

**TECHNOLOGICAL**  
**ADVANCEMENT SURVEY**  
**DASHBOARD**  
**STEP BY STEP**

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# 1. Raw data

255 Columns x 204 Rows

[illegible]

## 2. Data divided into 6 parts as

SC1_Please indicate below your best estimate of how many employees work at your firm across all locations		SC2_Do you have a significant influence on, or responsibility for, IT-related purchases decisions at your business		SC3_What is your organization's primary business activity?		SC3O_Other specify_What is your organization's primary business activity?		Industry_Re
Responsell	country?	country_	company?	activity?	activity?	Code		
2	107993138	SINGAPORE	100 - 249 Emplo	Yes	Construction	Other		
3	108027058	SINGAPORE	250 - 499 Emplo	Yes	Discrete Manufi	Manufacturing		
4	108121035	MALAYSIA	100 - 249 Emplo	Yes	Process Manufa	Manufacturing		
5	108121407	MALAYSIA	250 - 499 Emplo	Yes	Others Please s	Supply Chain M	Other	
6	108203169	MALAYSIA	250 - 499 Emplo	Yes	Banking / Finan	Banking & Securities		
7	108205868	MALAYSIA	500 - 999 Emplo	Yes	Discrete Manufi	Manufacturing		
8	108241551	MALAYSIA	100 - 249 Emplo	Yes	Process Manufa	Manufacturing		
9	108242032	SINGAPORE	100 - 249 Emplo	Yes	Retail	Retail		
10	108273695	MALAYSIA	100 - 249 Emplo	Yes	Professional Se	Services		
11	108337250	MALAYSIA	250 - 499 Emplo	Yes	Discrete Manufi	Manufacturing		
12	108337407	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
13	108338275	MALAYSIA	250 - 499 Emplo	Yes	Discrete Manufi	Manufacturing		
14	108338959	MALAYSIA	100 - 249 Emplo	Yes	Professional Se	Services		
15	108342066	MALAYSIA	250 - 499 Emplo	Yes	Discrete Manufi	Manufacturing		
16	108344570	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
17	108369612	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
18	108371622	MALAYSIA	250 - 499 Emplo	Yes	Process Manufa	Manufacturing		
19	108371632	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
20	108398468	MALAYSIA	500 - 999 Emplo	Yes	Discrete Manufi	Manufacturing		
21	108399158	MALAYSIA	250 - 499 Emplo	Yes	Transportation	Services		
22	108400346	MALAYSIA	500 - 999 Emplo	Yes	Discrete Manufi	Manufacturing		
23	108430943	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
24	108431334	MALAYSIA	250 - 499 Emplo	Yes	Discrete Manufi	Manufacturing		
25	108433580	MALAYSIA	500 - 999 Emplo	Yes	Wholesale	Other		
26	108434943	MALAYSIA	500 - 999 Emplo	Yes	Others Please s	oil and gas serv	Other	
27	108459569	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
28	108460379	MALAYSIA	500 - 999 Emplo	Yes	Discrete Manufi	Manufacturing		
29	108514659	MALAYSIA	100 - 249 Emplo	Yes	Discrete Manufi	Manufacturing		
30	108515231	SINGAPORE	100 - 249 Emplo	Yes	Others Please s	Providing innov	Other	
31	108515340	SINGAPORE	250 - 499 Emplo	Yes	Construction	Other		
32	108518390	SINGAPORE	100 - 249 Emplo	Yes	Others Please s	Provide consulti	Other	
33	108518399	SINGAPORE	100 - 249 Emplo	Yes	Process Manufa	Manufacturing		

Master Assesement Sample

Assesement Sample\_0

Assesement Sample\_1

Assesement Sample\_2

Assesement Sample\_3

Assesement Sample\_4

Assesement Sample\_5

Assesement Sample\_6



# 3. Data Source 'Form'

## Section wise Detailing

AutoSave Off Sample Questionnaire - PowerBI Project

File Home Insert Draw Design Layout References Mailings Review View Help Foxit PDF

Undo Paste Copy Format Painter Clipboard

Calibri (Body) 9 A A A Font B I U Paragraph Styles

Heading 1 Heading 2 Heading 3 Heading 4 Heading 5 Heading 6 Heading 7

Find Replace Select Editing Voice Editor Reuse Files

17561 Comments Editing Share

1. Singapore  
2. Malaysia

SC1. Please indicate below your best estimate of how many employees work at your firm across all locations within your country. (SINGLE CODE). CHECK FOR QUOTAS

☐ Less than 100  
☐ 100-249  
☐ 250-499  
☐ 500-999  
☐ 1,000 OR MORE

SC2. Do you have a significant influence on, or responsibility for, IT-related purchase decisions at your company? (SINGLE CODE)

☐ Yes ☐ 1 (CONTINUE) ☐ No ☐ 2 (TERMINATE)

SC3. What is your organization's primary business activity? (SINGLE CODE) Please review the list below and select the answer that is most descriptive of your organisation. RECODE FROM FIRST BOX AS PER HERE. CHECK FOR QUOTAS

<input type="checkbox"/> Agriculture/ Mining	<input type="checkbox"/> Banking/ Financial	<input type="checkbox"/> Pharmaceuticals	<input type="checkbox"/> Healthcare
<input type="checkbox"/> Construction	<input type="checkbox"/> Insurance	<input type="checkbox"/> Process Manufacturing	<input type="checkbox"/> Hospitality
<input type="checkbox"/> Telecommunications	<input type="checkbox"/> Real estate	<input type="checkbox"/> Professional Services	<input type="checkbox"/> Information & Media
<input type="checkbox"/> Transportation	<input type="checkbox"/> Discrete Manufacturing	<input type="checkbox"/> Retail	<input type="checkbox"/> Other Services
<input type="checkbox"/> Utilities	<input type="checkbox"/> Life Sciences	<input type="checkbox"/> Wholesale	<input type="checkbox"/> Other (specify)

SECTION 1: IT ATTITUDES & MANAGEMENT

1.1 How important are the following IT-related issues and solutions to your company's continued success? [PLEASE RATE EACH ISSUE / SOLUTION ON A SCALE OF "5" TO "1", WITH "5" BEING VERY IMPORTANT AND "1" BEING NOT AT ALL IMPORTANT]

	Very Important 5	4	3	2	Not at all important 1
(a) Standardizing PCs on the most recent version of operating system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Standardizing servers on the most recent version of operating system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) Deploying open-source applications such as Linux	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Prefer to use bundled in software applications with PCs than purchase stand-alone software	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e) Using hosted software applications via third-party service providers (ASPs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1.2 Which statement best describes your organisation's approach to digital transformation? [CHECK ONE]

☐ We have just started our digital transformation journey (less than 1 year) 1  
☐ We have been executing a digital transformation strategy for the past 1-3 years 2  
☐ We have been executing a digital transformation strategy for more than three years 3  
☐ We are planning our digital transformation strategy now 4  
☐ We do not have a digital transformation strategy 5

1.3 How is IT/telecommunications service and support managed across all locations in your company? [CHECK ALL THAT APPLY]. SHOULD NOT CHECK ANY OF FIRST FOUR RESPONSES IF CHECKED LAST RESPONSE

☐ By full-time, internal, dedicated IT employee(s)  
☐ By part-time, internal, IT employee(s)  
☐ By non-technical company employees who manage IT on a part-time basis, in addition to their main duties  
☐ By external companies/consultants or partners, such as resellers, integrators, IT service providers, etc.  
☐ No one actually looks after it [PROGRAMMING: SINGLE RESPONSE]

SECTION 2: DESKTOPS AND NOTEBOOKS

The following questions are about the desktop and notebook PCs used at your company

2.1 Please indicate the total number of desktop and notebook PCs that your company owns and ACTIVELY uses (do not include any that are not actively being used). [CHECK ONE RESPONSE ONLY FOR EACH ROW]

	None	Under 10	10-19	20-24	25-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199	200-249	250-299	300-399	400-499	500 or More
(a) Desktop PCs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Notebook PCs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.2A Please check the brands of desktop PCs now in use at your company? Please select all that apply.

For Desktop

1. Acer  
2. Apple  
3. Dell  
4. Fujitsu  
5. HP  
6. Lenovo  
7. Assembled/White Box  
8. Other Please specify

2.2B Please check the brands of notebook PCs now in use at your company? Please select all that apply.

For Notebook

1. Acer  
2. Apple  
3. Asus  
4. BenQ  
5. Dell  
6. Fujitsu  
7. HP  
8. Lenovo  
9. Samsung  
10. Sony  
11. Toshiba  
12. Other Please specify

2.3a1 What are the Operating Systems (OS) for the PCs that you use currently?  
For Desktop PCs Please select all that apply.

1. Apple/ Mac  
2. Windows 10  
3. Windows 7/ 8/ earlier  
4. Linux/ Other Open Source  
5. Others please specify

2.3a2 What are the Operating Systems (OS) for the PCs that you use currently?  
For Notebook PCs Please select all that apply.

1. Apple/ Mac  
2. Windows 10  
3. Windows 7/ 8/ earlier  
4. Linux/ Other Open Source  
5. Others please specify

2.3b1 What is the breakdown of your current PCs by Operating System (OS)? Ask only the option selected in 2.3a1.  
For Desktop PCs Total sum should be 100%. Please enter whole number only.

1. Apple/ Mac \_\_\_\_\_  
2. Windows 10 \_\_\_\_\_  
3. Windows 7/ 8/ earlier \_\_\_\_\_  
4. Linux/ Other Open Source \_\_\_\_\_  
5. Other Operating System \_\_\_\_\_

2.3b2 What is the breakdown of your current PCs by Operating System (OS)? Ask only the option selected in 2.3a2.  
For Notebook PCs Total sum should be 100%. Please enter whole number only.

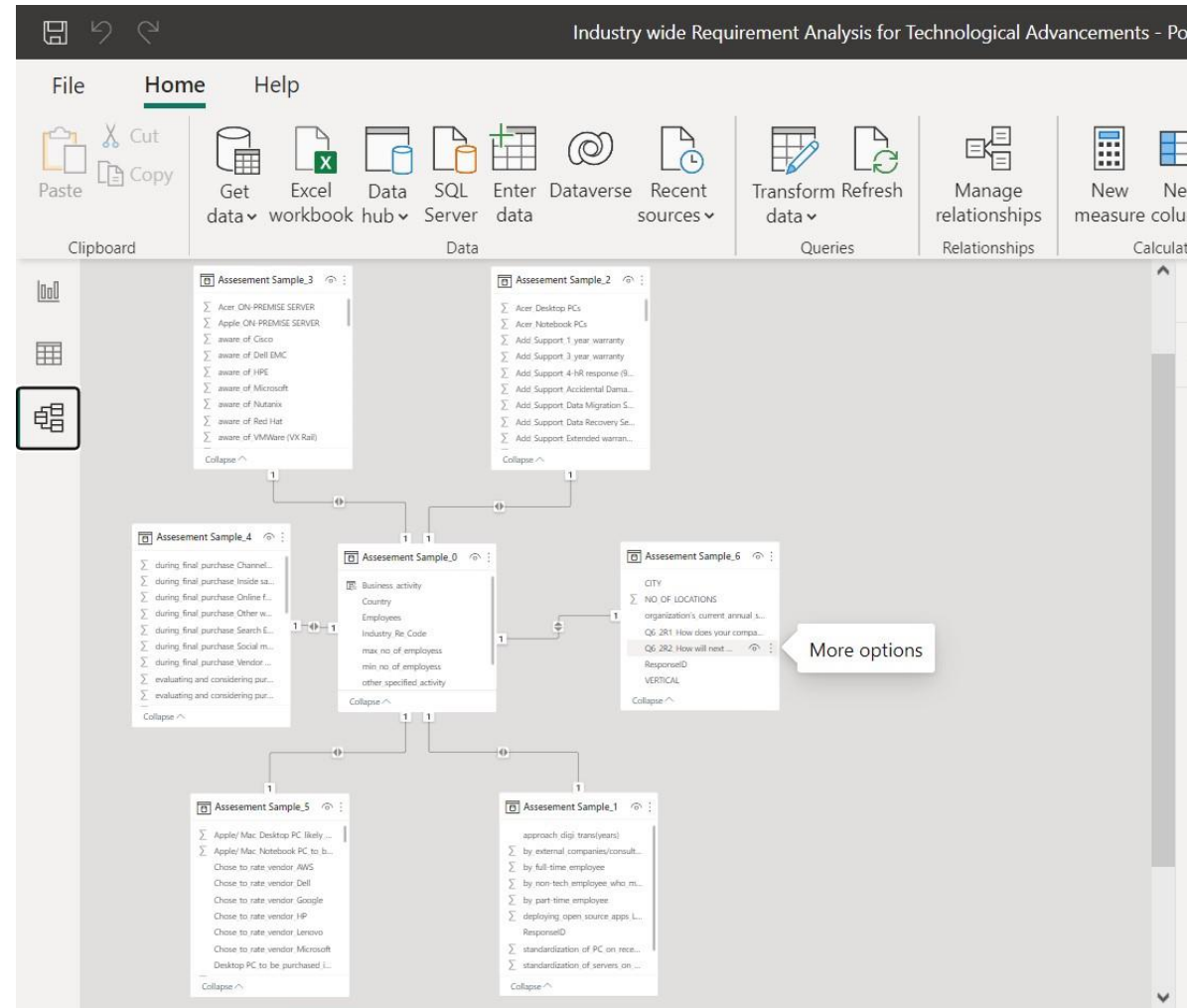
1. Apple/ Mac \_\_\_\_\_  
2. Windows 10 \_\_\_\_\_

Page 1 of 7 3654 words English (United Kingdom) Accessibility: Investigate

Focus 80%

# 4. Relationship Schema in Power BI

STAR  
schema



All data set in  
1 <---> 1  
relationship

# 5. Data Cleaning in M-query

## Power Query Editor

The screenshot displays the Power Query Editor window for a query named "Assesment Sample\_2". The main area shows a table with 38 rows and 7 columns. The columns are: ResponseID, company\_owned\_desktop\_PCs\_and\_ACTIVELY..., company\_owned\_notebook PCs\_and\_ACTIVELY..., Acer\_Desktop PCs, Apple\_Desktop PCs, Dell\_Desktop PCs, and Fujitsu\_Desktop PCs. The data is organized into a grid with alternating light and dark gray rows. The right sidebar contains the "Query Settings" pane, which includes the "Name" field (Assesment Sample\_2), "All Properties" section, and "APPLIED STEPS" section. The "APPLIED STEPS" section lists various transformations applied to the data, such as "Source", "Navigation", "Promoted Headers", "Changed Type", "Merged Queries", "Expanded Assesment Sa...", "Renamed Columns", "Reordered Columns", "Removed Columns", "Renamed Columns1", "Filtered Rows", "Removed Columns1", "Added Conditional Column", "Reordered Columns1", "Removed Columns2", "Renamed Columns2", "Removed Columns3", "Replaced Value", "Replaced Value1", "Replaced Value2", "Replaced Value3", "Replaced Value4", "Replaced Value5", "Replaced Value6", "Replaced Value7", "Replaced Value8", "Replaced Value9", "Replaced Value10", "Removed Columns4", "Replaced Value11", "Replaced Value12", "Replaced Value13", "Replaced Value14", and "Replaced Value15".

ResponseID	company_owned_desktop_PCs_and_ACTIVELY...	company_owned_notebook PCs_and_ACTIVELY...	Acer_Desktop PCs	Apple_Desktop PCs	Dell_Desktop PCs	Fujitsu_Desktop PCs
1	107993138	10-19	Under 10	null	null	null
2	108027058	100-149	20-24	1	null	null
3	108121035	100-149	10-19	1	null	1
4	108121407	20-24	10-19	null	null	1
5	108203169	100-149	None	null	null	1
6	108205868	100-149	50-99	1	null	1
7	108241551	25-49	10-19	null	null	1
8	108242032	Under 10	None	null	null	null
9	108273695	50-99	20-24	null	null	null
10	108337250	50-99	10-19	1	null	1
11	108337407	50-99	10-19	null	1	null
12	108338275	25-49	Under 10	1	null	1
13	108338959	150-199	25-49	null	null	1
14	108342066	150-199	50-99	null	null	null
15	108344570	25-49	Under 10	null	null	null
16	108369612	25-49	10-19	null	null	1
17	108371622	50-99	25-49	null	null	null
18	108371632	25-49	20-24	1	null	null
19	108398468	50-99	25-49	null	null	null
20	108399158	50-99	10-19	null	null	null
21	108400346	200-249	25-49	null	1	1
22	108430943	10-19	10-19	null	null	1
23	108431334	50-99	25-49	null	null	1
24	108433580	25-49	200-249	1	null	1
25	108434943	25-49	150-199	1	null	1
26	108459569	50-99	10-19	1	null	null
27	108460379	100-149	20-24	1	null	1
28	108514659	10-19	Under 10	null	null	null
29	108515231	20-24	20-24	null	null	null
30	108515340	50-99	25-49	null	null	null
31	108518390	25-49	Under 10	null	null	null
32	108518399	50-99	20-24	1	1	null
33	108537665	50-99	50-99	null	null	1
34	108538166	25-49	20-24	null	null	null
35	108538594	Under 10	10-19	null	null	null
36	108538658	20-24	20-24	null	null	1
37	108539546	25-49	10-19	null	null	1
38	108539546	25-49	10-19	null	null	null

62 COLUMNS, 204 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 01:37 PM

# 6. Data Wrangling with DAX

Industry wide Requirement Analysis for Technological Advancements - Power BI Desktop

File Home Help Table tools

Name: Assement Sampl...

Structure

Mark as date table  
Calendars

Manage relationships  
Relationships

New measure  
Quick measure  
New column  
New table  
Calculations

ResponseID	Country	min_no_of_employess	max_no_of_employess	primary_business_activity	other_specified_activity	Industry_Re_Code
107993138	SINGAPORE	100	249	Construction		Other
108027058	SINGAPORE	250	499	Discrete Manufacturing		Manufacturing
108121035	MALAYSIA	100	249	Process Manufacturing		Manufacturing
108203169	MALAYSIA	250	499	Banking / Financial		BankingManufacturing&ManufacturingSecuriti
108205868	MALAYSIA	500	999	Discrete Manufacturing		Manufacturing
108241551	MALAYSIA	100	249	Process Manufacturing		Manufacturing
108242032	SINGAPORE	100	249	Retail		Retail
108273695	MALAYSIA	100	249	Professional Services		Services
108337250	MALAYSIA	250	499	Discrete Manufacturing		Manufacturing
108337407	MALAYSIA	100	249	Discrete Manufacturing		Manufacturing
108338275	MALAYSIA	250	499	Discrete Manufacturing		Manufacturing
108338959	MALAYSIA	100	249	Professional Services		Services
108342066	MALAYSIA	250	499	Discrete Manufacturing		Manufacturing
108344570	MALAYSIA	100	249	Discrete Manufacturing		Manufacturing
108369612	MALAYSIA	100	249	Discrete Manufacturing		Manufacturing
108371622	MALAYSIA	250	499	Process Manufacturing		Manufacturing
108371632	MALAYSIA	100	249	Discrete Manufacturing		Manufacturing
108398468	MALAYSIA	500	999	Discrete Manufacturing		Manufacturing
108399158	MALAYSIA	250	499	Transportation		Services
108400346	MALAYSIA	500	999	Discrete Manufacturing		Manufacturing
108430943	MALAYSIA	100	249	Discrete Manufacturing		Manufacturing

Table: Assement Sample\_0 (204 rows)

Data

Search

Assement Sample\_0

- Business\_activity
- Country
- Employees
- Industry\_Re\_Code
- max\_no\_of\_employess
- min\_no\_of\_employess
- other\_specified\_activity
- primary\_business\_activity
- ResponseID

> Assement Sample\_1

> Assement Sample\_2

> Assement Sample\_3

> Assement Sample\_4

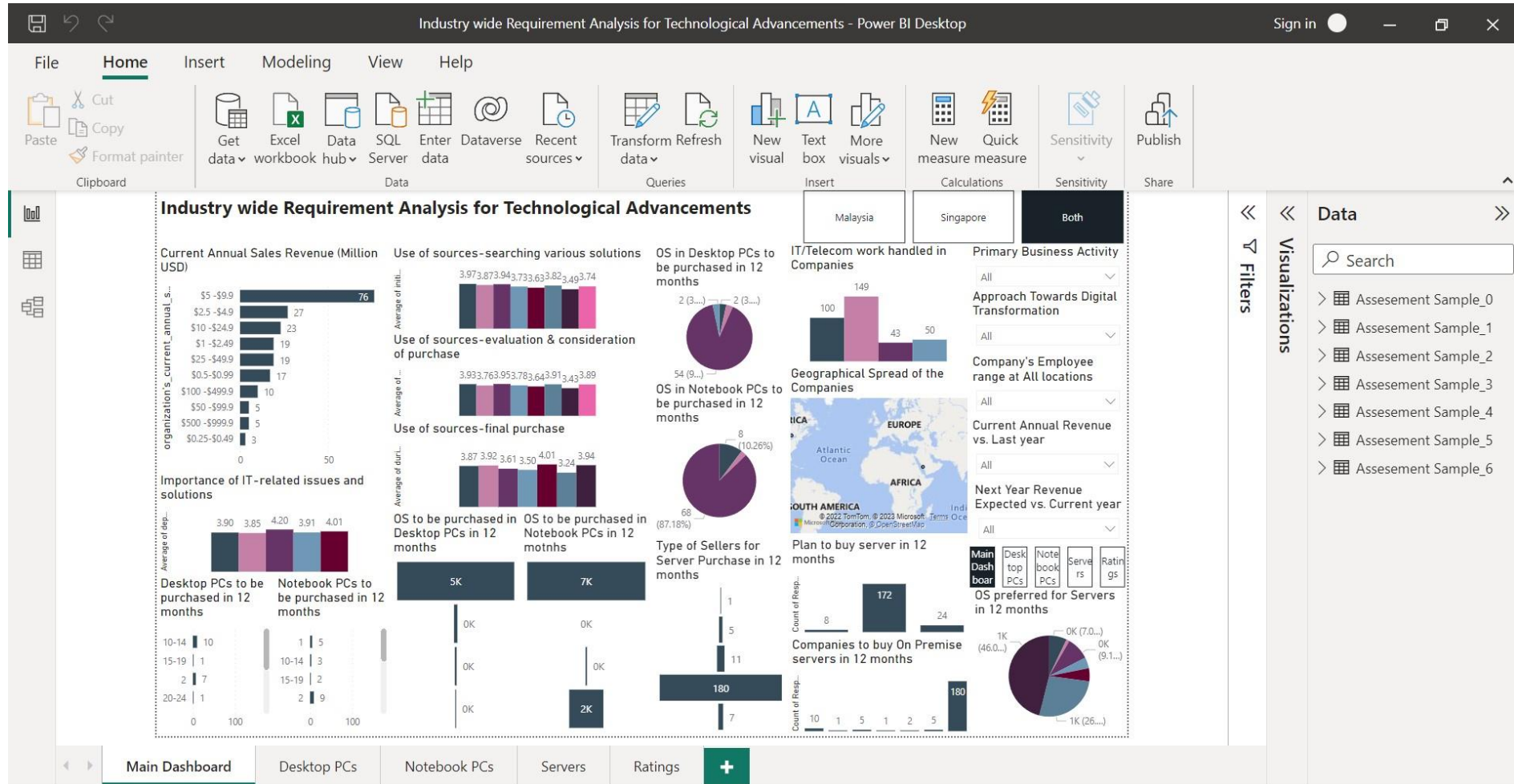
> Assement Sample\_5

> Assement Sample\_6

Necessary Measures/  
Columns created



# 7. Dashboard Visualization with Insights



Clean  
&  
Self  
Explanatory  
Viz.



# THANK YOU

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For more information, please check the attached PBIX & PDF files