

```

-- use mock3;

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(30),dateTo
varchar(30),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,type,price)values('11','01','suit','12000');
insert into Room(roomno,hotelNo,type,price)values('13','01','presedential suit','100000');
insert into Room(roomno,hotelNo,type,price)values('14','03','deluxe','8000');
insert into Room(roomno,hotelNo,type,price)values('15','04','studio','15000');
insert into Room(roomno,hotelNo,type,price)values('16','05','super deluxe','14000');


insert into Booking
(hotelNo,guestno,datefrom,dateto,roomno)values('01','22',2022/08/02,2022/09/03,'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');

-- 1) List full details of all hotels.

select * from hotel;

-- 2) How many hotels are there?

select count(*) from hotel;

-- 3) List the price and type of all rooms at the Grosvenor Hotel.

select * from room where hotelno in (select hotelno from Hotel where name="Grosvenor");

-- 4) List the number of rooms in each hotel.

select hotelno,count(roomno) from room group by hotelno;

-- 5) Update the price of all rooms by 5%.

update Room set price = price+(price*0.05);

select * from room;

-- 6) List full details of all hotels in London.

select * from hotel where city like "London";

-- 7) What is the average price of a room?

select hotelno,avg(price) from room group by hotelno;

-- 8) List all guests currently staying at the Grosvenor Hotel.

select * from guest where guestno in (select guestno from booking where hotelno in (select hotelno from hotel where name="Grosvenor"));

-- 9) List the number of rooms in each hotel in London.

select hotelno,count(roomno) from room group by hotelno having hotelno in (select hotelno from hotel where city="London");

-- 10) Create one view on above database and query it.

```
create view myview as select name,city from hotel;
```

```
select * from myview;
```