Homework: Advanced SQL

| Customer | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CustNo | CustFirstName | CustLastName | CustStreet | CustCity | CustState | CustZip | CustBal | |
| C0954327 | Sheri | Gordon | 336 Hill St. | Littleton | CO | 80129-5543 | $230.00 | |
| C1010398 | Jim | Glussman | 1432 E. Ravenna | Denver | CO | 80111-0033 | $200.00 | |

| OrderTbl | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| OrdNo | OrdDate | CustNo | EmpNo | OrdName | OrdStreet | OrdCity | OrdState | OrdZip |
| O1116324 | 01/23/2007 | C0954327 | E8544399 | Sheri Gordon | 336 Hill St. | Littleton | CO | 80129-5543 |
| O1231231 | 01/23/2007 | C9432910 | E9954302 | Larry Styles | 9825 S. Crest Lane | Bellevue | WA | 98104-2211 |
| O1241518 | 02/10/2007 | C9549302 | | Todd Hayes | 1400 NW 88th | Lynnwood | WA | 98036-2244 |

| OrdLine | | |
|---|---|---|
| OrdNo | ProdNo | Qty |
| O1116324 | P1445671 | 1 |
| O1231231 | P0036566 | 1 |
| O1231231 | P1445671 | 1 |

| Product | | | | | | |
|---|---|---|---|---|---|---|
| ProdNo | ProdName | ProdMfg | ProdQOH | ProdPrice | ProdNextShipDate | |
| P0036566 | 17 inch Color Monitor | ColorMeg, Inc. | 12 | 169 | 02/20/2007 | |
| P0036577 | 19 inch Color Monitor | ColorMeg, Inc. | 10 | 319 | 02/20/2007 | |
| P1114590 | R3000 Color Laser Printer | Connex | 5 | 699 | 01/22/2007 | |

1. Using a Type I nested query, list the customer number, the name (first and last), and the city of each customer who has a balance greater than $150 and placed an order in February 2004.

2. Using a Type II nested query, list the customer number and the customer name of Colorado customers who have not placed orders in February 2004.

3. Repeat problem 9 using a Type I nested query instead of a nested query.

4. List the order number and the order date of orders containing every 'Ink Jet' product.

**Hint:** This problem requires a division operation because the problem statement involves orders containing <u>every</u> "Ink Jet" product, not just any "Ink Jet" product. The COUNT method is used for the division operation.
Use ProdName LIKE '*Ink Jet*' condition.

5. List the order number and the order date of orders containing both two products: Laser Printer, Color Monitor. OrdNo+ProdNo is a key of OrdLine.

Hint: Make use of a table expression.

March 15, 2018