---DATE 12/05/2016

CREATE DATABASE SBI

DROP DATABASE SBI

drop DATABASE SBI2

CREATE DATABASE SBI2

ON

(

NAME = SBI2\_DAT,

FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL10\_50.MSSQLSERVER\MSSQL\DATA\SBI2.mdf',

SIZE = 15,

MAXSIZE = 100,

FILEGROWTH = 5

)

LOG ON

(

NAME = SBI2\_LOG,

FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL10\_50.MSSQLSERVER\MSSQL\DATA\SBI2.ldf',

SIZE = 7 ,

MAXSIZE = 35 ,

FILEGROWTH = 1

)

go

CREATE DATABASE FRIEND

USE FRIEND

go

CREATE TABLE Friends

(

FriendID int identity(1,1) PRIMARY KEY,

NameOfFriend VARCHAR(50) NOT NULL,

Address varchar(60) NULL

)

DROP TABLE Friends

select \* from Friends

insert Friends(NameOfFriend,Address)

values('Manish Sharnma','22 d Saket, Meerut')

insert Friends(NameOfFriend,Address)

values('Ajay Vats','22 E Shashtri Nagar, Meerut')

insert Friends(NameOfFriend,Address)

values('Reema Jain','45 Rajpur Road, Dehradun')

insert Friends(Address)

values('22 E Shashtri Nagar, Meerut')

insert Friends(NameOfFriend)

values('Geeta Jain')

USE MASTER

--System Procedure (function)

sp\_addlogin @loginame='USER1',@password='user1007',defdb='FRIEND'

sp\_addlogin 'USER1','user1007','FRIEND'

go

USE FRIEND

sp\_grantdbaccess 'USER1'

uioo

USE AdventureWorks

sp\_grantdbaccess 'USER1'

USE master

sp\_grantlogin 'RGPGADMIN-PC\ENOSH'

sp\_defaultdb 'RGPGADMIN-PC\ENSOH','master'

---DATE 12/05/2016

DROP TABLE ACCOUNTS

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL PRIMARY KEY CLUSTERED,

FIRST\_NAME VARCHAR(15) NOT NULL,

MIDDLE\_NAME VARCHAR(15) NULL DEFAULT 'KUMAR',

LAST\_NAME VARCHAR(15) NOT NULL,

ADDRESS VARCHAR(80) NOT NULL,

CITY VARCHAR(30) NOT NULL DEFAULT 'MEERUT',

PIN\_CODE CHAR(6) DEFAULT '250002',

STATE VARCHAR(25) NOT NULL,

BIRTH\_DATE DATETIME NOT NULL,

PHONE\_NO VARCHAR(15),

BALANCE MONEY NOT NULL DEFAULT 5000,

OPENING\_DATE DATETIME NOT NULL DEFAULT GETDATE(),

AC\_TYPE VARCHAR(30)

)

SELECT GETDATE()

DROP TABLE ACCOUNTS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,STATE,BIRTH\_DATE,PHONE\_NO,AC\_TYPE)

VALUES('A00001','AJAY','KUMAR','SHARMA','33 D SAKET','UTTAR PRADESH','08/22/1980','9837371123','SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00002','VIJAY','MUKESH','SHARMA','3 4 D SAKET','DELHI','250001','UTTAR PRADESH','11/24/1982','9837371155',11000.00,'04/15/2015','SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00003','AMIT','SHARMA','34 D RAJPUR ROAD','DEHRADUN','228179','UTTARAKHAND','12/27/1992','8837371155',2000.00,'04/19/2015','SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00002','RAJESH','KUMAR','SHARMA','34 D RAJPUR ROAD','DEHRADUN','228179','UTTARAKHAND','12/27/1992','8837371155',11000.00,'04/19/2015','CURRENT')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00005','MUKESH',NULL,'SHARMA','34 D RAJPUR ROAD','DEHRADUN','228179','UTTARAKHAND','12/27/1992','8837371155',4000.00,'04/19/2015','CURRENT')

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,

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

)

SELECT \* FROM ACCOUNTS

SELECT \* FROM TRANSACTIONS

DROP TABLE TRANSACTIONS

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

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

UPDATE ACCOUNTS

SET BALANCE = BALANCE + 2000.00

WHERE ACNO = 'A00001'

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

VALUES('T0000002','A00008',500.00,'04/16/2015','WITHDRAWL')

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

VALUES('T0000004','A00002',4000.00,'04/16/2015','WITHDRAWL')

UPDATE ACCOUNTS

SET BALANCE = BALANCE - 4000.00

WHERE ACNO = 'A00002'

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

VALUES('T0000005','A00002',1000.00,'04/16/2015','WITHDRAWL')

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

VALUES('T0000006','A00002',7000.00,'04/16/2015','WITH')

DROP TABLE TRANSACTIONS

CREATE TABLE TRANSACTIONS

(

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

ACNO CHAR(6) NOT NULL CONSTRAINT FK\_ACNO FOREIGN KEY REFERENCES ACCOUNTS(A NO),

AMOUNT MONEY NOT NULL,

TRAN\_DATE DATETIME NOT NULL,

TRAN\_TYPE VARCHAR(15) NOT NULL

)

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')

UPDATE ACCOUNTS

SET BALANCE = BALANCE + 2000.00

WHERE ACNO = 'A00001'

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

VALUES('T0000003','A00002',700.00,'04/16/2015','WITHDRAWL')

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 ,

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,BALANCE,AC\_TYPE)

VALUES('A00003','VINITA','JAIN',2000.00,'NOTHING')

ALTER TABLE ACCOUNTS

ADD OPENING\_DATE DATETIME

ALTER TABLE ACCOUNTS

DROP COLUMN OPENING\_DATE

UPDATE ACCOUNTS

SET OPENING\_DATE = '04/18/2015'

WHERE ACNO = 'A00001'

DROP TABLE TRANSACTIONS

DROP TABLE DBO.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]'),

FIRST\_NAME VARCHAR(15) NOT NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

BALANCE MONEY NOT NULL DEFAULT 500 CONSTRAINT CHK\_BALENCE CHECK(BALANCE >=0),

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

PHONE\_NO VARCHAR(15) NULL CONSTRAINT CHK\_PHONE CHECK(PHONE\_NO LIKE '([0-9][0-9][0-9])-[0-9][0-9][0-9][0-9][0-9][0-9][0-9]'),

ONLINE\_BANKING BIT

)

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE,PHONE\_NO,ONLINE\_BANKING)

VALUES('A00001','AJAY','SHARMA',5000.00,'SAVING','(121)-2657789',1)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,BALANCE,AC\_TYPE,PHONE\_NO,ONLINE\_BANKING)

VALUES('A00002','JAY','SHARMA',200.00,'SAVING',1212421167,1)

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,AC\_TYPE,PHONE\_NO,ONLINE\_BANKING)

VALUES('A00003','JAY','SHARMA','SAVING',NULL,1)

CREATE TABLE ACCOUNTS

(

ACNO CHAR(6) NOT NULL PRIMARY KEY,

FIRST\_NAME VARCHAR(15) NOT NULL,

MIDDLE\_NAME VARCHAR(15) NULL,

LAST\_NAME VARCHAR(15) NOT NULL,

ADDRESS VARCHAR(80) NOT NULL,

CITY VARCHAR(30) NOT NULL,

PIN\_CODE CHAR(6),

STATE VARCHAR(25) NOT NULL,

BIRTH\_DATE DATETIME NOT NULL,

PHONE\_NO VARCHAR(15),

BALANCE MONEY NOT NULL,

OPENING\_DATE DATETIME NOT NULL,

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

)

DROP TABLE ACCOUNTS

SELECT \* FROM ACCOUNTS

INSERT ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00001','AJAY','KUMAR','SHARMA','33 D SAKET','MEERUT','250001','UTTAR PRADESH','08/22/1980','9837371123',15000.00,'04/15/2015','SAVING')

INSERT INTO ACCOUNTS(ACNO,FIRST\_NAME,MIDDLE\_NAME,LAST\_NAME,ADDRESS,CITY,PIN\_CODE,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00002','VIJAY','KUMAR','SHARMA','34 D SAKET','MEERUT','250001','UTTAR PRADESH','11/24/1982','9837371155',11000.00,'04/15/2015','CURRENT')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,ADDRESS,CITY,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00003','REEMA','SHARMA','67 D SHASHTRI NAGAR','MEERUT','UTTAR PRADESH','12/27/1990','8837371155',16000.00,'04/15/2015','SAVING')

INSERT ACCOUNTS(ACNO,FIRST\_NAME,LAST\_NAME,ADDRESS,CITY,STATE,BIRTH\_DATE,PHONE\_NO,BALANCE,OPENING\_DATE,AC\_TYPE)

VALUES('A00004','ANITA','BANSAL','67 D SHASHTRI NAGAR','MEERUT','UTTAR PRADESH','12/27/1990','8837371155',16000.00,'04/15/2015','SAVING')

INSERT ACCOUNTS

VALUES('A00004','SEEMA',NULL,'BHARDWAJ','11 RAJPUR ROAD','DEHRADUN','248179','UTTARAKHAND','01/24/1982','8856371155',9000.00,'04/15/2015')

DROP TABLE TRANSACTIONS

CREATE TABLE TRANSACTIONS

(

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

ACNO CHAR(6) NOT NULL FOREIGN KEY REFERENCES ACCOUNTS(ACNO),

AMOUNT MONEY NOT NULL,

TRAN\_DATE DATETIME NOT NULL,

TRAN\_TYPE VARCHAR(15) NOT NULL

)

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')

UPDATE ACCOUNTS

SET BALANCE = BALANCE + 2000.00

WHERE ACNO = 'A00001'

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

VALUES('T0000002','A00002',500.00,'04/16/2015','WITHDRAWL')

UPDATE ACCOUNTS

SET BALANCE = BALANCE - 500.00

WHERE ACNO = 'A00002'

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

VALUES('T0000003','A00002',3000.00,'04/16/2015','DEPOSIT')

--INDEX

CREATE TABLE FRIENDS

(

FRIEND\_ID INT PRIMARY KEY,

FRIEND\_NAME VARCHAR(50),

ADDRESS VARCHAR(50)

)

-- PRIMARY APPLY UNIQUE CLUSTERED INDEX

--CLUSTERED INDEX DO SORTING

CREATE TABLE FRIENDS

(

FRIEND\_ID INT IDENTITY(101,1) PRIMARY KEY,

FRIEND\_NAME VARCHAR(50),

ADDRESS VARCHAR(50)

)

INSERT FRIENDS(FRIEND\_NAME,ADDRESS)

VALUES('HILARY CILNTON','45 WHITE HOUSE US')