Design at least 10 SQL queries for suitable database application using SQL DML statements:

all types of Joins, Sub-Query and View.

1. Create table physician (reg\_no primary, name, tel\_no, city).
2. Create table patient (p\_id int primary, p\_name varchar(10), street varchar(10), city varchar(10)).
3. create table visit ( reg\_no int,p\_id int,date\_of\_visit date, fee int, FOREIGN KEY (p\_id) REFERENCES patient(p\_id), FOREIGN KEY (reg\_no) REFERENCES physician(reg\_no)).
4. Find name and city of patient who visited a physician on 13 July 2017.
5. Get the name of physician and total number of patients visited him.
6. Get the details of date wise fees collected at clinic group by date\_of\_visit.
7. Take join of physician and visit (inner, left, right, full outer join)

[reg\_no, name, p\_id, date\_of\_visit].

1. Take join of patient and visit (inner, left, right, full outer join) [p\_name, city, reg\_no, date\_of\_visit].
2. Create view for date wise fees collected at clinic. Apply operations on view.
3. Create view on patient (p\_name, reg\_no, date\_of\_visit).Apply operations on view.

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1. Find name and city of patient who visited a physician on 13 July 2017.

select p\_name , city from patient where p\_id=(select p\_id from visit where date\_of\_visit='2017-07-13');

1. Get the name of physician and total number of patients visited him.

SELECT p.name ,count(v.p\_id) FROM physician p,visit v where p.reg\_no=v.reg\_no GROUP BY p.name ;

1. Get the details of date wise fees collected at clinic group by date\_of\_visit.

mysql> SELECT date\_of\_visit,sum(fee) FROM visit GROUP BY date\_of\_visit;