSE

BEGIN

UPDATE ACCOUNTS

SET BALANCE = BALANCE - @AMOUNT

WHERE ACNO = @ACNO

PRINT 'TRANSACTION HAS BEEN DONE'

END

END

ELSE

BEGIN

ROLLBACK TRANSACTION

PRINT 'INVALID TRANSACTION TYPE'

END

END

SELECT \* FROM ACCOUNTS

SELECT \* FROM TRANSACTIONS

INSERT TRANSACTIONS(TRAN\_ID,ACNO,AMOUNT,TRAN\_DATE,TRAN\_TYPE)

VALUES('T0000012','A00004',2000.00,'04/20/2004','DEPOSIT')

INSERT TRANSACTIONS(TRAN\_ID,ACNO,AMOUNT,TRAN\_DATE,TRAN\_TYPE)

VALUES('T0000014','A00004',6000.00,'04/20/2004','WITHDRAWL')

INSERT TRANSACTIONS(TRAN\_ID,ACNO,AMOUNT,TRAN\_DATE,TRAN\_TYPE)

VALUES('T0000015','A00004',6000.00,'04/20/2004','WITH')

INSERT TRANSACTIONS(TRAN\_ID,ACNO,AMOUNT,TRAN\_DATE,TRAN\_TYPE)

VALUES('T0000016','A00004',25000.00,'04/20/2004','WITHDRAWL')

SELECT ACNO,AMOUNT

FROM TRANSACTIONS

GROUP BY ACNO

HAVING SUM(AMOUNT) > 1000

SELECT \* FROM TRANSACTIONS

SELECT ACNO

FROM TRANSACTIONS

GROUP BY ACNO

HAVING SUM(AMOUNT) > 1000

SELECT ACNO

FROM ACCOUNTS

WHERE ACNO

IN(SELECT ACNO FROM TRANSACTIONS

GROUP BY ACNO

HAVING SUM(AMOUNT) > 1000)

DELETE ACCOUNTS

FROM ACCOUNTS

WHERE ACNO

IN(SELECT ACNO FROM TRANSACTIONS

GROUP BY ACNO

HAVING SUM(AMOUNT) > 1000)

SELECT \* FROM ACCOUNTS

SELECT \* FROM TRANSACTIONS

SELECT ACCOUNTS.ACNO,FIRST\_NAME,BALANCE

FROM ACCOUNTS JOIN TRANSACTIONS

ON ACCOUNTS.ACNO = TRANSACTIONS.ACNO

AND FIRST\_NAME LIKE 'AB%'

DELETE ACCOUNTS

FROM ACCOUNTS JOIN TRANSACTIONS

ON ACCOUNTS.ACNO = TRANSACTIONS.ACNO

AND FIRST\_NAME LIKE 'AB%'