**-- COMP 2714**

**-- SET 2A**

**-- Assignment Asn02**

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**SQL>**

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

**Session altered.**

**SQL>**

**SQL> SELECT SYSDATE**

**2 FROM DUAL;**

**SYSDATE**

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

**2019-01-21**

**SQL>**

**SQL> -- Question 1:**

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

**2 FROM Hotel**

**3 INNER JOIN Room**

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

**5 WHERE country = 'France'**

**6 AND type = ANY ('Single', 'Double', 'Family')**

**7 AND price < 100.00**

**8 ORDER BY hotelName DESC,**

**9 price ASC,**

**10 type DESC;**

**HOTELNAME HOTELADDRESS TYPE PRICE**

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

**Holiday Inn 56 Rue Bonaparte, Paris Single 35**

**Holiday Inn 56 Rue Bonaparte, Paris Double 50**

**Grosvenor Hotel 100 Rue St. Dominique, Paris Single 40**

**Grosvenor Hotel 100 Rue St. Dominique, Paris Double 55**

**Grosvenor Hotel 100 Rue St. Dominique, Paris Family 85**

**Grosvenor Hotel 100 Rue St. Dominique, Paris Family 90**

**6 rows selected.**

**SQL>**

**SQL> -- Question 2:**

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

**2 FROM Hotel**

**3 INNER JOIN Booking**

**4 ON Hotel.hotelNo = Booking.hotelNo**

**5 WHERE dateTo IS NULL**

**6 AND hotelAddress LIKE '%Surrey'**

**7 AND hotelAddress NOT LIKE '%North Surrey'**

**8 AND hotelAddress NOT LIKE '%South Surrey';**

**HOTELNAME HOTELADDRESS ROOMNO DATEFROM**

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

**Holiday Hotel 789 Paris St.,Surrey 10 2019-01-21**

**SQL>**

**SQL> -- Question 3a:**

**SQL> SELECT hotelName, AVG(price) AS AVERAGE\_PRICE**

**2 FROM Room INNER JOIN Hotel**

**3 ON Room.hotelNo = Hotel.hotelNo**

**4 GROUP BY hotelName**

**5 ORDER BY hotelName ASC;**

**HOTELNAME AVERAGE\_PRICE**

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

**Delta Inn 75**

**Grosvenor Hotel 69.6153846**

**Grosvenor Inn 105**

**Holiday Hotel 100.833333**

**Holiday Inn 41.4285714**

**Imperial Palace 115**

**Park Royal Hotel 67**

**The Ramada 162.5**

**8 rows selected.**

**SQL>**

**SQL> -- Question 3b:**

**SQL> SELECT country, hotelName, AVG(price) AS AVERAGE\_PRICE**

**2 FROM Hotel**

**3 INNER JOIN Room**

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

**5 WHERE type <> 'Deluxe'**

**6 GROUP BY country, hotelName**

**7 ORDER BY country ASC,**

**8 hotelName ASC;**

**COUNTRY HOTELNAME AVERAGE\_PRICE**

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

**Canada Delta Inn 75**

**Canada Grosvenor Inn 88.3333333**

**Canada Holiday Hotel 84.4444444**

**Canada Imperial Palace 100**

**Canada Park Royal Hotel 67**

**France Grosvenor Hotel 55.5**

**France Holiday Inn 41.4285714**

**USA The Ramada 127.272727**

**8 rows selected.**

**SQL>**

**SQL> -- Question 4:**

**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) >= 500.00**

**8 AND SUM(price) <= 1000.00**

**9 ORDER BY hotelName ASC;**

**HOTELNAME TOTAL\_REVENUE**

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

**Delta Inn 900**

**Park Royal Hotel 688**

**The Ramada 600**

**SQL>**

**SQL> -- Question 5:**

**SQL> SELECT hotelName, type, price, COUNT(\*) AS NUMBER\_OF\_ROOMS**

**2 FROM Hotel**

**3 INNER JOIN Room**

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

**5 WHERE hotelName LIKE 'Grosvenor%'**

**6 HAVING COUNT(\*) > 3**

**7 GROUP BY hotelName, type, price**

**8 ORDER BY hotelName,**

**9 type,**

**10 price;**

**HOTELNAME TYPE PRICE NUMBER\_OF\_ROOMS**

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

**Grosvenor Hotel Double 55 4**

**Grosvenor Hotel Single 40 4**

**Grosvenor Inn Deluxe 155 5**

**Grosvenor Inn Double 95 5**

**Grosvenor Inn Family 125 5**

**Grosvenor Inn Single 45 5**

**6 rows selected.**

**SQL>**

**SQL> -- Question 6:**

**SQL> SELECT DISTINCT hotelName, Booking.roomNo, guestName, dateFrom, dateTo**

**2 FROM Hotel**

**3 INNER JOIN Booking**

**4 ON Hotel.hotelNo = Booking.hotelNo**

**5 INNER JOIN Guest**

**6 ON Guest.guestNo = Booking.guestNo**

**7 INNER JOIN Room**

**8 ON Hotel.hotelNo = Room.hotelNo**

**9 WHERE hotelName LIKE '%Grosvenor Hotel'**

**10 AND dateFrom <= DATE'2019-01-21'**

**11 AND (dateTo IS NULL OR dateTo >= Date'2019-01-21')**

**12 ORDER BY roomNo ASC;**

**HOTELNAME ROOMNO GUESTNAME DATEFROM DATETO**

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

**Grosvenor Hotel 4 Sundeep Mohan 2019-01-21 2019-02-24**

**Grosvenor Hotel 7 Rick Hamilton 2019-01-16 2019-01-24**

**SQL>**

**SQL> -- Question 7:**

**SQL> SELECT DISTINCT hotelName, SUM(price) AS TOTAL\_INCOME**

**2 FROM Hotel**

**3 INNER JOIN Room**

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

**5 INNER JOIN Booking**

**6 ON Hotel.hotelNo = Booking.hotelNo**

**7 AND Room.roomNo = Booking.roomNo**

**8 WHERE hotelName LIKE '%Grosvenor%'**

**9 AND dateFrom <= DATE'2019-01-21'**

**10 AND (dateTo IS NULL OR dateTo >= Date'2019-01-21')**

**11 GROUP BY hotelName**

**12 ORDER BY hotelName;**

**HOTELNAME TOTAL\_INCOME**

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

**Grosvenor Hotel 95**

**Grosvenor Inn 95**

**SQL>**

**SQL> -- Question 8:**

**SQL> SELECT Booking.hotelNo, hotelName, type, SUM(price) AS TOTAL\_INCOME, dateFrom, dateTo**

**2 FROM Hotel**

**3 INNER JOIN Room**

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

**5 INNER JOIN Booking**

**6 ON Hotel.hotelNo = Booking.hotelNo**

**7 AND Room.roomNo = Booking.roomNo**

**8 WHERE dateFrom <= DATE'2019-01-21'**

**9 AND (dateTo IS NULL OR dateTo >= Date'2019-01-21')**

**10 GROUP BY Booking.hotelNo, hotelName, type, dateFrom, dateTo**

**11 ORDER BY hotelName,**

**12 Room.type;**

**HOTELNO HOTELNAME TYPE TOTAL\_INCOME DATEFROM DATETO**

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

**1 Grosvenor Hotel Double 55 2019-01-16 2019-01-24**

**1 Grosvenor Hotel Single 40 2019-01-21 2019-02-24**

**8 Grosvenor Inn Double 95 2019-01-19 2019-02-28**

**2 Holiday Hotel Deluxe 150 2019-01-21**

**2 Holiday Hotel Family 90 2019-01-21 2019-01-23**

**SQL>**

**SQL> -- Question 9:**

**SQL> SELECT hotelName**

**2 FROM Hotel**

**3 LEFT JOIN Room**

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

**5 WHERE roomNo IS NULL**

**6 ORDER BY hotelName;**

**HOTELNAME**

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

**Olympic Resort**

**Romantic Hotel**

**Royale Paris**

**SQL>**

**SQL> -- Question 10:**

**SQL> SELECT (COUNT(DISTINCT hotelName)) AS total\_Hotels,**

**2 (COUNT (DISTINCT Room.hotelNo)) AS hotels\_Completed,**

**3 ((COUNT(DISTINCT hotelName)) - (COUNT (DISTINCT Room.hotelNo))) AS hotels\_Incomplete,**

**4 (((COUNT(DISTINCT hotelName)) - (COUNT (DISTINCT Room.hotelNo)))**

**5 / (COUNT(DISTINCT hotelName))) \* 100 AS percent\_Incomplete**

**6 FROM Hotel**

**7 LEFT JOIN Room**

**8 ON Hotel.hotelNo = Room.hotelNo;**

**TOTAL\_HOTELS HOTELS\_COMPLETED HOTELS\_INCOMPLETE PERCENT\_INCOMPLETE**

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

**11 8 3 27.2727273**

**SQL>**

**SQL> SPOOL OFF**