**Database Management System – cs422 DE**

**Lab 6 – Week 13**  
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1. 23.17/21.17 (5th/4th edition)

(a)

SELECT r.type, r.price

FROM Room r, Hotel h

WHERE r.hotel\_number = h.hotel\_number AND h.hotel\_name = 'Grosvenor Hotel' AND r.type > I00;

This is not semantically correct because

* there is no hotel\_number named attribute in Room and Hotel relations
* type attribute or Room relation is assumed as character (e.g., S) so it cannot be filtered as greater than integer 100

(b)

SELECT g .guestNo, g .name

FROM Hotel h, Booking b, Guest g

WHERE h.hotelNo = b.hotelNo AND h.hotelName = 'Grosvenor Hotel';

This is not semantically correct because

* there is no name named attribute in Guest relation

(c)

SELECT r.roomNo, h . hotelNo

FROM Hotel h, Booking b, Room r

WHERE h .hotelNo = b.hotelNo AND h.hotelNo = 'H21' AND b.roomNo = r.roomNo AND type 'S' AND

b.hotelNo = 'H22';

This is not semantically correct because

* hotelNo is checking if it is H21 and H22 at the same time.

1. 23.18/21.18 (5th/4th edition)

(a)

SELECT r.roomNo, r.type, r.price

FROM Room r, Booking b, Hotel h

WHERE r.roomNo = b.roomNo AND b.hotelNo = h .hotelNo AND

h.hotelName = 'Grosvenor Hotel' AND r.price > 100;

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(b)

SELECT g.guestNo, g .guestName

FROM Room r, Hotel h, Booking b, Guest g

WHERE h.hotelNo=b.hotelNo AND g.guestNo=b.guestNo AND h.hotelNo = r.hotelNo AND

h.hotelName = 'Grosvenor Hotel' AND dateFrom >= ' 1-Jan-08' AND dateTo <= '31 -Dec-08';

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