Q.6 The following tables form part of a database held in a relational DBMS:

Hotel (HotelNo, Name, City)

Room (RoomNo, HotelNo, Type, Price)

Booking (HotelNo, GuestNo, DateFrom, DateTo, RoomNo)

Guest (GuestNo, GuestName, GuestAddress)

create table Hotel(hotelno varchar(20) primary key , name varchar(40), city varchar (40));

create table Room(roomno varchar(20)primary key,hotelno varchar (20),type varchar(20),price varchar(20));

create table Booking(hotelno varchar(20),guestno varchar(20),datefrom varchar(20),dateto varchar(20),roomno varchar(20));

create table Guest(guestno varchar(20)primary key,guestname varchar(20),guestaddress varchar(50));

insert into Hotel(hotelno,name,city)values ('01','Grosvenor','Newyork');

insert into Hotel(hotelno,name,city)values ('02','Indigo','Delhi');

insert into Hotel(hotelno,name,city)values ('03','Zen','London');

insert into Hotel(hotelno,name,city)values ('04','Italia','Chikago');

insert into Hotel(hotelno,name,city)values ('05','Bukhara','Los Angeles');

insert into Room(roomno,hotelno,type1,price)values('11','01','double','12000');

insert into Room(roomno,hotelno,type1,price)values('13','01','presedential suit','100000');

insert into Room(roomno,hotelno,type1,price)values('14','03','deluxe','8000');

insert into Room(roomno,hotelno,type1,price)values('15','04','studio','15000');

insert into Room(roomno,hotelno,type1,price)values('16','05','family','14000');

insert into Booking (hotelno,guestno,datefrom,dateto,roomno)values('01','22','2022/08/02','2022/08/03','11');

insert into Booking (hotelno,guestno,datefrom,dateto,roomno)values('01','23','2021/10/04','2021/10/05','13');

insert into Booking (hotelno,guestno,datefrom,dateto,roomno)values('03','24','2020/07/08','2020/07/09','14');

insert into Booking (hotelno,guestno,datefrom,dateto,roomno)values('05','25','2022/08/07','2022/08/08','16');

insert into Guest(guestno,guestname,guestaddress) values ('23','ABC','Newyork');

insert into Guest(guestno,guestname,guestaddress) values ('24','ABC','London');

insert into Guest(guestno,guestname,guestaddress) values ('25','ABC','Delhi');

insert into Guest(guestno,guestname,guestaddress) values ('22','ABC','Mumbai');

Solve following queries by SQL

1. List full details of all hotels.

select h.hotelno,h.name,h.city,r.type1,r.price from Hotel h, Room r ;

2. List full details of all hotels in London.

SELECT \* FROM Hotel WHERE city = 'London';

3. List all guests currently staying at the Grosvenor Hotel.

select \* from Booking where dateto >= '2022/11/11';

4. List the names and addresses of all guests in London, alphabetically ordered by name.

select guestname , guestaddress from Guest where guestaddress = 'London' order by guestname;

5. List the bookings for which no date\_to has been specified.

select \* from Booking where dateto = 'null';

6. How many hotels are there?

select count(name) from Hotel;

7. List the rooms that are currently unoccupied at the Grosvenor Hotel.

8. What is the lost income from unoccupied rooms at each hotel today?

9. Create index on one of the field and show is performance in query.

CREATE INDEX showON Hotel (hotelno, name);

10. Create one view on above database and query it

CREATE VIEW hotel\_view ASSELECT name, cityFROM Hotel;

UPDATE hotel\_view SET name = 'India meal' WHERE name = 'Indigo'; (query on view)

select \* from hotel\_view;