

Slicer based Password Control for PowerBI Reports

*Transform your
Raw Data into*



Power BI

*Meaningful
Reports
in minutes*

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Acknowledgment

I read an article by **Andrzej Leszkiewicz** in the PowerBI Community portal that inspired me to create this sample work.

You can find excellent articles from Andrzej here:
<https://powerofbi.org/>

I acknowledge and submit my sincere thanks to Andrzej for sharing his knowledge with the community.

Sample Data

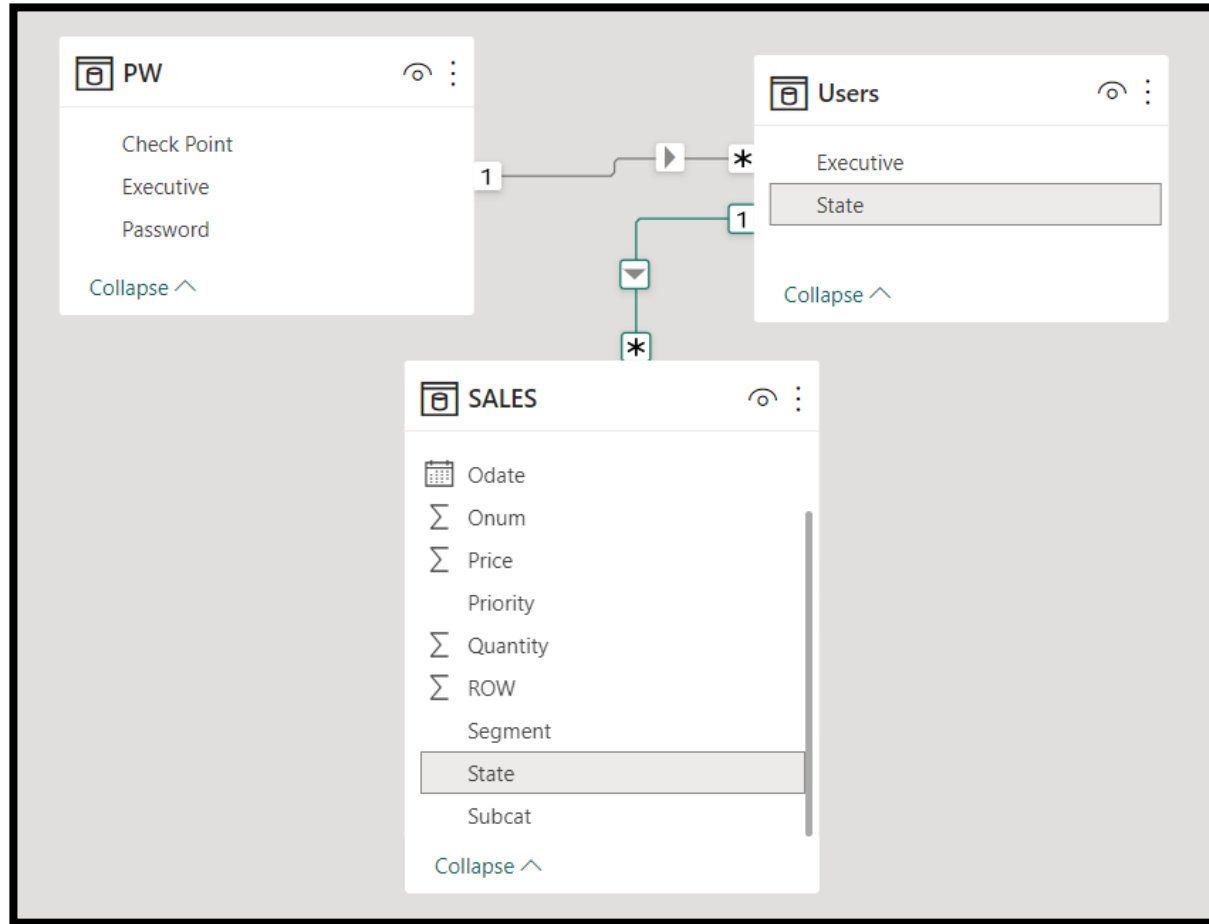
ROW	Onum	Odate	Priority	State	Segment	Category	Subcat	Quantity	Price	Bill Value
1	3	13-10-2010	Low	Manipur	Small Business	Office Supplies	Storage & Organizat	750	39.00	29250
2	6	20-02-2012	Not Specified	Chhattisgarh	Corporate	Office Supplies	Scissors, Rulers and	88	40.00	3520
3	32	15-07-2011	High	Madhya Prades	Corporate	Furniture	Office Furnishings	1761	108.00	190188
4	32	15-07-2011	High	Sikkim	Corporate	Furniture	Tables	160	71.00	11360
5	32	15-07-2011	High	Himalchal Prade	Corporate	Technology	Telephones and Con	141	8.00	1128
6	32	15-07-2011	High	Kerala	Corporate	Technology	Computer Periphera	2	8.00	16
7	35	22-10-2011	Not Specified	Madhya Prades	Corporate	Office Supplies	Pens & Art Supplies	1893	9.00	17037
8	35	22-10-2011	Not Specified	Kerala	Corporate	Technology	Telephones and Con	2485	156.00	387660
9	36	02-11-2011	Critical	Punjab	Home Office	Technology	Telephones and Con	3813	66.00	251658
10	65	17-03-2011	Critical	Uttar Pradesh	Home Office	Technology	Computer Periphera	5	116.00	580
11	66	19-01-2009	Low	Tamilnadu	Consumer	Office Supplies	Pens & Art Supplies	1186	3.00	3558
12	69	03-06-2009	Not Specified	Manipur	Corporate	Furniture	Office Furnishings	52	31.00	1612
13	69	03-06-2009	Not Specified	Madhya Prades	Corporate	Office Supplies	Pens & Art Supplies	90	2.00	180
14	70	17-12-2010	Low	Himalchal Prade	Home Office	Office Supplies	Rubber Bands	7805	2.00	15610
15	70	17-12-2010	Low	Rajasthan	Home Office	Technology	Telephones and Con	4158	206.00	856548

Scenario

- In my organization, I have dedicated employees who are responsible for sales in different states in India.
- I want to create a common report in PowerBI - however, not all employees are permitted to view the data for all states.
- In Level-1 authorization, an employee will be designated to see data pertaining to his working area(s) - that is - one or more states for which he is responsible.
- In Level-2 authorization, we will choose to permit him to see the reports are not.
- Level-2 authorization will over-ride Level-1 authorization.

LEVEL-1 PERMISSION		LEVEL-2 PERMISSION		
State	Executive	Executive	Password	Check Point
Andhra Pradesh	User-1	User-1	mypassword	1
Arunachal Pradesh	User-1	User-2	user@2	1
Assam	User-6	User-3	user@3	1
Bihar	User-6	User-4	user@4	1
Chhattisgarh	User-6	User-5	user@5	0
Gujarat	User-8	User-6	user@6	0
Haryana		User-7	user@7	0
Himalchal Pradesh		User-8	user@8	0
Telangana	User-5	User-9	user@9	0
Jharkhand		User-10	user@10	0
Karnataka	User-2			
Kerala	User-3			

Data Model



Caution

This method is neither a replacement for Row Level Security nor a fully secured mechanism.

I am just trying to create a scenario wherein a single report can be consumed by many users with reference to their permitted level of data access, based upon a password entered in a text slicer.

Row Level Security along with UserPrincipalName() and a few other conditions will certainly be a better alternative. However, this sample can be a starting point for new users to understand on controlling data access.

If you have a better method or if you know a way to improve this further, please let me know. Thanks in advance.

Report

Sample Power BI Report

CARE - This method is neither a replacement for Row Level Security nor fully secured. This is just an attempt to create a FILTER based on the password of an user to restrict the data visibility. I have used "Publish to Web" option for the demonstration purpose, which again is not fully secured.

Instructions:
 1. Key in your password
 2. If you are permitted to see data, results based on specific datasets will be displayed in the screen.

Password: MYPASSWORD

User Name / Status: User-1

State	BillValue	Trans#
Andhra Pradesh	53372958	219
Arunachal Pradesh	78260721	212
Uttar Pradesh	46676007	217
Total	178309686	648

Year: All

Priority: Critical High Low Medium Not Specified

Sales by Category

Category	Value	Percentage
Technology	119M	66.52%
Office Supplies	35M	19.45%
Furniture	25M	14.03%

Sales by Segment

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Executive	Password	Check Point
User-1	mypassword	1
User-2	user@2	1
User-3	user@3	1
User-4	user@4	1
User-5	user@5	0
User-6	user@6	0
User-7	user@7	0
User-8	user@8	0
User-9	user@9	0
User-10	user@10	0

Click here to view the report in your browser:

<http://bit.ly/3WNrI3s>

Learning is a Journey

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