

Azure SQL day 2

Friday, September 1, 2023 9:03 AM

Alter table query:

```
alter table bookorder add doi date not null default (getdate())
```

Joins:

1. Inner: brings only the matching records from both tables
2. Left: returns all rows from left table and matching values from right table
3. Right: returns all rows from right table and matching values from left table
4. Self: each row is joined to itself and all other rows
5. Outer: all rows from both tables
6. Cross: returns the cartesian product of both tables.

When to use **Views vs Functions vs Stored Procedure**:

- When same procedure needs to be repeated: then use Function, it is piece of code that helps reduce code overwrite and helps in reusability
- Complex code that needs automation: then use Store Procedure
- Hundreds of tables but only want to give some part to someone: Views

Subquery:

For example:

Select * from table
Join order e.id = en.id
Where OID in (select OID from Order)

Join example:

```
Select TOP (1000) *  
FROM [SalesLT].[Customer]  
INNER JOIN [SalesLT].[CustomerAddress]  
ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;
```

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Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 Select TOP (1000) *  
2 FROM [SalesLT].[Customer]  
3 INNER JOIN [SalesLT].[CustomerAddress]  
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;  
5
```

Results Messages

Search to filter items...

CustomerID	NameStyle	Title	FirstName	Middle
29485	False	Ms.	Catherine	R.
29486	False	Ms.	Kim	
29489	False	Ms.	Frances	B.

Query succeeded | 1s

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Query 1 × Query 2 ×

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```

1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 LEFT JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;

```

Results Messages

Search to filter items...

CustomerID	NameStyle	Title	FirstName	Middle
1	False	Mr.	Orlando	N.
2	False	Mr.	Keith	
3	False	Ms.	Donna	F.

Query succeeded | 17s

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Query 1 × Query 2 × Query 3 ×

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```

1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 RIGHT JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;

```

Results Messages

Search to filter items...

CustomerID	NameStyle	Title	FirstName	Middle
29485	False	Ms.	Catherine	R.
29486	False	Ms.	Kim	
29489	False	Ms.	Frances	B.

Query succeeded | 17s

dbz2 (idashellserv212/dbz2) | Query editor (preview) ☆ ...

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Query 1 × Query 2 × Query 3 ×

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```

1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 CROSS JOIN [SalesLT].[CustomerAddress]
4

```

Results Messages

Search to filter items...

CustomerID	NameStyle	Title	FirstName	Middle
1	False	Mr.	Orlando	N.
1	False	Mr.	Orlando	N.
1	False	Mr.	Orlando	N.

Query succeeded | 2s

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Query 1 × Query 2 × Query 3 × Query 4 ×

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```

1 Select TOP (1000) *
2 FROM [SalesLT].[Customer]
3 RIGHT JOIN [SalesLT].[CustomerAddress]
4 ON [SalesLT].[Customer].CustomerID = [SalesLT].[CustomerAddress].CustomerID;

```

Results Messages

Search to filter items...

CustomerID	NameStyle	Title	FirstName	Middle
29485	False	Ms.	Catherine	R.
29486	False	Ms.	Kim	
29489	False	Ms.	Frances	B.

Query succeeded | 1s

dbz2 (idashellserver212/dbz2) | Query editor (preview) ☆ ...

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Query 1 ×

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```

1 SELECT MAX([SalesLT].[Product].ListPrice)
2 FROM [SalesLT].[Product]
3 WHERE [SalesLT].[Product].ListPrice < (SELECT MAX([SalesLT].[Product].ListPrice) FROM [SalesLT].[Product])

```

Results Messages

Search to filter items...

3399.9900

```

SELECT MAX([SalesLT].[Product].ListPrice)
FROM [SalesLT].[Product]
WHERE [SalesLT].[Product].ListPrice < (SELECT MAX([SalesLT].[Product].ListPrice) FROM [SalesLT].[Product])

```

What are Indexes?

- Clustered non clustered

```

select * from [[SalesLT].[Product] p
inner join
[SalesLT].[ProductCategory] pc on pc.[ProductCategoryID] = p.[ProductCategoryID]
inner join
[SalesLT].[SalesOrderDetail] od on od.ProductID = p.ProductID

```