Lab 2: Querying Tables with SELECT

Retrieving Transportation Report Data

The logistics manager at AdventureWorks has asked you to generate some reports containing details of the company's customers to help reduce transportation costs. For starters, you need to produce a list of all of your customers' locations.

Instructions

Finish the Transact-SQL query that returns the `Address` table and retrieves all values for `City` and `StateProvince`, without duplicates.

SELECT DISTINCT City,StateProvince

FROM SalesLT.Address;

Retrieving Transportation Report Data (2)

You are being told that transportation costs are increasing and you need to identify the heaviest products.

Instructions

Finish the query to retrieve the names of the top ten percent of products by weight.

SELECT TOP 10 PERCENT NAME, Weight

FROM SalesLT.Product

ORDER BY Weight DESC;

Retrieving Transportation Report Data (3)

The ten heaviest products are transported by a specialist carrier.

Instructions

Tweak the query to list the heaviest 100 products not including the ten most heavy ones.

SELECT Name

FROM SalesLT.Product

ORDER BY Weight DESC

OFFSET 10 ROWS FETCH NEXT 0100 ROWS ONLY;

Retrieving Product Data

The product manager at AdventureWorks would like you to create some reports listing details of the products that you sell.

Instructions

Write a query to find the names, colors, and sizes of the products with a product model ID of 1.

SELECT Name, Color, Size

FROM SalesLT.Product

WHERE ProductModelID = 1;

Retrieving Product Data (2)

The product manager would like more information on products of certain colors and sizes.

Instructions

Retrieve the product number and name of the products that have a `Color` of 'Black', 'Red', or 'White' and a `Size` of 'S' or 'M'.

SELECT Name, ProductNumber

FROM SalesLT.Product

WHERE Color IN ('Black', 'Red', 'White') AND Size IN ('S', 'M');

Retrieving Product Data (3)

The product manager would also like information on products with a particular product number prefix.

Instructions

Retrieve the product number, name, and list price of products that have a product number beginning with `'BK-'`.

SELECT Name, ProductNumber, ListPrice

FROM SalesLT.Product

WHERE ProductNumber LIKE 'BK-%';

Retrieving Product Data (4)

Finally, the product manager is interested in a slight variation of the last request regarding product numbers with a particular prefix.

Instructions

Modify your previous query to retrieve the product number, name, and list price of products with product number beginning with `'BK-'` followed by any character other than `'R'`, and ending with a `'-'` followed by any two numerals.
Remember:

- to match any string of zero or more characters, use `%`
- to match characters that are not `R`, use `[^R]`
- to match a numeral, use `[0-9]`

SELECT Name, ProductNumber, ListPrice

FROM SalesLT.Product

WHERE ProductNumber LIKE 'BK-[^R]%-[0-9][0-9]';