

Lab7

6.7 List full details of all hotels:

```
SELECT * FROM Hotel;
```

6.8 List full details of all hotels in London:

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

6.9 List the names and addresses of all guests living in London, alphabetically ordered by name:

```
SELECT guestName, guestAddress FROM Guest g city  
WHERE guestAddress = 'London'  
ORDER BY g.guestName;
```

6.10 List all double or family rooms with a price below £40.00 per night, in ascending order of price:

```
SELECT * FROM Room WHERE type IN ('double', 'family') AND price < 40.000  
ORDER BY price;
```

6.11 List the bookings for which no dateTo has been specified:

```
SELECT * FROM Booking WHERE dateTo is NULL;
```

6.12 How many hotels are there?

```
SELECT COUNT(*) FROM Hotel;
```

6.13 What is the average price of a room?

```
SELECT AVG(price) FROM Room;
```

6.14 What is the total revenue per night from all double rooms?

```
SELECT SUM(price) FROM Room
```

WHERE type = 'Double';

6.15 How many different guests have made bookings for August?

```
SELECT COUNT(DISTINCT guestNo) AS FROM Booking
WHERE MONTH(dateFrom) = 8 OR MONTH(dateTo) = 8;
```

6.16 List the price and type of all rooms at the Grosvenor Hotel.

```
SELECT r.price, r.type FROM Room r INNER JOIN Hotel h ON
r.hotelNo = h.hotelNo WHERE h.hotelName = 'Grosvenor';
```

6.17 List all guests currently staying at the Grosvenor Hotel

```
SELECT * FROM Guest g WHERE g.guestNo = (SELECT b.guestNo FROM Booking b
WHERE b.dateFrom <= CURRENT_DATE AND b.dateTo >= CURRENT_DATE AND b.hotelNo
= (SELECT h.hotelNo FROM Hotel h WHERE h.hotelName = 'Grosvenor'));
```

6.18 List the details of all rooms at the Grosvenor Hotel, including the name of the guest staying in the room, if the room is occupied.

```
SELECT R.roomNo, R.type, R.price, G.guestName
FROM Room R
INNER JOIN Hotel H ON R.hotelNo = H.hotelNo
INNER JOIN Booking B ON R.roomNo = B.roomNo AND R.hotelNo = B.hotelNo
INNER JOIN Guest G ON B.guestNo = G.guestNo
WHERE H.hotelName = 'Grosvenor Hotel';
```

6.19 What is the total income from bookings for the Grosvenor Hotel today?

```
SELECT SUM(R.price) AS total_income_today
FROM Booking B
INNER JOIN Hotel H ON B.hotelNo = H.hotelNo
INNER JOIN Room R ON B.roomNo = R.roomNo AND B.hotelNo = R.hotelNo
```

WHERE

H.hotelName = 'Grosvenor Hotel'

AND CURRENT_DATE BETWEEN B.dateFrom AND B.dateTo;