Next Level Access Control Power Bl

POWER

NOT LAZY -EFFICIENT

SOLID DYNAMIC ONE TIME SET-UP



DATA PLATFORM ENGINEER RETAIL/ JOURNALIST MOTHER RUBBERDUCK



Sponsors















Raffle prizes from the sponsors















DEVELOPERS OR END-USERS

DEVELOPERS

END-USERS

METHODS OF SHARING

WORKSPACE

EMBED IN SECURE PORTAL

PUBLISH TO WEB



APP

PRO, PPU OR PREMIUM CAPACITY

SHARE THE APP VIA LINK IN EMAIL OR BY INSTALLING IT FOR THEM

PRINCIPLE OF LEAST PRIVLEGE



ACCESS TO WORKSPACE



SHARE THE DATASET BUILD CONTENT

PRINCIPLE OF LEAST PRIVLEGE

WHY ACCESS CONTROL?

SECURITY LEVELS

ROW COLUMN OBJECT PAGE

ROW LEVEL SECURITY

DYNAMIC OR STATIC

ROW LEVEL SECURITY

DYNAMIC

Manage security roles

Create new security roles and use filters to define row-level data restrictions.

Roles	Select tables	Filter data	Switch to default editor
+ New	Accounts	 [Manager] == Userprincipalname()	
🗊 Manager 🛛 …	I Campaigns		
-	E Contacts		
	Industries		

USERPRINCIPALNAME () USERNAME ()

 \times

ROW LEVEL SECURITY DYNAMIC

ROW LEVEL SECURITY

STATIC

Manage roles			
Roles	Tables	Table filter DAX expression	✓ ×
Eastern US	Date	"[Region] = "East"	
	Geo	Y	
Create Delete	Manufacturer		
	Product		
	SalesFact		
	Sentiment		
1	•	- 11 A.S.	1

ROW LEVEL SECURITY

STATIC

DYNAMIC OR STATIC

- 1. CREATE THE ROLE IN POWER BI DESKTOP
- 2. CREATE A SECURITY GROUP FOR THAT ROLE
- 3. PLACE USERS IN GROUP
- 4. ADD GROUP TO ROLE IN POWER BI SERVICE

ROW LEVEL SECURITY



DYNAMIC OR STATIC

DYNAMIC OR STATIC

DISTRIBUTION GROUP MAIL-ENABLED GROUP SECURITY GROUP SINGLE USER'S EMAIL NOT M365 GROUPS

MULTIPLE AUDIENCE

Audience	Audience	
Sales	Manager	

Audience
Manager

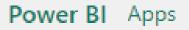
Sales	Manager
Sales + North	Manager + North
Sales + South	Manager + South
Sales + East	Manager + East
Sales + West	Manager + West

Sales	Manager	Finance
Sales + North	Manager + North	Finance + North
Sales + South	Manager + South	Finance + South
Sales + East	Manager + East	Finance + East
Sales + West	Manager + West	Finance + West

Sales	Manager	Finance
Sales + North	Manager + North	Finance + North
Sales + South	Manager + South	Finance + South
Sales + East	Manager + East	Finance + East
Sales + West	Manager + West	Finance + West
Sales + North + Sweden	Manager + North + Sweden	Finance+ North + Sweden
Sales + North + Norway	Manager + North + Norway	Finance + North + Norway
Sales + North + Finland	Manager + North + Finland	Finance + North + Finland
Sales + South + Denmark	Manager + South + Denmark	Finance + South + Denmark
Sales + South + Holland	Manager + South + Holland	Finance + South + Holland
Sales + South + Germany	Manager + South + Germany	Finance + South + Germany

RLS + MULTIPLE AUDIENCE

AUDIENCE : SALES MODEL : NORTH MODEL : SOUTH



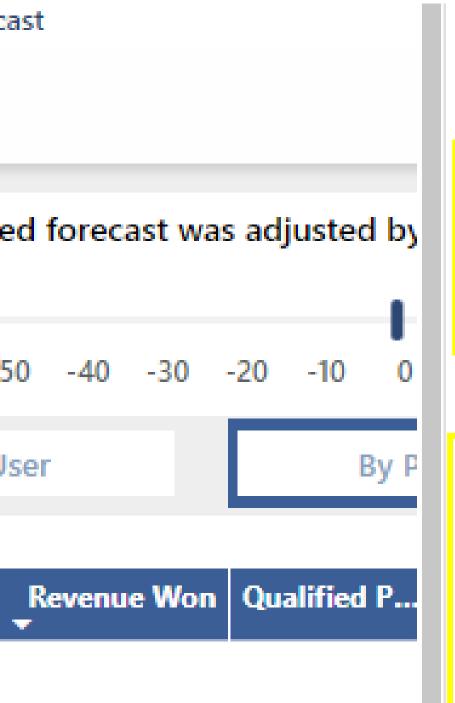
1 Setup 2 Content 3 Audience

Audience

Manage your audiences and their permissions. Select what content each audience can see by toggling the eye icon.

RLS Test	Manager	Sales	+ New Audience	
P RLS Test		Contoso	REGIONAL SALES	
			Sales Overview	ew
Regional Sales Sample		Revenue won	Qu	ualified Pipeline
		Revenue Open by Sales Stage		Revenue Won and R

G Home	① Setup ②	Content	③ Aud	lience		
_	Audience					
(+) Create	Manage your audi	ences and f	their permis	ssions. Select what content each	h audience can see by	toggling the eye
Browse	RLS Test		Manager	Sales	+ New Audience	2
~						
OneLake				Contoso	REGIONAL SA	LES
data hub	RLS Test			Contoso	Sales Overview	1
B						
Apps	Regional Sales Sam	ple		Revenue won		Qualified Pipelin
Q Metrics	Financials	×	\sim			
Monitoring hub	HR	Ż	~	Revenue Open by Sales Stage		



Grant access to

Entire organization <u>Learn more</u>

Specific users or groups

Enter a name or email address

Advanced

Allow people to share the datasets in this app audience.

Allow people to build content with the datasets in this app audience.



 \oplus

Create

Row-Level Security

North (0)

South (0)

Browse

P



OneLake data hub







And the second second

Members (0)

People or groups who belong to this role

Enter email addresses

Add

G Home

 \oplus

Create

P

Browse

Ø

OneLake data hub

B

Apps

Row-Level Security

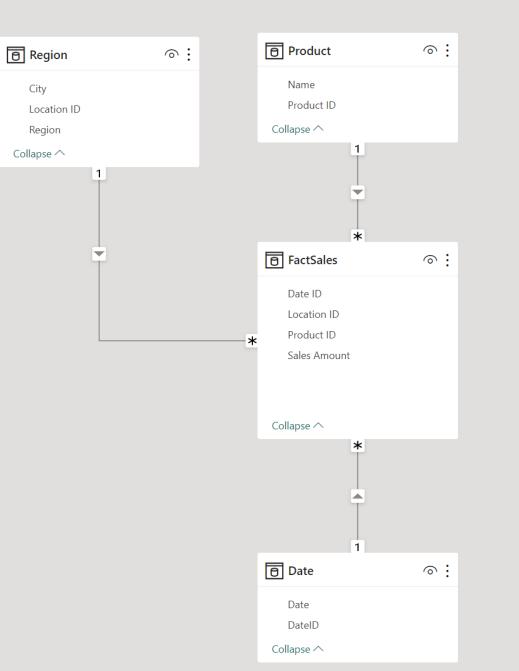
	Sales	Manager
North (0)		
South (0)	Sales + North	Manager + North
	Sales + South	Manager + South
	Sales + East	Manager + East
	Sales + West	Manager + West

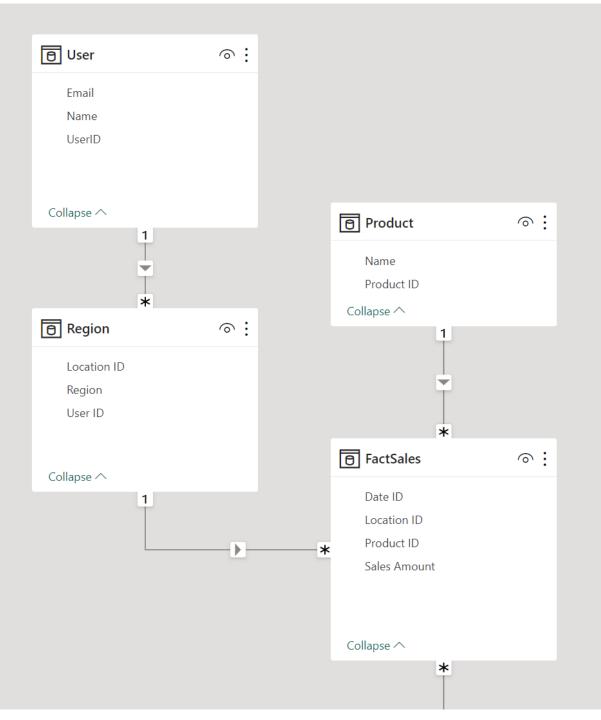


And the second second

	Role	Region
	Sales	North
	Manager	South
	Finance	East
1		West

Role	Region	Country
Sales	North	Sweden
Manager	South	Finland
Finance	East	Norway
	West	Denmark
		Holland
		Germany





OBJECT & COLUMN LEVEL SECURITY

① Setup ② Con	tent ③ Audience			
Audience Manage your audiences	s and their permissions. Se	lect what content each audience can se	Power BI RLS Test > Row-Level Securit	ty
RLS Test	Manager	Sales + New Audi	Row-Level Security	
RLS Test	C	Contoso REGIONAL Sales Overv	North (0)	Members (0)
SECURITY COMPANY	GROUP LE ROLE	EVEL 1:		Enter email addresses Add
MANAGER			SECURITY GROUP I	LEVEL 2:
MID LEVEI SALES	L MANAGE	R	SPECIFIC FILTRATIO	
HR			NORTH	
CEO			SOUTH	
			STOCKHOLM	
			COPENHAGEN OFFI	



Windows PowerShell

×

– o x

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\LindaTorrång> install-module AZ.Resources

PS C:\Windows\system32> Get-AzADUser

DisplayName	Id	Mail	UserPrincipalName
Admin	cca84f66-7789-4dd5-bfe2-b7001d6e1a25		Admin@datamasterminds.onmicrosoft.com
Alexander Arvidsson	3b92e4ce-6626-46b0-a91f-2a9e817f65a8	alexanderarvidsson@datamasterminds.io	alexanderarvidsson@datamasterminds.io
assessment_amadeus-fire	5f6eeee1-eec8-4669-9a81-259c99613adf		assessment_amadeus-fire@datamasterminds.onmicrosoft.com
assessment_augprien	3ddde729-de85-40d4-900d-7a8168dd60d5		assessment_augprien@datamasterminds.onmicrosoft.com
assessment_axtron	8431a739-f48b-42d2-b415-c75ff7e84539		assessment_axtron@datamasterminds.onmicrosoft.com
assessment_bb-verpackungen	1ae21ba5-b9fa-4ef2-b707-7cc49e6d7bff		assessment_bb-verpackungen@datamasterminds.onmicrosoft.com
assessment_borrmann	27ef9888-9ec7-498c-a19f-8f935c62bae0		assessment_borrmann@datamasterminds.onmicrosoft.com
assessment_bueltel	ef8b8db8-4263-4352-9eda-cb45582a8725		assessment_bueltel@datamasterminds.onmicrosoft.com
assessment_coeoinkasso	1918ad96-d084-4b68-be0a-4ad89fe92a20		assessment_coeoinkasso@datamasterminds.onmicrosoft.com
assessment_comcave	c2dd3df3-c1ac-4e7a-9c5b-35223ce4c80a		assessment_comcave@datamasterminds.onmicrosoft.com
assessment_daimler-trucks	6a2c51d5-5a5d-4707-a209-34b7b7aab0ae		assessment_daimler-trucks@datamasterminds.onmicrosoft.com
eelcotest	32dfec32-d20a-400c-8dc6-13786fa71720		assessment_eelcotest@datamasterminds.onmicrosoft.com
assessment_elpress	b3d28112-2f7e-407b-9fcf-e1170a03167c		assessment_elpress@datamasterminds.onmicrosoft.com
assessment_emp	59fdec9a-3238-4932-a3bf-60cba2b0df85		assessment_emp@datamasterminds.onmicrosoft.com
assessment_feadship	8d6c888e-90c8-4d9f-a312-f3063e74de72		assessment_feadship@datamasterminds.onmicrosoft.com
assessment_flexit	1fa67f1f-f938-4225-82e1-5e1a5011f5bb		assessment_flexit@datamasterminds.onmicrosoft.com
assessment_haensch	8f06e3e2-ffb6-4ab9-a58d-063679bdd510		assessment_haensch@datamasterminds.onmicrosoft.com
assessment_heutink	3dfec20d-9a38-4eba-aeb0-b343b71dbcb0		assessment_heutink@datamasterminds.onmicrosoft.com
assessment_hofmann	0c8d8453-080d-40be-9479-d08fecb2c0b2		assessment_hofmann@datamasterminds.onmicrosoft.com
assessment_hofschroer	09f22c95-6c6f-47e5-8270-a01b5c753013		assessment_hofschroer@datamasterminds.onmicrosoft.com
assessment_hottgenroth	914ae4ca-8272-4d2f-8d49-e16ca16e54ce		assessment_hottgenroth@datamasterminds.onmicrosoft.com

PS C:\Windows\system32> Get-AzADUser | ConvertTo-CSV | Out-File C:\ADUsers.csv
PS C:\Windows\system32>

New-ADUser

[-Name] <String>]
[-MobilePhone <String>]
[-Office <String>]
[-City <String>]
[-Company <String>]
[-Country <String>]

New-ADUser

[-Name] <String>]
[-MobilePhone <String>]
[-Office <String>]
[-City <String>]
[-Company <String>]
[-Country <String>]
[-OtherAttributes <Hashtable>]
@{'REGION'="SWEDEN","NORWAY"}

CONTROL OUTSIDE OF MODEL "DYNAMIC" RLS AUTOMATION

COMBINE AND AUTOMATE



Linda Torrång (she/her)

Thank you!

/in/linda-torrång



LindaTorrang@datamasterminds.io

