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');

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;