**ASSIGNMENTS 02**

**Q1**: Create the tables (with the most appropriate/economic field/column constraints & types) and add at least 10 records into each created table.

create database Fsoft

GO

USE Fsoft

GO

CREATE TABLE TRAINEE

(

ID CHAR(7) PRIMARY KEY,

FULL\_NAME varchar(40) NULL,

BIRTH\_DATE SMALLDATETIME NULL,

GENDER VARCHAR(20) NULL,

ET\_IQ INT NULL,

ET\_GMATH INT NULL,

ET\_ENGLISH INT NULL,

TRAINING\_CLASS CHAR(7),

EVALUATION\_NOTES varchar(100) NULL,

)

ALTER TABLE TRAINEE ADD CONSTRAINT CHECK\_G CHECK(GENDER = 'Nam' Or GENDER = 'Nu')

ALTER TABLE TRAINEE ADD CONSTRAINT CHECK\_IQ CHECK(ET\_IQ >= 0 Or ET\_IQ <= 20)

ALTER TABLE TRAINEE ADD CONSTRAINT CHECK\_GMATH CHECK(ET\_GMATH >= 0 Or ET\_GMATH <= 20)

ALTER TABLE TRAINEE ADD CONSTRAINT CHECK\_ENG CHECK(ET\_ENGLISH >= 0 Or ET\_ENGLISH <= 50)

insert into TRAINEE values ('1','Nguyen Van A','1960/11/22','Nam',10,16,20, '01','')

insert into TRAINEE values ('2','Nguyen Van B','1990/2/23','Nu',20,10,50, '02','')

insert into TRAINEE values ('3','Nguyen Van C','1980/10/12','Nam',10,16,20, '03','')

insert into TRAINEE values ('4','Nguyen Van D','1983/5/28','Nam',17,10,20, '04','')

insert into TRAINEE values ('5','Nguyen Van E','1985/11/22','Nam',20,20,30, '05','')

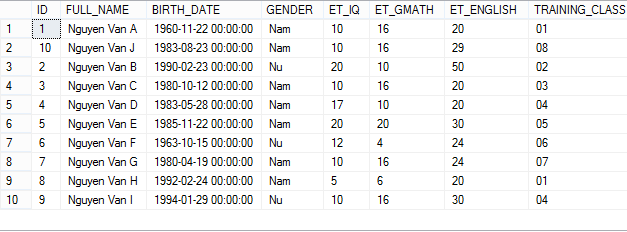
insert into TRAINEE values ('6','Nguyen Van F','1963/10/15','Nu',12,4,24, '06','')

insert into TRAINEE values ('7','Nguyen Van G','1980/4/19','Nam',10,16,24, '07','')

insert into TRAINEE values ('8','Nguyen Van H','1992/2/24','Nam',5,6,20, '01','')

insert into TRAINEE values ('9','Nguyen Van I','1994/1/29','Nu',10,16,30, '04','')

insert into TRAINEE values ('10','Nguyen Van J','1983/8/23','Nam',10,16,29, '08','')



**Q2**: Change the table TRAINEE to add one more field named Fsoft\_Account which is a not-null & unique field.

ALTER TABLE TRAINEE ADD Fsoft\_Account CHAR(12)

ALTER Table TRAINEE alter column Fsoft\_Account nchar(50) not null

ALTER TABLE TRAINEE ADD CONSTRAINT PK\_f UNIQUE(Fsoft\_Account)

**Q3**: Create a VIEW which includes all the ET-passed trainees. One trainee is considered as ET-passed when he/she has the entry test points satisfied below criteria:

GO

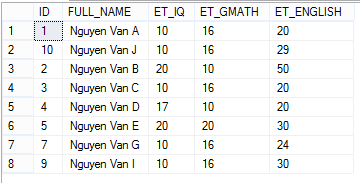
SELECT ID, FULL\_NAME, ET\_IQ,ET\_GMATH,ET\_ENGLISH

FROM TRAINEE

WHERE TRAINEE.ET\_IQ + TRAINEE.ET\_GMATH >=20 AND

TRAINEE.ET\_IQ >=8 AND TRAINEE.ET\_GMATH >= 8 AND

TRAINEE.ET\_ENGLISH >=18



**Q4**: Query all the trainees who is passed the entry test, group them into different birth months.

GO

SELECT MONTH(BIRTH\_DATE) [THÁNG]

FROM TRAINEE

WHERE TRAINEE.ET\_IQ + TRAINEE.ET\_GMATH >=20 AND

TRAINEE.ET\_IQ >=8 AND TRAINEE.ET\_GMATH >= 8 AND

TRAINEE.ET\_ENGLISH >=18

GROUP BY MONTH(BIRTH\_DATE)

