**SQL> --**

**SQL> -- ---------------------------------------------------------**

**SQL> --**

**SQL> -- COMP 2714**

**SQL> -- SET 2C**

**SQL> -- Assignment Asn02**

**SQL> -- Kobunnoi, Kunlaya A00959419**

**SQL> -- Lancelei, Herradura A00960501**

**SQL> -- email: kkobunnoi@my.bcit.ca**

**SQL> -- email: lherradura@my.bcit.ca**

**SQL> --**

**SQL> -- ---------------------------------------------------------**

**SQL> -- LOAD DATABASE**

**SQL> -- START C:\Users\Kunlaya\workspace\COMP2714\Assignments\Assignment2\Asn2SetupHotels.sql**

**SQL> -- ASSIGNMENT**

**SQL> -- START C:\Users\Kunlaya\workspace\COMP2714\Assignments\Assignment2\Asn02\_KobunnoiK.sql**

**SQL> -- ---------------------------------------------------------**

**SQL> Session altered.**

**SP2-0734: unknown command beginning "Session al..." - rest of line ignored.**

**SQL> ALTER SESSION SET NLS\_DATE\_FORMAT='YYYY-MM-DD';**

**Session altered.**

**SQL> SELECT SYSDATE**

**2 FROM DUAL;**

**SYSDATE**

**----------**

**2016-09-29**

**SQL> -- Q1.**

**SQL> -- For all hotels in London, list hotel name, hotelAddress, room type and price**

**SQL> -- of all Single, Double or Family rooms with a price below 100.00 per night,**

**SQL> -- in descending order of hotelName, ascending order of price and descending order**

**SQL> -- of type. List each result entry only once.**

**SQL> --**

**SQL> SELECT DISTINCT hotelName, hotelAddress, type, price**

**2 FROM Hotel**

**3 INNER JOIN Room**

**4 ON Hotel.hotelNo = Room.hotelNo**

**5 WHERE hotelAddress LIKE '%London'**

**6 AND price BETWEEN 0 AND 100.00**

**7 AND type IN('Single', 'Double', 'Family')**

**8 ORDER BY hotelName DESC,**

**9 price ASC,**

**10 type DESC**

**11 ;**

**HOTELNAME HOTELADDRESS TYPE PRICE**

**---------------- ---------------------------------------- -------- ----------**

**Holiday Inn 56 Edinburg Square, London Single 35**

**Holiday Inn 56 Edinburg Square, London Double 50**

**Grosvenor Hotel 100 Oxford Road, London Single 40**

**6 rows selected.**

**SQL> -- Q2.**

**SQL> -- List the Vancouver hotel bookings for which no dateTo has been specified.**

**SQL> -- List the hotelName, hotelAddress, room number, dateFrom and dateTo.**

**SQL> -- Note: Hotels in West and North Vancouver should be excluded.**

**SQL> --**

**SQL> SELECT hotelName, hotelAddress, roomNo, dateTo, dateFrom**

**2 FROM Booking**

**3 NATURAL JOIN Room**

**4 NATURAL JOIN Hotel**

**5 WHERE dateTo IS NULL**

**6 AND hotelAddress LIKE '%,\_Vancouver'**

**7 ;**

**HOTELNAME HOTELADDRESS ROOMNO DATETO**

**---------------- ---------------------------------------- ---------- ----------**

**DATEFROM**

**----------**

**Meridian Hotel 789 Howe Street, Vancouver 10**

**2016-09-21**

**SQL> -- Q3.**

**SQL> -- What is the average price of a room for each hotel?**

**SQL> -- List it with the hotelName and in hotelName order.**

**SQL> --**

**SQL> SELECT hotelName,**

**2 AVG(DISTINCT price) AS "AVG(price)"**

**3 FROM Hotel**

**4 NATURAL JOIN Room**

**5 GROUP BY hotelName**

**6 ;**

**HOTELNAME AVG(price)**

**---------------- ----------**

**Grosvenor Inn 105**

**Meridian Hotel 106.666667**

**8 rows selected.**

**SQL> -- Q4.**

**SQL> -- Do this for each hotel and in one single query.**

**SQL> -- List the total revenue with the hotelName, and only if the total**

**SQL> -- revenue is between $500 to $1000 [in SQL context]. List in hotelName order.**

**SQL> --**

**SQL> SELECT hotelName, SUM(price) AS "Total Revenue"**

**2 FROM Hotel**

**3 INNER JOIN Room**

**4 ON Hotel.hotelNo = Room.hotelNo**

**5 WHERE type = 'Double'**

**6 GROUP BY hotelName**

**7 HAVING SUM(price) > 500**

**8 AND SUM(price) < 1000**

**9 ;**

**HOTELNAME Total Revenue**

**---------------- -------------**

**Park Royal Hotel 688**

**Delta Inn 900**

**The Ramada 600**

**SQL> -- Q5**

**SQL> -- List the type and price of all rooms at the hotels with 'Grosvenor'**

**SQL> -- in name, including the number of rooms for each combination of type**

**SQL> -- and price. List only if the number of rooms for each type and price**

**SQL> -- combination is greater than 3.**

**SQL> SELECT type,**

**2 price,**

**3 COUNT(roomNo) AS "Number of Rooms"**

**4 FROM Hotel**

**5 INNER JOIN Room**

**6 ON Hotel.hotelNo = Room.hotelNo**

**7 WHERE hotelName LIKE 'Grosvenor%'**

**8 GROUP BY type, price**

**9 HAVING COUNT(type) > 3**

**10 ;**

**TYPE PRICE Number of Rooms**

**-------- ---------- ---------------**

**Double 55 4**

**Double 95 5**

**6 rows selected.**

**SQL> -- Q6**

**SQL> -- Include the roomNo in the output. Use 2016-09-29 as the current date.**

**SQL> SELECT g.guestName, b.roomNo**

**2 FROM Hotel h**

**3 JOIN Booking b ON b.hotelNo = h.hotelNo**

**4 JOIN Guest g ON g.guestNo = b.guestNo**

**5 WHERE (dateTo IS NULL OR dateTo >= '2016-09-29')**

**6 AND (dateFrom <= '2016-09-29')**

**7 AND hotelName = 'Grosvenor Hotel'**

**8 ;**

**GUESTNAME ROOMNO**

**--------------- ----------**

**Peter Kennedy 5**

**Sundeep Mohan 4**

**Ivan Pratt 3**

**SQL> -- Q7**

**SQL> -- Do this question for each of the hotels with 'Grosvenor' in name.**

**SQL> -- Use 2016-09-29 as current date.**

**SQL> SELECT h.hotelName,**

**2 SUM(r.price) AS "Total Income"**

**3 FROM Booking b**

**4 JOIN Hotel h ON h.hotelNo = b.hotelNo**

**5 JOIN Room r ON r.hotelNO = h.hotelNo**

**6 AND r.roomNO = b.roomNo**

**7 WHERE h.hotelName LIKE 'Grosvenor%'**

**8 AND b.dateFrom <= DATE '2016-09-29'**

**9 AND (b.dateTo Is NULL OR dateTo >= DATE '2016-09-29')**

**10 GROUP BY h.hotelName**

**11 ;**

**HOTELNAME Total Income**

**---------------- ------------**

**Grosvenor Inn 95**

**Grosvenor Hotel 135**

**SQL> -- Q8**

**SQL> -- What is the total income for each room type from bookings for each hotel (listing hotel names) today?**

**SQL> -- Use 2016-09-29 as today's date. List in ascending order of hotel name and room type.**

**SQL> SELECT h.hotelName,**

**2 r.type ,**

**3 SUM(r.price) AS "Price"**

**4 FROM Booking b**

**5 JOIN Hotel h ON h.hotelNo = b.hotelNo**

**6 JOIN Room r ON r.hotelNo = h.hotelNo**

**7 AND r.roomNo = b.roomNo**

**8 WHERE b.dateFrom <= DATE '2016-09-29'**

**9 AND ( dateTo IS NULL OR dateto >= DATE '2016-09-29')**

**10 GROUP BY h.hotelName, r.type**

**11 ORDER BY h.hotelName ASC, r.type ASC;**

**HOTELNAME TYPE Price**

**---------------- -------- ----------**

**Grosvenor Hotel Double 55**

**Grosvenor Hotel Single 80**

**Grosvenor Inn Double 95**

**Holiday Inn Single 35**

**Meridian Hotel Deluxe 150**

**SQL> -- Q9**

**SQL> -- List the new hotels that are still under construction, i.e. no room data in the database as yet for these hotels.**

**SQL> --**

**SQL> SELECT h.hotelName**

**2 FROM Hotel h**

**3 LEFT JOIN Room r**

**4 ON h.hotelNo = r.hotelNo**

**5 WHERE r.hotelNo IS NULL;**

**HOTELNAME**

**----------------**

**Olympic Resort**

**Royale London**

**SQL> -- Q10**

**SQL> -- What is the percentage of hotels still under construction? List the total number of hotels, number of hotels**

**SQL> -- completed, the number of hotels under construction, and the percentage of hotels under construction. NO SUBQUERY.**

**SQL> SELECT COUNT(DISTINCT h.hotelNo) AS " Number Of Hotels ",**

**2 COUNT(DISTINCT r.hotelNo) AS "Completed Hotels",**

**3 ((COUNT (DISTINCT h.hotelNo))**

**4 -(COUNT (DISTINCT r.hotelNo))**

**5 ) AS Construction,**

**6 (((COUNT(DISTINCT h.hotelNo)) -(COUNT (DISTINCT r.hotelNo)))**

**7 /(COUNT (DISTINCT h.hotelNo))**

**8 \* 100**

**9 ) AS PercentConst**

**10 FROM Hotel h**

**11 LEFT JOIN Room r ON h.hotelNo = r.hotelNo**

**12 ;**

**Number Of Hotels Completed Hotels CONSTRUCTION PERCENTCONST**

**------------------ ---------------- ------------ ------------**

**10 8 2 20**

**SQL> SPOOL OFF**