04 | Using Set Operators



Graeme Malcolm | Senior Content Developer, Microsoft Geoff Allix | Principal Technologist, Content Master

Module Overview

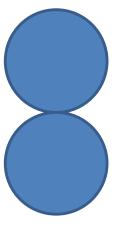
- What are UNION Queries?
- What are INTERSECT Queries?
- What are EXCEPT Queries?

What are UNION Queries?

- UNION returns a result set of distinct rows combined from all statements
- UNION removes duplicates during query processing (affects performance)
- UNION ALL retains duplicates during query processing

-- only distinct rows from both queries are returned SELECT countryregion, city FROM HR.Employees UNION

SELECT countryregion, city FROM Sales. Customers;



UNION Guidelines

- Column aliases
 - Must be expressed in first query
- Number of columns
 - Must be the same
- Data types
 - Must be compatible for implicit conversion (or converted explicitly)

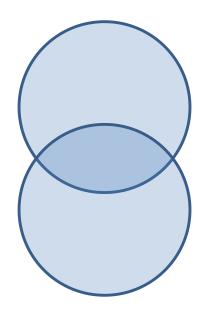
DEMO

Creating UNION Queries

What are INTERSECT Queries?

INTERSECT returns only distinct rows that appear in both result sets

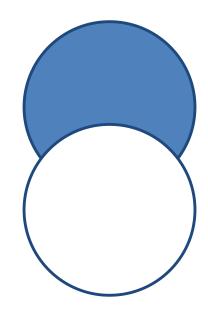
-- only rows that exist in both queries will be returned SELECT countryregion, city FROM HR.Employees INTERSECT SELECT countryregion, city FROM Sales.Customers;



What are EXCEPT Queries?

- EXCEPT returns only distinct rows that appear in the first set but not the second
 - Order in which sets are specified matters

-- only rows from Employees will be returned SELECT countryregion, city FROM HR.Employees EXCEPT SELECT countryregion, city FROM Sales.Customers;



DEMO

Demo: Creating INTERSECT and EXCEPT Queries

Using Set Operators

- What are UNION Queries?
- What are INTERSECT Queries?
- What are EXCEPT Queries?

Lab: Using Set Operators



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