**SQL> SET ECHO ON;**

**SQL> --**

**SQL> -- Names: Lin Tony, Santamaria Amanda**

**SQL> -- Date: 2017-01-25**

**SQL> -- Assignment: 2**

**SQL> -- Set E**

**SQL> -- Student #: A00984756, A00984110**

**SQL> --**

**SQL> COMMIT;**

**Commit complete.**

**SQL> --**

**SQL> -- Q1 6.10**

**SQL> --**

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

**2 FROM Hotel**

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

**4 WHERE hotelAddress LIKE '%London'**

**5 AND price < 100.00**

**6 AND type in ('Single', 'Double', 'Family')**

**7 ORDER BY hotelName DESC, price ASC, type DESC;**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**Holiday Inn**

**56 Edinburg Square, London**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Single 35**

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**Holiday Inn**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**56 Edinburg Square, London**

**Single 35**

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Holiday Inn**

**56 Edinburg Square, London**

**Single 35**

**Holiday Inn**

**56 Edinburg Square, London**

**Double 50**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Holiday Inn**

**56 Edinburg Square, London**

**Double 50**

**Holiday Inn**

**56 Edinburg Square, London**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Double 50**

**Holiday Inn**

**56 Edinburg Square, London**

**Double 50**

**Holiday Inn**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**56 Edinburg Square, London**

**Double 50**

**Holiday Inn**

**56 Edinburg Square, London**

**Double 50**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Grosvenor Hotel**

**100 Oxford Road, London**

**Single 40**

**Grosvenor Hotel**

**100 Oxford Road, London**

**Single 40**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Grosvenor Hotel**

**100 Oxford Road, London**

**Single 40**

**Grosvenor Hotel**

**100 Oxford Road, London**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Single 40**

**Grosvenor Hotel**

**100 Oxford Road, London**

**Double 55**

**Grosvenor Hotel**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**100 Oxford Road, London**

**Double 55**

**Grosvenor Hotel**

**100 Oxford Road, London**

**Double 55**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Grosvenor Hotel**

**100 Oxford Road, London**

**Double 55**

**Grosvenor Hotel**

**100 Oxford Road, London**

**Family 85**

**HOTELNAME**

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

**HOTELADDRESS**

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

**TYPE PRICE**

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

**Grosvenor Hotel**

**100 Oxford Road, London**

**Family 90**

**24 rows selected.**

**SQL> --**

**SQL> -- Q2 6.11**

**SQL> --**

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

**2 FROM Hotel**

**3 INNER JOIN Booking ON Hotel.hotelNo = Booking.hotelNo**

**4 WHERE hotelAddress LIKE '%Vancouver%'**

**5 AND hotelAddress NOT LIKE '%West Vancouver%'**

**6 AND hotelAddress NOT LIKE '%North Vancouver%'**

**7 AND dateTo IS NULL;**

**HOTELNAME**

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

**HOTELADDRESS**

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

**ROOMNO DATEFROM**

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

**Meridian Hotel**

**789 Howe Street, Vancouver**

**10 2017-01-21**

**SQL> --**

**SQL> -- Q3 6.13**

**SQL> --**

**SQL> SELECT hotelName, AVG(price) AS "Avg.Price"**

**2 FROM Hotel**

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

**4 GROUP BY hotelName;**

**HOTELNAME Avg.Price**

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

**Grosvenor Inn 105**

**Meridian Hotel 100.833333**

**Holiday Inn 41.4285714**

**Imperial Palace 115**

**Park Royal Hotel 67**

**Delta Inn 75**

**Grosvenor Hotel 69.6153846**

**The Ramada 162.5**

**8 rows selected.**

**SQL> --**

**SQL> -- Q4 6.14**

**SQL> --**

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

**2 FROM Booking b**

**3 INNER JOIN Hotel h ON b.hotelNo = h.hotelNo**

**4 INNER JOIN Room r ON r.hotelNo = b.hotelNo**

**5 AND r.roomNo = b.roomNo**

**6 HAVING ((1000 >= SUM(r.price))**

**7 AND (SUM(r.price) >= 500))**

**8 GROUP BY h.hotelName;**

**HOTELNAME Total Revenue**

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

**The Ramada 500**

**SQL> --**

**SQL> -- Q5 6.16**

**SQL> --**

**SQL> SELECT r.type, r.price, COUNT(\*) AS "Count"**

**2 FROM Room r**

**3 INNER JOIN Hotel h ON r.hotelNo = h.hotelNo**

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

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

**6 GROUP BY r.type, r.price**

**7 ORDER BY r.price;**

**TYPE PRICE Count**

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

**Single 40 4**

**Single 45 5**

**Double 55 4**

**Double 95 5**

**Family 125 5**

**Deluxe 155 5**

**6 rows selected.**

**SQL> --**

**SQL> -- Q6 6.17**

**SQL> --**

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

**2 FROM Guest g**

**3 INNER JOIN Booking b ON g.guestNo = b.guestNo**

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

**5 WHERE h.hotelName LIKE 'Grosvenor Hotel'**

**6 AND b.dateFrom <= '2017-01-29'**

**7 AND b.dateTo >= '2017-01-29'**

**8 GROUP BY g.guestName, b.roomNo;**

**GUESTNAME ROOMNO**

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

**Sundeep Mohan 4**

**Peter Kennedy 5**

**Ivan Pratt 3**

**SQL> --**

**SQL> -- Q7 6.19**

**SQL> --**

**SQL> SELECT h.hotelName, SUM(r.price) AS "Revenue"**

**2 FROM Booking b**

**3 INNER JOIN Room r ON r.hotelNo = b.hotelNo**

**4 AND r.roomNo = b.roomNo**

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

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

**7 AND b.dateFrom <= '2017-01-29'**

**8 AND (b.dateTo >= '2017-01-29' OR b.dateTo IS NULL)**

**9 GROUP BY h.hotelName;**

**HOTELNAME Revenue**

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

**Grosvenor Inn 95**

**Grosvenor Hotel 135**

**SQL> --**

**SQL> -- Q8 6.19**

**SQL> --**

**SQL> SELECT h.hotelName, r.type, SUM(r.price) AS "Income"**

**2 FROM Booking b**

**3 INNER JOIN Hotel h ON b.hotelNo = h.hotelNo**

**4 INNER JOIN Room r ON r.hotelNo = b.hotelNo**

**5 AND r.roomNo = b.roomNo**

**6 WHERE b.dateFrom <= '2017-01-29'**

**7 AND (b.dateTo >= '2017-01-29' OR b.dateTo IS NULL)**

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

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

**HOTELNAME TYPE Income**

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

**Grosvenor Hotel Double 55**

**Grosvenor Hotel Single 80**

**Grosvenor Inn Double 95**

**Holiday Inn Single 35**

**Meridian Hotel Deluxe 150**

**SQL> --**

**SQL> -- Q9**

**SQL> --**

**SQL> SELECT h.hotelName, h.hotelNo, h.hotelAddress**

**2 FROM Hotel h**

**3 LEFT OUTER JOIN Room r ON r.hotelNo = h.hotelNo**

**4 HAVING COUNT(\*) = 1**

**5 GROUP BY h.hotelName, h.hotelNo, h.hotelAddress**

**6 ORDER BY h.hotelNo ASC;**

**HOTELNAME HOTELNO**

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

**HOTELADDRESS**

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

**Royale London 9**

**500 Cambridge Road, London**

**Olympic Resort 10**

**223 Olympic Street, Whistler**

**SQL> --**

**SQL> -- Q10**

**SQL> --**

**SQL> SELECT COUNT(DISTINCT h.hotelName) AS "Total # of hotels"**

**2 ,COUNT(DISTINCT r.hotelNo) AS "# constructed"**

**3 ,(COUNT(DISTINCT h.hotelName) - COUNT(DISTINCT r.hotelNo)) AS "# under construction"**

**4 ,(COUNT(DISTINCT h.hotelNo) - COUNT(DISTINCT r.hotelNo)) \* 100 / COUNT(DISTINCT h.hotelNo) AS "% under construction"**

**5 FROM Hotel h**

**6 LEFT OUTER JOIN Room r ON h.hotelNo = r.hotelNo;**

**Total # of hotels # constructed # under construction % under construction**

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

**10 8 2 20**

**SQL> --**

**SQL> SPOOL OFF;**