For this assignment, we will use the AdventureWorksLT2019 database. Start a new query and set the active database to AdventureWorksLT2019:

use AdventureWorksLT2019;

Q1 Q1 - Find all products that are no longer sold. You will need to look at the SalesLT.Product table. The information of interest can be found in the SellEndDate column. Sort the output by SellStartDate from earliest to most recent date. The output should include product ID, product name, product number, list price, SellStartDate, and SellEndDate. Order the output by List Price with the most expensive products listed first and by ProductID from smallest to largest.

Q2 Modify Q1 to include only the top twelve records.

Q3 Modify Q1 to include only the top twelve percent of records. Are the results different than in Q2? Why or why not?

Q4 Modify Q2 to include only the top four records, including all ties. Sort the output by list price only.

Q5 Modify Q1 to include only rows 6 through 16 in the output.

/\*Q1 - Find all products that are no longer sold. You will need to look at the SalesLT.Product table.

The information of interest can be found in the SellEndDate column.

Sort the output by SellStartDate from earliest to most recent date.

The output should include product ID, product name, product number, list price, SellStartDate, and SellEndDate.

Order the output by List Price with the most expensive products listed first and by ProductID from smallest to largest. \*/

SELECT ProductID, Name, ProductNumber, ListPrice, SellStartDate, SellEndDate

FROM SalesLT.Product

WHERE SellEndDate IS NOT NULL

ORDER BY ListPrice DESC, ProductID ASC, SellStartDate ASC;

/\*Modify Q1 to include only the top twelve records. \*/

SELECT TOP 12 ProductID, Name, ProductNumber, ListPrice, SellStartDate, SellEndDate

FROM SalesLT.Product

WHERE SellEndDate IS NOT NULL

ORDER BY ListPrice DESC, ProductID ASC, SellStartDate ASC;

/\*Q3\*/

WITH CTE AS (

SELECT ProductID, Name, ProductNumber, ListPrice, SellStartDate, SellEndDate,

ROW\_NUMBER() OVER(ORDER BY ListPrice DESC, ProductID ASC, SellStartDate ASC) AS RN

FROM SalesLT.Product

WHERE SellEndDate IS NOT NULL

)

SELECT \*

FROM CTE

WHERE RN <= CEILING((SELECT COUNT(\*)

FROM CTE) \* 0.12);

/\*Q4\*/

WITH CTE AS (

SELECT ProductID, Name, ProductNumber, ListPrice, SellStartDate, SellEndDate,

ROW\_NUMBER() OVER(ORDER BY ListPrice DESC) AS RN

FROM SalesLT.Product

WHERE SellEndDate IS NOT NULL

)

SELECT \*

FROM CTE

WHERE RN <= 4;

/\*Q5\*/

WITH CTE AS (

SELECT ProductID, Name, ProductNumber, ListPrice, SellStartDate, SellEndDate,

ROW\_NUMBER() OVER(ORDER BY ListPrice DESC, ProductID ASC, SellStartDate ASC) AS RN

FROM SalesLT.Product

WHERE SellEndDate IS NOT NULL

)

SELECT \*

FROM CTE

WHERE RN BETWEEN 6 AND 16;