Querying with Transact-SQL

Overview

In this lab, you will use SELECT queries to retrieve, sort, and filter data from the **AdventureWorksLT** database.

What You'll Need

- An Azure SQL Database instance with the **AdventureWorksLT** sample database.
- Create the Query from File menu and save the Query using naming convention as below
- BDA-<WAVEno>-<learnernameasperIC>-lab4.sql
- Eg: BDA-01-KISHAN-lab4.sql

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Challenge 1: Retrieve Data for Transportation Reports

The logistics manager at Adventure Works has asked you to generate some reports containing details of the company's customers to help to reduce transportation costs.

1. Retrieve a list of cities

Initially, you need to produce a list of all of you customers' locations. Write a Transact-SQL query that queries the Address table and retrieves all values for **City** and **StateProvince**, removing duplicates.

2. Retrieve the heaviest products

Transportation costs are increasing and you need to identify the heaviest products. Retrieve the names of the top ten percent of products by weight.

3. Retrieve the heaviest 100 products not including the heaviest ten

The heaviest ten products are transported by a specialist carrier; therefore, you need to modify the previous query to list the heaviest 100 products not including the heaviest ten.

Challenge 2: Retrieve Product Data

The Production Manager at Adventure Works would like you to create some reports listing details of the products that you sell.

Tip: Review the documentation for the WHERE and LIKE keywords in the Transact-SQL Reference.

1. Retrieve product details for product model 1

Initially, you need to find the names, colors, and sizes of the products with a product model ID **1**.

2. Filter products by color and size

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'.

3. Filter products by product number

Retrieve the product number, name, and list price of products whose product number begins 'BK-'.