

# MS SQL Server 2016 RLS

## Row Assignments in a lookup table

```
CREATE TABLE [dbo].[predicate_tab](  
    [ACCT_NBR] [varchar](30) NULL,  
    [Netid] [varchar](30) NULL  
) ON [PRIMARY]
```

	ACCT_NBR	Netid
1	LAX	gc92
2	ZAP	gsc29
3	ZAP	bb57
4	AURA	gc92
5	AURA	bb57

```
CREATE TABLE [dbo].[Orders](  
    [Supplier_Code] [int] NULL,  
    [Supplier_Name] [varchar](10) NULL,  
    [Orderdate] [datetime] NULL,  
    [OrderQuantity] [int] NULL,  
    [ACCT_NBR] [varchar](10) NULL  
) ON [PRIMARY]
```

	Supplier_Code	Supplier_Name	Orderdate	OrderQuantity	ACCT_NBR
1	101	AXP Inc	2015-08-11 00:34:51.090	1789	LAX
2	102	VFG Inc	2014-01-08 19:44:51.090	767	AURA
3	103	ZAD Inc	2015-08-19 19:44:51.090	500	ZAP
4	102	VFG Inc	2014-08-19 19:44:51.090	1099	ZAP
5	101	AXP Inc	2014-08-04 19:44:51.090	654	LAX
6	103	ZAD Inc	2015-08-10 19:44:51.090	498	LAX
7	102	VFG Inc	2015-04-17 19:44:51.090	999	LAX
8	101	AXP Inc	2015-08-21 19:44:51.090	543	LAX
9	103	ZAD Inc	2015-08-06 19:44:51.090	876	LAX
10	102	VFG Inc	2015-08-26 19:44:51.090	665	LAX

Create Function fn\_securitypredicate (@ACCT\_NBR sysname)

returns table with Schemabinding

as

return select 1 as [fn\_securityPredicate\_result]

from dbo.predicate\_tab

where (Netid = user\_name()) and @ACCT\_NBR = ACCT\_NBR)

union all

select 1 as [fn\_securityPredicate\_result]

where IS\_SRVROLEMEMBER(N'sysadmin') = 1

Create security Policy dbo.fn\_security

add Filter Predicate dbo.fn\_securitypredicate(ACCT\_NBR) on dbo.orders

WITH (STATE = ON, SCHEMABINDING = ON)

## Testing Result

EXECUTE AS USER = 'bb57';

select \* from dbo.predicate\_tab order by netid asc

select \* from dbo.orders

REVERT;

Results		Messages	
	ACCT_NBR	Netid	
1	ZAP	bb57	
2	AURA	bb57	
3	AURA	gc92	
4	LAX	gc92	
5	ZAP	gsc29	

  

	Supplier_Code	Supplier_Name	Orderdate	OrderQuantity	ACCT_NBR
1	102	VFG Inc	2014-01-08 19:44:51.090	767	AURA
2	103	ZAD Inc	2015-08-19 19:44:51.090	500	ZAP
3	102	VFG Inc	2014-08-19 19:44:51.090	1099	ZAP