





Sorting Results

Use ORDER BY to sort results by one or more columns

- Aliases created in SELECT clause are visible to ORDER BY
- You can order by columns in the source that are not included in the SELECT clause
- You can specify ASC or DESC (ASC is the default)

SELECT ProductCategoryID AS Category, ProductName FROM Production.Product ORDER BY Category ASC, Price DESC;

Limiting Sorted Results

Use TOP to limit the number or percentage of rows returned by a query

- Works with ORDER BY clause to limit rows by sort order
- Added to SELECT clause:

```
SELECT TOP N [Percent] [WITH TIES]
```

SELECT TOP 10 Name, ListPrice FROM Production.Product ORDER BY ListPrice DESC;

Paging Through Results

OFFSET-FETCH is an extension to the ORDER BY clause:

- Allows returning a requested range of rows
- Provides a mechanism for paging through results
- Specify number of rows to skip, number of rows to retrieve

SELECT ProductID, ProductName, ListPrice
FROM Production.Product
ORDER BY ListPrice DESC
OFFSET 0 ROWS -- Skip zero rows
FETCH NEXT 10 ROWS ONLY; -- Get the next 10

Lesson 2: Filtering Query Results

Removing Duplicates

SELECT ALL

Default behavior includes duplicates

SELECT City, CountryRegion FROM Production.Supplier ORDER BY CountryRegion, City;

SELECT DISTINCT

Removes duplicates

SELECT DISTINCT City, CountryRegion FROM Production.Supplier ORDER BY CountryRegion, City;

City	CountryRegion
Aurora	Canada
Barrie	Canada
Brampton	Canada
Brossard	Canada
Brossard	Canada
Burnaby	Canada
Burnaby	Canada
Burnaby	Canada
Calgary	Canada
Calgary	Canada

City	CountryRegion
Aurora	Canada
Barrie	Canada
Brampton	Canada
Brossard	Canada
Burnaby	Canada
Calgary	Canada

Filtering and Using Predicates

SELECT ProductCategoryID AS Category, ProductName FROM Production.Product

WHERE ProductCategoryID = 2
 AND ListPrice < 10.00</pre>

ORDER BY Category, Price DESC;

Predicates and Operators	Description
=<>	Compares values for equality / non-equality.
IN	Determines whether a specified value matches any value in a subquery or a list.
BETWEEN	Specifies an inclusive range to test.
LIKE	Determines whether a specific character string matches a specified pattern, which can include wildcards.
AND	Combines two Boolean expressions and returns TRUE only when both are TRUE.
OR	Combines two Boolean expressions and returns TRUE if either is TRUE.
NOT	Reverses the result of a search condition.

Lab: Sort and Filter Query Results Sort results using the ORDER BY clause Restrict results using TOP Retrieve pages of results with OFFSET and FETCH Use the ALL and DISTINCT options Filter results with the WHERE clause

Module Review

- You write a Transact-SQL query to list the available sizes for products. Each individual size should be listed only once. Which query should you use?
 - ☐ SELECT Size FROM Production.Product;

 - ☐ SELECT ALL Size FROM Production.Product;
- You must return the InvoiceNo and TotalDue columns from the Sales.Invoice table in decreasing order of TotalDue value. Which query should you use?
 - ☐ SELECT * FROM Sales.Invoice ORDER BY TotalDue, InvoiceNo;

 - ☐ SELECT TotalDue AS DESC, InvoiceNo FROM Sales.Invoice;
- Complete this query to return only products that have a Category value of 2 or 4:

SELECT Name, Price FROM Production.Product

- □ ORDER BY Category;
- ☐ WHERE Category BETWEEN 2 AND 4;

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Use the slide animation to reveal the correct answers.

