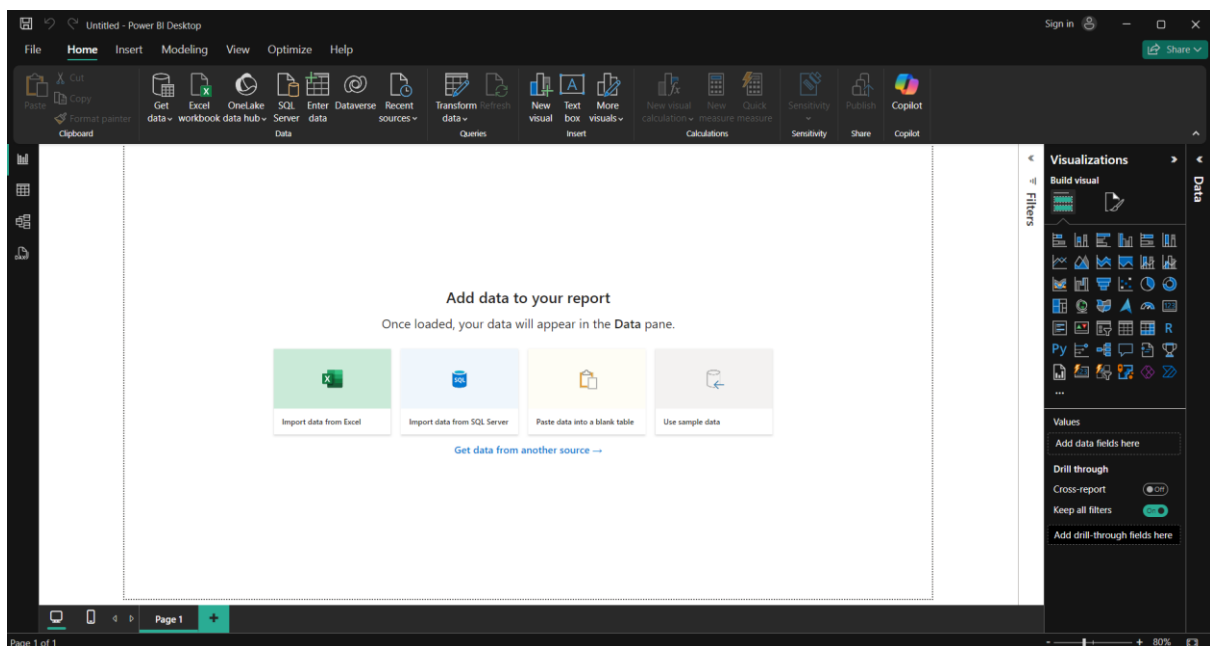


The Week 1 task for Edunet Internship was done on Power BI. I imported & created various tables, I'll be explaining this in-detailed below:

1) Importing the data

Open Power BI Desktop click on blank report this will open the Power BI Desktop window, on right hand side under Visualizations you'll be able to see multiple charts, graphs, etc. The middle area is known as a Canvas where you can import data from various sources by clicking on **"Get data from another source"** after clicking that a new window will pop-up where you can select the format of the file which you want to import after which you have to click connect & import your file then select **"Load"**.



2) Transforming Data

On the right-hand side you'll see your data, in order to transform it click the **"Transform Data"** button under the **"Home"** tab. This will open the Power Query Editor, where you can remove rows or columns which you don't need, split or merging columns, replace

the values & much more things. You can understand the quality of your data by going into the **“View”** & then by clicking **“Column quality”**, this will show you if your data has errors, duplicates or nulls.

The screenshot shows the Power Query Editor interface. The 'View' tab is selected, and the 'Column quality' tool is applied to the 'Product type' column. The main data table is visible with columns: Product type, sku, Price, Availability, Number of products sold, Revenue generated, and Custom. The 'Column quality' tool is applied to the 'Product type' column, showing a summary of data quality metrics.

Column	Valid	Error	Empty
Product type	100%	0%	0%
sku	100%	0%	0%
Price	100%	0%	0%
Availability	100%	0%	0%
Number of products sold	100%	0%	0%
Revenue generated	100%	0%	0%
Custom	100%	0%	0%

3) Creating Table:

Since this is a very diverse & big table to use it properly & make the most out of it, we'll sort it into various different tables like one for manufacturing, one for supply chain, etc.

4) Supplier Table:

Under the **“Queries”** tab right click on your dataset & select **“Duplicate”** this will create an exact copy of your dataset which you rename & can work on. Now in supplier table we only need 5 out of all the 24 columns. So, we'll have to remove the unnecessary columns you can do this by right clicking on the column & then clicking on **“Remove”**.

Untitled - Power Query Editor

Home

Transform

Add Column

View

Tools

Help

Group By

Use First Row as Headers

Count Rows

Table

Transpose

Reverse Rows

Detect Data Type

Fill

Rename

Pivot Column

Convert to List

Data Type: Text

Replace Values

Unpivot Columns

Move

Split Column

Format

Extract

Merge Columns

Statistics

Standard

Scientific

Rounding

Information

Trigonometry

Number Column

Date & Time Column

Duration

Run R script

Run Python script

Queries [2]

fx

Table.ReorderColumns(8*Removed Columns,{"Lead time", "Location", "Routes", "Supplier name", "Transportation modes"})

Sustainable Supply Chain

Supplier Table

	Lead time	Location	Routes	Supplier name	Transportation modes
	<div><div>Valid</div><div>100%</div><div>Error</div><div>0%</div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div><div>Error</div><div>0%</div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div><div>Error</div><div>0%</div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div><div>Error</div><div>0%</div><div>Empty</div><div>0%</div></div>	<div><div>Valid</div><div>100%</div><div>Error</div><div>0%</div><div>Empty</div><div>0%</div></div>
1	29	Mumbai	Route B	Supplier 3	Road
2	23	Mumbai	Route B	Supplier 3	Road
3	12	Mumbai	Route C	Supplier 1	Air
4	24	Kolkata	Route A	Supplier 5	Rail
5	5	Delhi	Route A	Supplier 1	Air
6	10	Bangalore	Route A	Supplier 4	Road
7	14	Kolkata	Route A	Supplier 3	Sea
8	22	Bangalore	Route C	Supplier 4	Road
9	13	Mumbai	Route B	Supplier 4	Sea
10	29	Chennai	Route B	Supplier 2	Rail
11	18	Kolkata	Route B	Supplier 5	Road
12	28	Kolkata	Route A	Supplier 2	Air
13	3	Kolkata	Route B	Supplier 4	Road
14	23	Bangalore	Route B	Supplier 5	Road
15	25	Kolkata	Route B	Supplier 1	Air
16	14	Bangalore	Route B	Supplier 1	Sea
17	3	Bangalore	Route A	Supplier 1	Air
18	7	Chennai	Route C	Supplier 1	Air
19	18	Kolkata	Route A	Supplier 2	Sea
20	20	Chennai	Route C	Supplier 4	Road
21	29	Chennai	Route B	Supplier 1	Air
22	19	Chennai	Route C	Supplier 5	Air
23	22	Kolkata	Route C	Supplier 4	Rail
24	11	Kolkata	Route A	Supplier 5	Rail

Query Settings

PROPERTIES

Name

Supplier Table

All Properties

APPLIED STEPS

Source

Promoted Headers

Changed Type

Removed Columns

Reordered Columns

5 COLUMNS, 100 ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 20:50

5) Creating other tables:

Similarly, we'll make a few more table for Inventory, Manufacturing, Supply Chain by selecting the non-essential columns & removing them. You can do this much faster by holding the **"Ctrl"** key & selecting all the unnecessary columns & then removing them at once. If by mistake if you deleted a column which was needed, you can click the **"cross"** that turns red when you hover over it which is under **"APPLIED STEPS"** in the **"Query Settings"** this will bring all the removed columns back.

6) Saving the changes:

After duplicating the original dataset, renaming it, removing unnecessary columns. You have to click **"Close & Apply"** without this the changes won't be saved. After which click the **"File"** tab & save the file.

Untitled - Power Query Editor

Home Transform Add Column View Tools Help

Close & Apply New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Properties Advanced Editor Manage Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Text Use First Row as Headers Replace Values Merge Queries Append Queries Combine Files Azure Machine Learning Vision AI Insights

Close & Apply Close the Query Editor window and apply any pending changes.

Query

Table.RemoveColumns(*Changed Type), ("Production volumes", "Manufacturing lead time", "Manufacturing costs", "Inspection results")

	A6 Product type	A7 SKU	L2 Price	I3 Availability	I3 Number of products sold	L2 Revenue generated	A8 Customer
Supplier Table	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%
Inventory Table	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%
Manufacturing Table	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%
Supply Chain Table							
1	haicare	SKU0	69.80800554	55	802	8661.996792	Non-bir
2	skincare	SKU1	14.84352328	95	736	7460.900065	Female
3	haicare	SKU2	11.31968329	34	8	9577.749626	Unknown
4	skincare	SKU3	61.16134302	68	83	7766.836426	Non-bir
5	skincare	SKU4	4.805496036	26	871	2686.505152	Non-bir
6	haicare	SKU5	1.699976014	87	147	2828.348746	Non-bir
7	skincare	SKU6	4.078332863	48	65	7823.745656	Male
8	cosmetics	SKU7	42.95838438	59	426	8496.103813	Female
9	cosmetics	SKU8	68.71759675	150	78	7517.363211	Female
10	skincare	SKU9	64.01373294	85	980	4971.455988	Unknown
11	skincare	SKU10	15.70779568	11	996	2130.965802	Non-bir
12	skincare	SKU11	90.63545998	95	960	6099.944116	Female
13	haicare	SKU12	71.21338908	41	336	2873.741446	Unknown
14	skincare	SKU13	16.16039332	5	249	4052.738416	Male
15	skincare	SKU14	99.17132864	26	562	8653.570926	Non-bir
16	skincare	SKU15	36.98924493	94	469	5442.086785	Non-bir
17	skincare	SKU16	7.54717211	74	280	6453.792968	Female
18	cosmetics	SKU17	81.46253437	82	126	2629.396435	Female
19	haicare	SKU18	36.44362777	23	620	9364.673505	Unknown
20	skincare	SKU19	51.12387009	100	187	2553.495585	Unknown
21	skincare	SKU20	96.34107244	22	320	8128.027697	Unknown
22	cosmetics	SKU21	84.89386898	60	601	7087.052696	Unknown
23	haicare	SKU22	27.67978089	53	884	2390.807867	Unknown

18 COLUMNS, 100 ROWS Column profiling based on top 100 rows

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