

GLOBAL POWER PLATFORM BOOTCAMP 2021



FEBRUARY 19, 2021

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Get Started with Power BI

Welcome to GPPB 2021. I Hope, you have successfully set up your Power Apps. Now, let's build our Power BI report consuming data from CDS or Dataverse table.

If you haven't prepared your CDS data source, follow the <u>steps</u> here and build a CDS table. If you already have data source in place, please ignore this step.

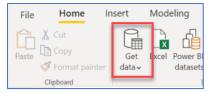
So, Now let's get started!

Prerequisites:

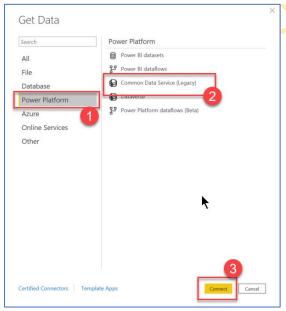
- <u>Download</u> Power BI Desktop
- Microsoft 365 Account or Power BI Trial License to Publish the Power BI Report

Connect CDS Table with Power BI Desktop

- 1. Open Power BI Desktop.
- 2. Click on Get Data from Home menu.



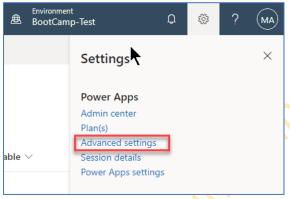
3. Click on Power Platform and select Common Data Service (Legacy)



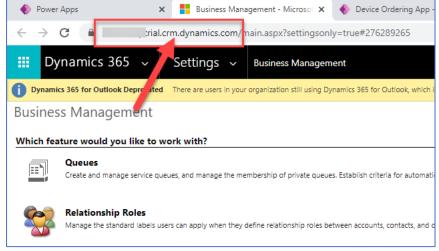
4. Now, we need to provide "Server URL". Now, how we can find our CDS or Dataverse table's Server URL?



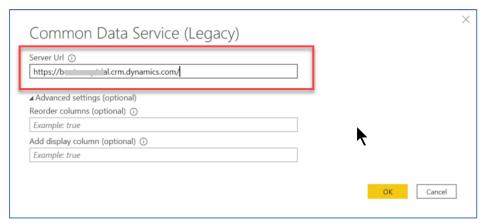
- a. Go to Power Apps Portal using http://web.powerapps.com/
- b. Click on the setting gear and select "Advanced settings"



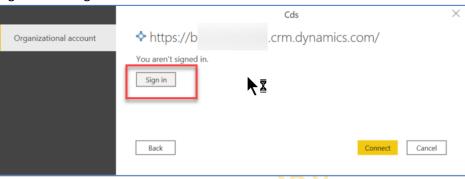
c. This will redirect us to D365 Portal. Copy URL.



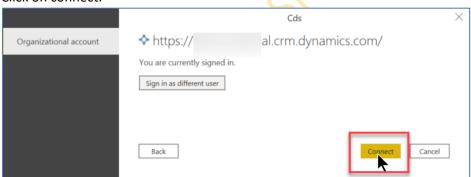
d. Paste to Server URL and click on OK.



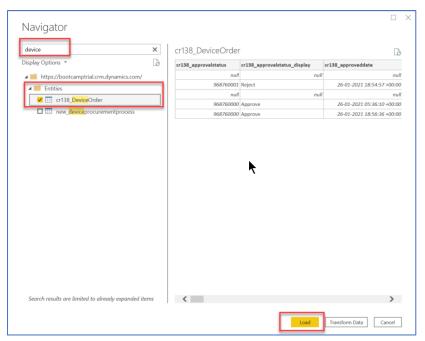
5. Sign In with organizational account.



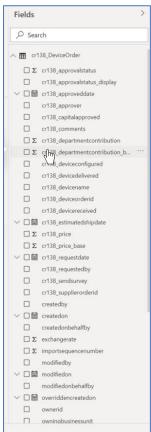
6. Click on connect.



7. This will show all custom and system entities. Search for "Device Order' entity



- 8. This will load all entities.
- 9. Once loaded this will show on the right side pane. The data has been loaded successfully.

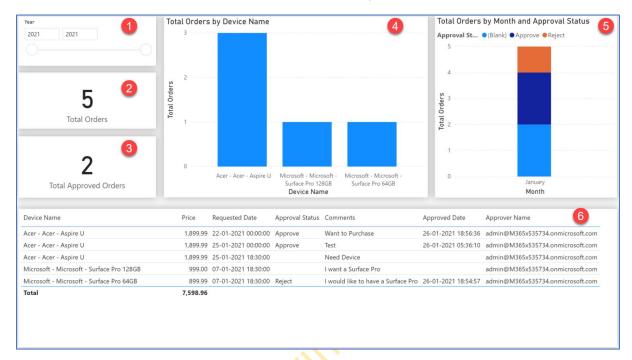


Develop Power BI Report

At the end of the development, we will create a report like the following.

I have also uploaded a sample Power BI file to the GitHub repository. You can directly download the same from there. https://github.com/Dhruvinshah16/Power-

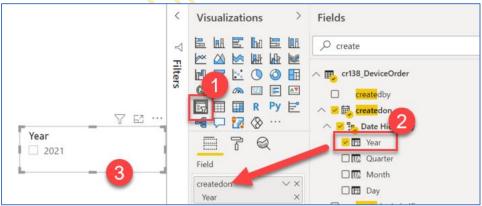
BI/tree/master/Global%20Power%20Platform%20Bootcamp%20-%20Power%20BI



Let's build each component.

Slicer

1. Add Slicer and drag Createdon's year field.



2. Change slicer property.

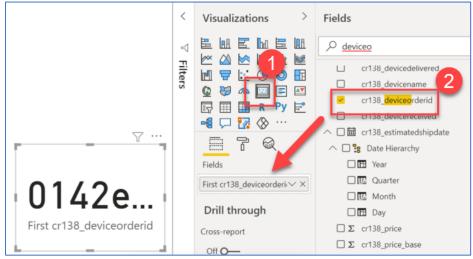


3. At the end, this will look like the following.



Total Orders

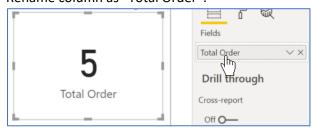
1. Add card visual and drag property "Deviceorderid"



2. Change summarization to Count(Distinct)



3. Rename column as "Total Order".



Approved Order

1. Right-click on the table and add "New measure".



2. Add following formula

Approved Order =

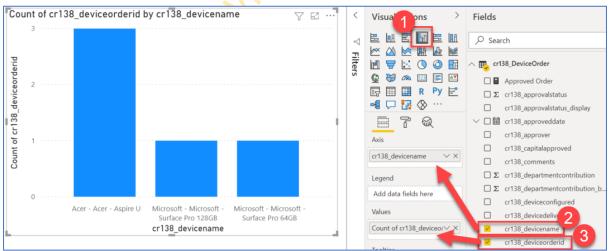
CALCULATE(DISTINCTCOUNT(cr138_DeviceOrder[cr138_deviceorderid]),cr138_DeviceOrder[cr138_approvalstatus_display]="Approve")

3. Add Card visualization and add "Approved Order" measure you just created!



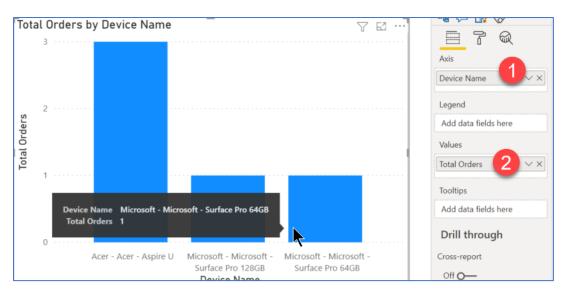
Total Orders by Device Name

1. Add "Clustered column" chart.



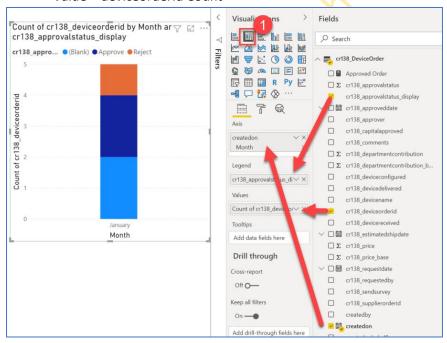
- 2. Drag properties.
 - a. Axis = Device Name
 - b. Values = DeviceOrderID
- 3. Rename the properties by double click on the same.

The graph will look like this.



Total Orders by Month and Approval Status

- 1. Add Stacked column chart and drag following properties.
 - Axis = CreatedOn (Month)
 - Legend = Approvalstatus_display
 - Value = deviceorderid Count



2. Rename columns. The final graph will look like below.

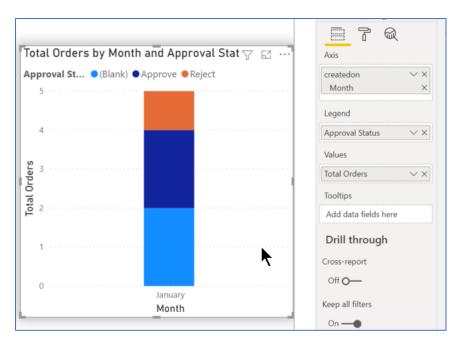
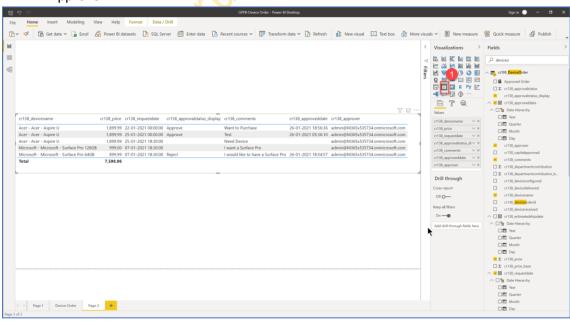


Table Visualization

- 1. Add table visual and add following properties.
 - Device Name
 - Price
 - Request Date
 - ApprovalStatusDisplay
 - Comments
 - ApprovedDate
 - Approver



2. Rename columns and table will look like below.



Arrange All visuals and do formatting

1. Once you arrange all visual, report will look like following.



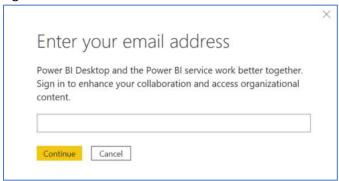
2. Once you arrange all visual, perform formatting.

Publish Report

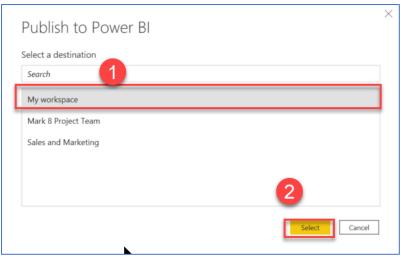
1. To publish report, go to Home > Select Publish.



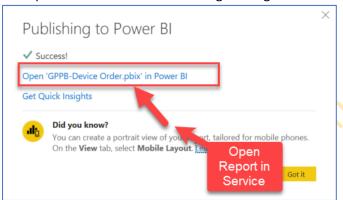
2. Sign in with Office 365 account.



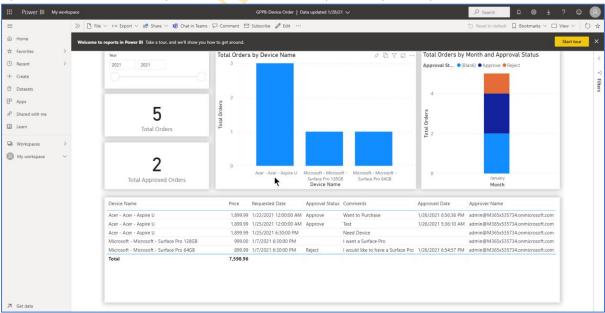
3. Publish to my workspace.



4. Once published it will show following message.

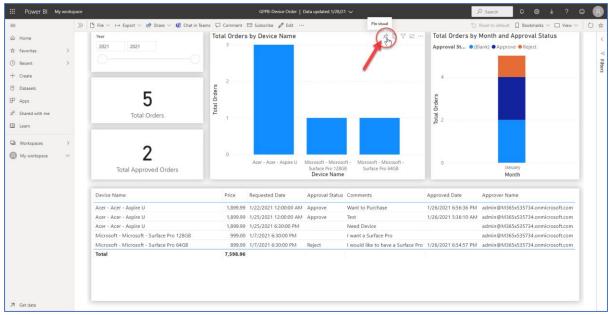


5. Open Power BI Service and you will able to view the report in My Workspace.

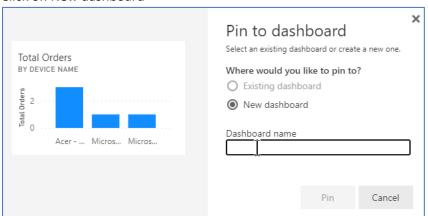


Build Dashboard from Power BI Report

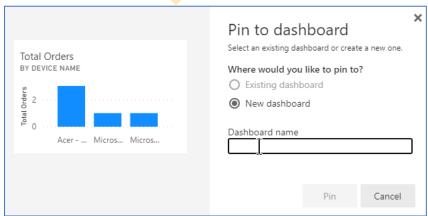
- 1. Keep open your Power BI Service Report.
- 2. Select Power BI Visual from Service and Pin Visual.



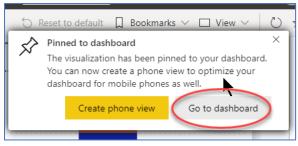
3. Click on New dashboard



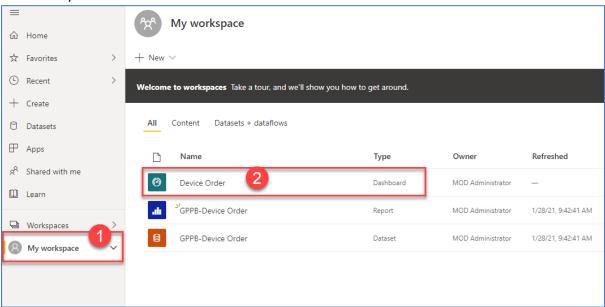
4. Provide name for dashboard and click on Pin.



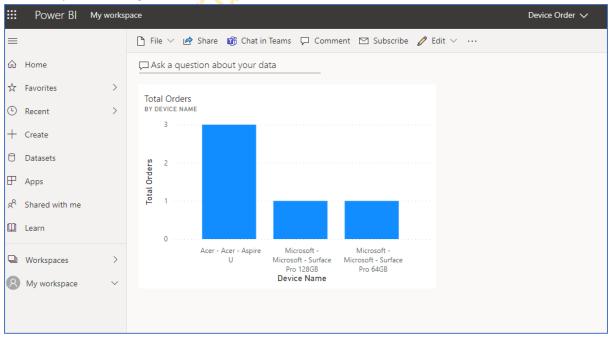
5. Once it is Pinned, this will show notification.



6. Now, to open a dashboard from left navigation select "My Workspace". Select the dashboard you created.

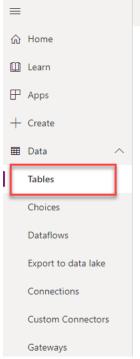


7. This will open following dashboard.



Build CDS or Dataverse Table

- 1. Open Power Apps Portal using http://web.powerapps.com/
- 2. From Left Navigation go to Data section, click on Tables.



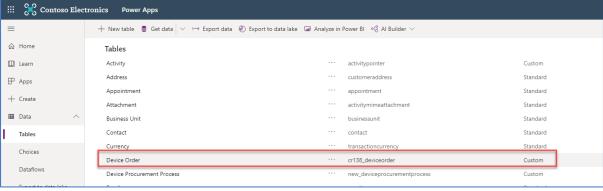
3. Click on New Table from top ribbon.



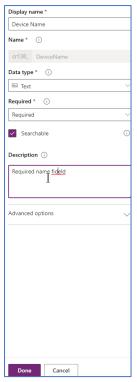
4. Give the name for your table with Display Name column. Give the name of table as "Device Order".



5. Once table has been created it will appear in Grid. Click on table name.



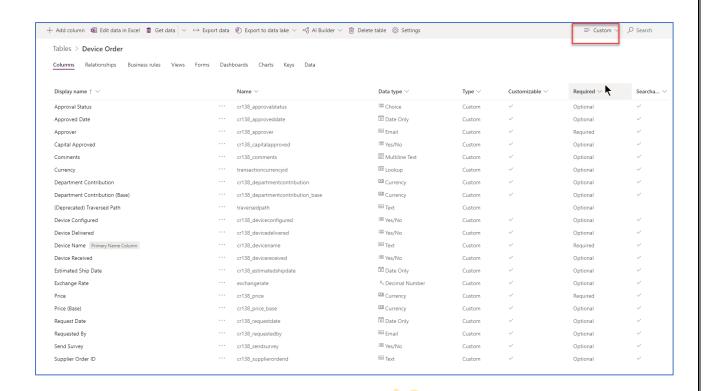
- 6. Now, let's create columns.
- 7. Let's say, if we want to create column name as "Device Name", click on "Add column". Give Datatype as Text and make it required. Click on Done.



- 8. This will create a column Device Name.
- 9. Similar way creates all columns in the table. Please check below table schema.

Column Name	Datatype
Device Name	Text
Approval Status	Choice – Approve/Reject
Approved Date	Date Only
Approver	Email
Capital Approved	Yes/No
Comments	Multiline Text
Department Contribution	Currency
Department Contribution (Base)	Currency
Device Configured	Yes/No
Device Delivered	Yes/No
Device Received	Yes/No
Estimated Ship Date	Date Only
Exchange Rate	Decimal
Price	Currency
Price Base	Currency
Request Date	Date Only
Requested By	Email
Send Survey	Yes/No
Supplier Order ID	Text

10. Once all columns are created, the CDS schema will look like this.



Conclusion:

This is how we can get started with report and dashboard development in Power BI.

Contact Me for any Query

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Download Files:

https://github.com/Dhruvinshah16/Power-

BI/tree/master/Global%20Power%20Platform%20Bootcamp%20-%20Power%20BI