Database: Chapter 5 Assignment 2

Complete exercises from class and TAL Distributors in text page 163, exercises 4, 5, 6, 9 and10.

Please type the query in the SQL Statement that you use in either Microsoft Access or Oracle Application Express.  Once query has run correctly and provided the results, take a screen snip of the results, and then copy into the chart below. Save this completed Word document, and submit to appropriate dropbox on myHills.

15 points

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| **Use alias for table name.**  **List the number, last name and first name for each sales rep together with the number and name for each customer the sales rep represents.**  **Note: You can create a second name (alias) for a table name by listing it after the table name on the FROM clause.** |
| **SELECT STATEMENT:**  **SELECT r.rep\_num, last\_name, first\_name, customer\_num, customer\_name**  **FROM CUSTOMER C, REP R**  **WHERE r.rep\_num = c.rep\_num** |
| **Results:** |
| **3 Versions to get same results.**  **Version 1: Find the description of each item included in order number 51623.**  **Note 1: Join or subqueries can be used to retrieve the same results in some situations.**  **Note 2: This result requires two tables, description is in the item table, and the order number 51623 has information in the order\_line table.**  **Note 3: The two tables are related by item\_num.**  **Note 4: Subquery using IN clause can be used to find item\_num for order number 51623, then use those results to find the descriptions in the outer query.** |
| **SELECT STATEMENT:**  SELECT item\_num  FROM ORDER\_LINE  WHERE ORDER\_NUM = '51623'  SELECT description  FROM ITEM  WHERE ITEM\_NUM IN ( SELECT ITEM\_NUM  FROM ORDER LINE  WHERE ORDER\_NUM = '516123')  SELECT description  FROM ITEM I, ORDER\_LINE ol  where i.Item\_num = ol.item\_num  and order\_num = '51623'  SELECT description  FROM ITEM I  where EXIST (SELECT \* FROM ORDER\_LINE ol where i.item\_num and order\_num = '51623') |
| **Results:** |
| **3 Versions to get same results.**  **Version 2: Find the description of each item included in order number 51623.**  **Note 1: Join or subqueries can be used to retrieve the same results in some situations.**  **Note 2: This result requires two tables, description is in the item table, and the order number 51623 has information in the order\_line table.**  **Note 3: The two tables are related by item\_num.**  **Note 4: Join can be used relating the two tables together.**  **.** |
| **SELECT STATEMENT:** |
| **Results:** |
| **3 Versions to get same results.**  **Version 3: Find the description of each item included in order number 51623.**  **Note 1: Join or subqueries can be used to retrieve the same results in some situations.**  **Note 2: This result requires two tables, description is in the item table, and the order number 51623 has information in the order\_line table.**  **Note 3: The two tables are related by item\_num.**  **Note 4: Subquery using EXISTS clause is like a combination between subquery and join. Use similar main query with the subquery using where clause similar to the join where clause.** |
| **SELECT STATEMENT:** |
| **Results:** |
| **Another Subquery using EXIST clause**  Find the order number and order date for each order that contains item number FD11. |
| **SELECT STATEMENT:**  **SELECT ORDER\_NUM, ORDER\_DATE**  **FROM ORDERS O**  **WHERE EXISTS (SELECT \* FROM ORDER\_LINE OL**  **where o.order\_num = OL.order\_num and item\_num = 'FD11' )** |
| **Results:** |
| **Subquery using NOT EXIST clause**  Find the order number and order date for each order that does not contains item number FD11. |
| **SELECT STATEMENT:**  SELECT ORDER\_NUM, ORDER\_DATE  FROM ORDERS O  WHERE NOT EXISTS (SELECT \* FROM ORDER\_LINE OL  where o.order\_num = OL.order\_num and item\_num = 'FD11' ) |
| **Results:** |
| **5-4** Use the IN operator to find the number and name of each customer that placed an order on October 15,2015. |
| **5-4 SELECT STATEMENT:** |
| **5-4** **Results:** |
| **5-5** Use the EXISTS operator to find the number and name of each customer that placed an order on October 15,2015. |
| **5-5 SELECT STATEMENT:** |
| **5-5 Results:** |
| **5-6** Find the number and name of each customer that did not place an order on October 15, 2015 |
| **5-6** **SELECT STATEMENT:** |
| **5-6 Results:** |
| **5-9.** Use a subquery to find the rep number, last name, and first name of each sales rep who represents at least one customer with a credit limit of $10,000. List each sales rep only once in the results. Also use an alias. |
| SELECT STATEMENT: |
| Results: |
| **5-10.** Repeat Exercise 9, but this time do not use a subquery. |
| SELECT STATEMENT: |
| Results: |