Lab 3

**Using the Object Explorer, first create the Hotel schema defined at the start of the
Exercises at
the end of Chapter 4 and add some sample data to these tables.
If already created, then ignore this step.**

Hotel (hotelNo, hotelName, city)
Room (roomNo, hotelNo, type, price)
Booking (hotelNo, guestNo, dateFrom, dateTo, roomNo)
Guest (guestNo, guestName, guestAddress)

1) List full details of all hotels.
ANS:

SELECT * FROM hotel

2) List full details of all hotels in Fairfield.
ANS:

SELECT * FROM hotel WHERE city='fairfield'

3) List the names and addresses of all guests in Fairfield, alphabetically ordered by name.
ANS:

SELECT guestName,guestaddress FROM guest ORDER BY guestName;

**4) List all double or family rooms with a price below $50.00 per night, in ascending order
of
price.**
ANS:

*SELECT * FROM room WHERE (type='double' OR type='family') AND price <50 ORDER BY price

5) List the bookings for which no dateTo has been specified.
ANS:

SELECT * FROM booking WHERE dateTo is NULL;

6) How many hotels are there?
ANS:

SELECT COUNT(*) AS hotelCount FROM hotel

7) What is the average price of a room?
ANS:

```sql
SELECT AVG(price) AS averagePrice FROM room
```

8) What is the total revenue per night from all double rooms?
ANS:

```sql
SELECT SUM(price) FROM room Where type='double'
```

9) How many different guests have made bookings for August?
ANS:

```sql
SELECT COUNT(DISTINCT guestNo) AS differentGuest FROM booking WHERE dateFrom > '2019-10-10' AND dateTo < '2019-10-28'
```

10) List the number of rooms in each hotel.
ANS:

```sql
SELECT  hotelName,COUNT(roomNo)  AS numberofRoom FROM hotel h,room r WHERE h.hotelNo=r.hotelNo group BY hotelName
```

11) List the number of rooms in each hotel in Fairfield.
ANS:

```sql
SELECT h.hotelName,COUNT(roomNo) AS numberofrooms FROM room r,hotel h WHERE r.hotelNo=h.hotelNo AND h.city='fairfield' GROUP BY hotelName;
```

12) What is the total number of bookings for each hotel in September 2018?
ANS:

```sql
SELECT hotelName,count(hotelName) as bookedRooms FROM booking b, hotel h where b.hotelNo = h.hotelNo AND (dateFrom > '2019-10-10' AND dateTO < '2019-11-10') group by hotelName;
```