CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL PRIMARY KEY CLUSTERED,

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000,

)

DROP TABLE ACCOUNTS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00001','AJAY','SHARMA',5000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00002','JOY','JULIAN',9000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00003','VINITA','JAIN',2000.00)

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL UNIQUE CLUSTERED,

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000

)

DROP TABLE ACCOUNTS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00001','AJAY','SHARMA',5000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00002','JOY','JULIAN',9000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00003','VINITA','JAIN',2000.00)

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL UNIQUE CLUSTERED,

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000,

)

DROP TABLE ACCOUNTS

DROP TABLE TRANSACTIONS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00001','AJAY','SHARMA',5000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00002','JOY','JULIAN',9000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00003','VINITA','JAIN',2000.00)

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL,

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000,

)

CREATE NONCLUSTERED INDEX INDEX\_ACNO

ON

ACCOUNTS(ACNO)

CREATE CLUSTERED INDEX INDEX\_ACNO

ON

ACCOUNTS(ACNO)

CREATE UNIQUE CLUSTERED INDEX INDEX\_ACNO

ON

ACCOUNTS(ACNO)

CREATE NONCLUSTERED INDEX INDEX\_FIRST\_NAME

ON

ACCOUNTS(FIRST\_NAME)

DROP INDEX AC COUNTS.INDEX\_ACNO

DROP TABLE ACCOUNTS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00001','AJAY','SHARMA',5000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00002','JOY','JULIAN',9000.00)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE)

VALUES('A00003','VINITA','JAIN',2000.00)

DROP TABLE ACCOUNTS

--CONSTRAINT CHECK\_ACNO CHECK(ACNO LIKE 'A[A-C][0-9][0-9][0-9][A-Z]'),

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL CONSTRAINT PK\_ACNO PRIMARY KEY CLUSTERED

CONSTRAINT CHECK\_ACNO CHECK(ACNO LIKE 'A[0-9][0-9][0-9][0-9][0-9]'),

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000,

AC\_TYPE VARCHAR(15) CONSTRAINT CHECK\_AC\_TYPE CHECK(AC\_TYPE IN('SAVING','CURRENT'))

)

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('A00001','AJAY','SHARMA',5000.00,'SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('A00002','JOY','JULIAN',9000.00,'CURRENT')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,AC\_TYPE)

VALUES('A00003','VINITA','JAIN','CURRENT')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,AC\_TYPE)

VALUES('A00004','VINITA','JAIN','NOTHING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('T00001','VINITA','JAIN',2000.00,'SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('A006','AJAY','SHARMA',5000.00,'SAVING')

DROP TABLE TRANSACTIONS

SELECT \* FROM ACCOUNTS

CREATE TABLE TRANSACTIONS

(

TRAN\_ID CHAR(8) NOT NULL PRIMARY KEY,

ACNO CHAR(6) NOT NULL CONSTRAINT FK\_ACNO FOREIGN KEY REFERENCES ACCOUNTS(ACNO),

AMOUNT MONEY NOT NULL,

TRAN\_DATE DATETIME NOT NULL DEFAULT GETDATE(),

TRAN\_TYPE VARCHAR(15) NOT NULL CONSTRAINT CHK\_TRAN\_TYPE CHECK(TRAN\_TYPE IN('DEPOSIT','WITHDRAWL'))

)

SELECT \* FROM ACCOUNTS

SELECT \* FROM TRANSACTIONS

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

VALUES('T0000001','A00001',2000.00,'04/16/2015','DEPOSIT')

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

VALUES('T0000002','A00009',2000.00,'04/16/2015','DEPOSIT')

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

VALUES('T0000002','A00001',2000.00,'DEPOSIT')

UPDATE ACCOUNTS

SET BALANCE = BALANCE + 2000.00

WHERE ACNO = 'A00001'

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

VALUES('T0000003','A00002',500.00,'04/16/2015','WITH')

DROP TABLE TRANSACTIONS

DROP TABLE ACCOUNTS

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL CONSTRAINT PK\_ACNO PRIMARY KEY CLUSTERED

CONSTRAINT CHECK\_ACNO CHECK(ACNO LIKE 'A[0-9][0-9][0-9][0-9][0-9]' OR ACNO IN('SA0001','MA0002','ST0003')),

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 5000,

AC\_TYPE VARCHAR(15) CONSTRAINT CHECK\_AC\_TYPE CHECK(AC\_TYPE IN('SAVING','CURRENT'))

)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('A00001','AJAY','SHARMA',5000.00,'SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE)

VALUES('MA0002','JOY','JULIAN',9000.00,'CURRENT')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,AC\_TYPE)

VALUES('ST0003','VINITA','JAIN','CURRENT')

DROP TABLE EXAMINATIONS

CREATE TABLE EXAMINATIONS

(

ROLL\_NO CHAR(5),

COURSE\_CODE CHAR(4),

EXAM\_DATE DATETIME DEFAULT GETDATE(),

ROOOM\_NO INT

CONSTRAINT PK\_ROLL\_NO\_COURSE\_CODE PRIMARY KEY(ROLL\_NO,COURSE\_CODE))

INSERT EXAMINATIONS(ROLL\_NO,COURSE\_CODE,ROOOM\_NO)

VALUES('R0001','C002',4)

INSERT EXAMINATIONS(ROLL\_NO,COURSE\_CODE,ROOOM\_NO)

VALUES('R0002','C002',4)

INSERT EXAMINATIONS(ROLL\_NO,COURSE\_CODE,ROOOM\_NO)

VALUES('R0002','C003',5)

INSERT EXAMINATIONS(ROLL\_NO,COURSE\_CODE,ROOOM\_NO)

VALUES('R0003','C003',5)

SELECT \* FROM EXAMINATIONS