**FOREIGN KEY**

-- when there are muiltple entities in one table, it may create

-- duplicate records (like patient and doctor data in one table)

-- so it is better to separate those 2 entities and make a new tables

-- for them. and to maintain a relationship between those tables we use primary

-- key of one table as foreign key in another table

use my\_db;

create table doctor(

did int primary key,

dname varchar(20),

dcity varchar(20),

dphone varchar(20)

);

insert into doctor values

(1,"Dr Amit","pune","9856985695"),

(2,"Dr Sumit","thane","9856985625");

select \* from doctor;

create table patient(

pid int primary key,

did int, -- this will be my column act as FK to maintain ralationship between doctor and patient

pname varchar(20),

pcity varchar(20),

pphone varchar(20),

constraint fk\_did foreign key(did)

references doctor(did)

);

desc patient;

insert into patient values

(10,1,"raj","delhi","4585698563"),

(12,2,"rani","pune","4585698545"),

(13,1,"kumar","thane","4585698561"),

(14,1,"rajat","delhi","4585698512"),

(18,2,"ritesh","thane","4585698564");

select \* from patient;