Assignment 2\_Opt1

Question 1:

CREATE TABLE TRAINEE

(

ID CHAR(7) PRIMARY KEY,

FULL\_NAME nvarchar(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 CK\_Gender CHECK(GENDER = 'Nam' Or GENDER = 'Nu')

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

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

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

insert into TRAINEE values ('1',N'Trần Dương Dương','1961/1/21','Nam',10,16,20, '01','')

insert into TRAINEE values ('2',N'Trần Đình Hạo','1990/11/22','Nu',20,20,50, '02','')

insert into TRAINEE values ('3',N'Trần Đình Phong','1980/7/27','Nam',10,16,20, '03','')

insert into TRAINEE values ('4',N'Nguyễn Bách Thảo','1983/10/22','Nu',10,10,20, '04','')

insert into TRAINEE values ('5',N'Bùi Xuyến Hằng','1985/5/7','Nu',20,20,30, '05','')

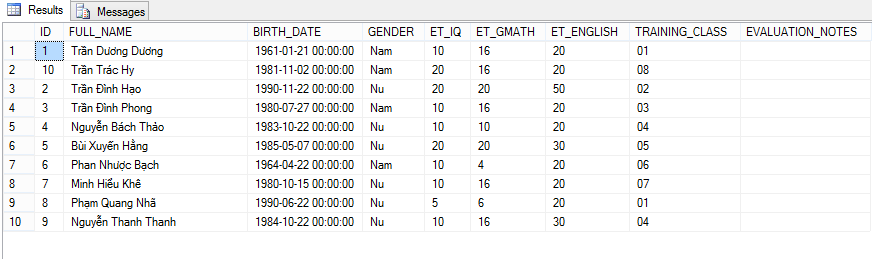
insert into TRAINEE values ('6',N'Phan Nhược Bạch','1964/4/22','Nam',10,4,20, '06','')

insert into TRAINEE values ('7',N'Minh Hiểu Khê','1980/10/15','Nu',10,16,20, '07','')

insert into TRAINEE values ('8',N'Phạm Quang Nhã','1990/6/22','Nu',5,6,20, '01','')

insert into TRAINEE values ('9',N'Nguyễn Thanh Thanh','1984/10/22','Nu',10,16,30, '04','')

insert into TRAINEE values ('10',N'Trần Trác Hy','1981/11/2','Nam',20,16,20, '08','')

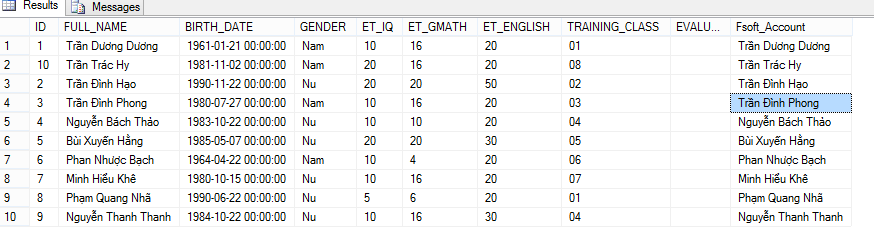


Question 2:

ALTER TABLE TRAINEE ADD Fsoft\_Account CHAR(12)

ALTER table TRAINEE alter column Fsoft\_Account nvarchar(50) not null

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



Question 3:

CREATE VIEW ET\_PASS\_TRAINEE

AS

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

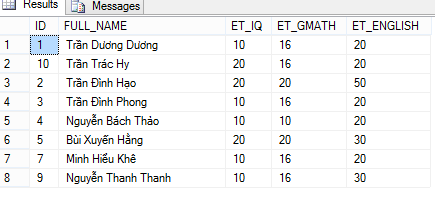
FROM TRAINEE

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

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

TRAINEE.ET\_ENGLISH >=18

SELECT \*FROM ET\_PASS\_TRAINEE



Question 4:

SELECT MONTH(BIRTH\_DATE) [THÁNG]

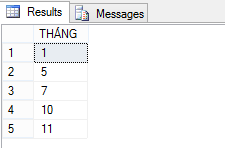
FROM TRAINEE

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)



Question 5:

SELECT LEN(FULL\_NAME),ID ,FULL\_NAME, BIRTH\_DATE,GENDER,ET\_IQ ,ET\_GMATH ,ET\_ENGLISH ,TRAINING\_CLASS, DateDiff( YEAR, BIRTH\_DATE , GetDate())[AGE]

FROM TRAINEE

GROUP BY LEN(FULL\_NAME),ID ,FULL\_NAME, BIRTH\_DATE,GENDER,ET\_IQ ,ET\_GMATH ,ET\_ENGLISH ,TRAINING\_CLASS

HAVING LEN(TRAINEE.FULL\_NAME) =

(

SELECT TOP 1 LEN(TRAINEE.FULL\_NAME)

FROM TRAINEE

ORDER BY LEN(TRAINEE.FULL\_NAME) DESC

)

