Create database:

create database clinic\_management;

Create tables:

create table Patient(

P\_id int(20) PRIMARY key AUTO\_INCREMENT,

F\_name varchar(50),

M\_name varchar(50),

L\_name varchar(50),

Sex varchar(10),

Address varchar(255),

Dob date

)engine=INNODB;

create table Appointment(

A\_id int(20) primary key AUTO\_INCREMENT,

N\_id int(20),

D\_id int(20),

A\_date date,

A\_time time

)ENGINE=INNODB;

create table Nurse(

N\_id int(20) primary key AUTO\_INCREMENT,

F\_name varchar(50),

M\_name varchar(50),

L\_name varchar(50),

Experience int(20)

)engine=innodb;

create table Doctor(

D\_id int(20) primary key AUTO\_INCREMENT,

N\_id int(20),

F\_name varchar(50),

M\_name varchar(50),

L\_name varchar(50),

Qualification varchar(70),

Experience int(20),

S\_id int(20)

)engine=INNODB;

create table Appointment\_taken(

P\_id int(20),

A\_id int(20)

)engine=innodb;

create table Patient\_history(

P\_id int(20),

P\_history varchar(255)

)engine=innodb;

create table Appoint\_reason(

A\_id int(20),

Reason varchar(255)

)engine=innodb;

create table Specialization\_doc(

S\_id int(20),

Specialization varchar(50)

)engine=innodb;

Alter

alter table appointment\_taken

add foreign KEY(P\_id) REFERENCES patient(P\_id)

alter table appointment\_taken

add foreign KEY(A\_id) REFERENCES appointment(A\_id)

alter table patient\_history

add foreign KEY(P\_id) REFERENCES patient(P\_id)

alter table appoint\_reason

add foreign KEY(A\_id) REFERENCES appointment(A\_id)

alter table doctor

add foreign KEY(S\_id) REFERENCES specialization\_doc(S\_id)

alter table doctor

add foreign KEY(N\_id) REFERENCES nurse(N\_id)

alter table appointment

add foreign KEY(N\_id) REFERENCES nurse(N\_id)

alter table appointment

add foreign KEY(D\_id) REFERENCES doctor(D\_id)

View: doc\_patient

create view doc\_patient AS

SELECT patient.P\_id, patient.F\_name, appointment.D\_id,appointment.A\_date,appointment.A\_time,doctor.DF\_name

from patient,appointment,doctor

where patient.P\_id=appointment.A\_id and appointment.D\_id=doctor.D\_id

Trigger:paitent

CREATE trigger p\_age before insert on patient

for each row

insert into patient\_age

set action="insert",

id=new.P\_id,

P\_age=year(CURRENT\_DATE)-year(`Dob`);

DELIMITER $$

CREATE trigger after\_insert\_users

after insert on users

for each ROW

BEGIN

INSERT INTO `users\_backup`(`uid`, `u\_userame`, `u\_password`, `U\_type`) VALUES (new.'uid',new.'u\_userame',new.'u\_password',new.'U\_type');

END $$

DELIMITER ;

Inner join:Nurse

SELECT a.`A\_id`,a.`A\_date`,a.`A\_time`,ar.Reason ,d.DF\_name

FROM `appointment` as a

inner join appoint\_reason as ar

inner join doctor as d

WHERE a.A\_id=ar.A\_id and a.`D\_id`=d.D\_id;

Joins appointment taken, appointment reason and doctor

Inner join:Doctor

SELECT dp.P\_id,dp.F\_name,ph.P\_history,dp.A\_date,dp.A\_time FROM `doc\_patient` as dp INNER join patient\_history as ph WHERE dp.P\_id=ph.P\_id and dp.DF\_name='William';

Joins doc\_patient and patient\_history