-- one to one

--CREATE DATABASE StepDb

--GO

--USE StepDb

--GO

--CREATE TABLE Passports(

--[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

--[SeriaNo] NVARCHAR(30) NOT NULL,

--[FinCode] NVARCHAR(30) NOT NULL

--)

--GO

--CREATE TABLE Persons(

--[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

--[Name] NVARCHAR(30) NOT NULL,

--[Surname] NVARCHAR(30) NOT NULL,

--[Age] INT NOT NULL,

--[PassportId] INT FOREIGN KEY REFERENCES Passports(Id) NOT NULL,

--UNIQUE([PassportId])

--)

--SELECT \* FROM Passports

--INSERT INTO Passports([SeriaNo],[FinCode])

--VALUES('AA1214','3F4R5T')

--INSERT INTO Persons([Name],[Surname],[Age],[PassportId])

--VALUES('Elvin','Camalzade',23,1)

--SELECT \* FROM Persons

SELECT \* FROM Passports AS PA ,Persons AS P

WHERE P.Id=1

-- one to many

GO

CREATE TABLE Groups(

[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

[Name] NVARCHAR(30) NOT NULL

)

GO

CREATE TABLE Students(

[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

[Name] NVARCHAR(30) NOT NULL,

[Score] INT,

[GroupId] INT FOREIGN KEY REFERENCES Groups(Id) NOT NULL

)

INSERT INTO Groups([Name])

VALUES('FSDA\_1225')

SELECT \* FROM Groups

INSERT INTO Students([Name],[Score],[GroupId])

VALUES('Nurlan',90,1),('Huseyn',91,1),

('Sevil',90,2),('Amin',91,2)

--SELECT \* FROM Groups

--SELECT \* FROM Students

--SELECT \* FROM Students AS S,Groups AS G

--WHERE S.GroupId=G.Id

-- many to many

--CREATE TABLE Books(

--[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

--[Name] NVARCHAR(30) NOT NULL

--)

--CREATE TABLE Authors(

--[Id] INT PRIMARY KEY IDENTITY(1,1) NOT NULL,

--[Fullname] NVARCHAR(30) NOT NULL

--)

--CREATE TABLE BooksAuthors(

--BookId INT FOREIGN KEY REFERENCES Books(Id) NOT NULL,

--AuthorId INT FOREIGN KEY REFERENCES Authors(Id) NOT NULL

--)

--INSERT INTO Books([Name])

--VALUES('C++'),('C#')

--INSERT INTO Authors([Fullname])

--VALUES('John Johnlu'),('Eli Eliyev')

--INSERT INTO BooksAuthors([AuthorId],[BookId])

--VALUES(1,1),(1,2),(2,1),(2,2)

--select \* from Books

--select \* from Authors

--SELECT \* FROM Authors AS A,Books AS B,BooksAuthors AS BA

--WHERE A.Id=BA.AuthorId AND B.Id=BA.BookId

--SELECT A.Fullname,B.[Name] AS BookName FROM Authors AS A,Books AS B,BooksAuthors AS BA

--WHERE A.Id=BA.AuthorId AND B.Id=BA.BookId AND B.[Name]='C++'

--SELECT BA.AuthorId,A.Fullname,COUNT(\*) AS BookCount FROM Authors AS A,Books AS B,BooksAuthors AS BA

--WHERE A.Id=BA.AuthorId AND B.Id=BA.BookId

--GROUP BY BA.AuthorId,A.Fullname

--SELECT BA.AuthorId,A.Fullname,COUNT(\*) AS BookCount FROM Authors AS A,Books AS B,BooksAuthors AS BA

--WHERE A.Id=BA.AuthorId AND B.Id=BA.BookId

--GROUP BY BA.AuthorId