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 in London, alphabetically ordered by name.
   SELECT guestName, guestAddress FROM Guest WHERE address LIKE ‘%London%’
   ORDER BY guestName;
   *Strictly speaking, this would also find rows with an address like: ‘10 London Avenue, New York’.*

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 price < 40 AND type IN (‘D’, ‘F’)
   ORDER BY price;
   *(Note, ASC is the default setting).*

6.11 List the bookings for which no dateTo has been specified.
   SELECT * FROM Booking WHERE dateTo IS NULL;

---

**Aggregate Functions**

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 = ‘D’;

6.15 How many different guests have made bookings for August?
   SELECT COUNT(DISTINCT guestNo) FROM Booking
   WHERE (dateFrom <= DATE’2004-08-01’ AND dateTo >= DATE’2004-08-01’) OR
   (dateFrom >= DATE’2004-08-01’ AND dateFrom <= DATE’2004-08-31’);
Subqueries and Joins

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

```
SELECT price, type FROM Room
WHERE hotelNo =
  (SELECT hotelNo FROM Hotel
   WHERE hotelName = 'Grosvenor Hotel');
```

6.17  List all guests currently staying at the Grosvenor Hotel.

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

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.* FROM Room r LEFT JOIN
  (SELECT g.guestName, h.hotelNo, b.roomNo FROM Guest g, Booking b, Hotel h
   WHERE g.guestNo = b.guestNo AND b.hotelNo = h.hotelNo AND
```
hotelName= ‘Grosvenor Hotel’ AND

dateFrom <= CURRENT_DATE AND
dateTo >= CURRENT_DATE) AS XXX

ON r.hotelNo = XXX.hotelNo AND r.roomNo = XXX.roomNo;

6.22 List the number of rooms in each hotel.

SELECT hotelNo, COUNT(roomNo) AS count FROM Room
GROUP BY hotelNo;

6.23 List the number of rooms in each hotel in London.

SELECT hotelNo, COUNT(roomNo) AS count FROM Room r, Hotel h
WHERE r.hotelNo = h.hotelNo AND city = ‘London’
GROUP BY hotelNo;