

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

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

Queries [1]

Budget

= Table.TransformColumnTypes(#"Promoted Headers",{{"AdventureWorks Budget Data", type text}, {"Column2", type text}, {"Column3", type text}, {"Column4", type text}, {"Column5", type text}, {"Column6", type text}})

	AdventureWorks Budget Data	Column2	Column3	Column4	Column5	Column6
1	Prepared By: Johnny Bunko	null	null	null	null	null
2	AdventureWorks Confidential	null	null	null	null	null
3	Category	Subcategory	ProductName	ProductKey	Jan, 2016	Feb, 2016
4	Accessories	Bike Racks	Hitch Rack - 4-Bike	483	1131	
5	Accessories	Bike Stands	All-Purpose Bike Stand	486	666	
6	Accessories	Bottles and Cages	Water Bottle - 30 oz.	477	1892	
7	Accessories	Cleaners	Bike Wash - Dissolver	484	160	
8	Accessories	Fenders	Fender Set - Mountain	485	970	
9	Accessories	Helmets	Sport-100 Helmet, Red	212	5317	
10	Accessories	Hydration Packs	Hydration Pack - 70 oz.	478	800	
11	Accessories	Tires and Tubes	Patch Kit/8 Patches	480	554	
12	SubTotal Accessories	null	null	null	14499	
13	Bikes	Mountain Bikes	Mountain-100 Silver, 38	344	370105	
14	Bikes	Road Bikes	Road-150 Red, 62	310	346295	
15	Bikes	Touring Bikes	Touring-2000 Blue, 60	60	133631	
16	SubTotal Bikes	null	null	null	850031	
17	Clothing	Caps	AWC Logo Cap	223	479	
18	Clothing	Gloves	Half-Finger Gloves, S	462	598	
19	Clothing	Jerseys	Long-Sleeve Logo Jersey, S	226	4087	
20	Clothing	Shorts	Men's Sports Shorts, S	445	421	
21	Clothing	Socks	Mountain Bike Socks, M	218	24	
22	Clothing	Vests	Classic Vest, S	471	980	
23	SubTotal Clothing	null	null	null	6580	

This is for CLEAN UP MESSY DATA

Query Settings

PROPERTIES

Name: Budget

All Properties

APPLIED STEPS

- Source
- Navigation
- Promoted He...
- Changed Type

File Home Transform Add Column View Tools Help

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

17 COLUMNS, 24 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 8:37 PM

Navigator



Display Options ▾



Budget.xlsx [1]

 Budget

Suggested Tables [1]

 AdventureWorks Budget Data (Budget)

Budget



AdventureWorks Budget Data	Column2	Column3	Column4
Prepared By: Johnny Bunko		null	null
AdventureWorks Confidential		null	null
Category	Subcategory	ProductName	
Accessories	Bike Racks	Hitch Rack - 4-Bike	
Accessories	Bike Stands	All-Purpose Bike Stand	
Accessories	Bottles and Cages	Water Bottle - 30 oz.	
Accessories	Cleaners	Bike Wash - Dissolver	
Accessories	Fenders	Fender Set - Mountain	
Accessories	Helmets	Sport-100 Helmet, Red	
Accessories	Hydration Packs	Hydration Pack - 70 oz.	
Accessories	Tires and Tubes	Patch Kit/8 Patches	
SubTotal Accessories		null	null
Bikes	Mountain Bikes	Mountain-100 Silver, 38	
Bikes	Road Bikes	Road-150 Red, 62	
Bikes	Touring Bikes	Touring-2000 Blue, 60	
SubTotal Bikes		null	null
Clothing	Caps	AWC Logo Cap	
Clothing	Gloves	Half-Finger Gloves, S	
Clothing	Jerseys	Long-Sleeve Logo Jersey, S	
Clothing	Shorts	Men's Sports Shorts, S	
Clothing	Socks	Mountain Bike Socks, M	
Clothing	Vests	Classic Vest, S	
SubTotal Clothing		null	null



Load

Transform Data

Cancel

Finalized The Data With Cleaned up in Power Bi Editor • Last saved: Today at 5:21 PM

Search

Sign in

File Home Help Table tools Column tools

Name Total Sales Amount Format Decimal number Summation Sum Sort by column Data groups Manage relationships New column

Data type Decimal number \$ % 0 Data category Uncategorized Sort Groups Relationships Calculations

Structure Formatting Properties

DAX

This is the Dax Formula for Total Sales of Amount Actually says that we can easily add column.

Total Sales Amount = Sales[SalesAmount] + Sales[TaxAmt]

PromotionKey	SalesTerritoryKey	SalesOrderNumber	OrderQuantity	UnitPrice	TotalProductCost	SalesAmount	TaxAmt	Total Sales Amount
1	9 SO43710	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43715	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43773	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43816	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43925	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43927	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43932	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43963	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43971	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO43993	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44024	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44025	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44033	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44052	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44137	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44157	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44167	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44196	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44221	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44338	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44340	1	1	3578	2171.2942	\$3,578	\$286	3865
1	9 SO44343	1	1	3578	2171.2942	\$3,578	\$286	3865

Table: Sales (58,189 rows) Column: Total Sales Amount (42 distinct values)

Search

Budget

Calendar

Customer

Product

Sales

CustomerKey

OrderDate

OrderQuantity

ProductKey

PromotionKey

SalesAmount

SalesLineNumber

SalesOrderNumber

SalesTerritoryKey

ShipDate

TaxAmt

Total Sales Amount

TotalProductCost

UnitPrice

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Columns Remove Rows Keep Rows Remove Rows Split Column Group By Data Type: Text Use First Row as Headers 1 Replace Values Merge Queries Append Queries Combine Files Combine Text Analytics Vision Azure Machine Learning Close New Query Data Sources Parameters Query Manage Columns Reduce Rows Sort Transform AI Insights

Queries [1]

Budget

	Category	Subcategory	ProductName	ProductKey	Jan, 2016
1	Accessories	Bike Racks	Hitch Rack - 4-Bike	483	1131
2	Accessories	Bike Stands	All-Purpose Bike Stand	486	666
3	Accessories	Bottles and Cages	Water Bottle - 30 oz.	477	1892
4	Accessories	Cleaners	Bike Wash - Dissolver	484	160
5	Accessories	Fenders	Fender Set - Mountain	485	970
6	Accessories	Helmets	Sport-100 Helmet, Red	212	5317
7	Accessories	Hydration Packs	Hydration Pack - 70 oz.	487	809
8	Accessories	Tires and Tubes	Patch Kit/8 Patches	480	3554
9	Bikes	Mountain Bikes	Mountain-100 Silver, 38	344	370105
10	Bikes	Road Bikes	Road-150 Red, 12	310	341205
11	Bikes	Touring Bikes	Touring-2000 Blue, 60	560	133631
12	Clothing	Caps	AWC Logo Cap	223	479
13	Clothing	Gloves	Half-Finger Gloves, S	462	598
14	Clothing	Jerseys	Long-Sleeve Logo Jersey, S	226	4087
15	Clothing	Shorts	Men's Sports Shorts, S	445	421
16	Clothing	Socks	Mountain Bike Socks, M	218	24
17	Clothing	Vests	Classic Vest, S	471	980

The final Data set
After cleaned
using removed top
Rows and Changed
types

Query Settings

PROPERTIES

Name: Budget

All Properties

APPLIED STEPS

- Source
- Navigation
- Removed Top Rows
- Promoted Headers
- Changed Type
- Filtered Rows

17 COLUMNS, 17 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 6:55 PM

File Home Help Table tools Measure tools

Name Total Sales

Format General

Data category Uncategorized



New measure



Quick

measure

measure

Home table Sales

\$ % , .00 Auto

Structure

Formatting

Properties

Calculations

 1 Total Sales = SUM(Sales[SalesAmount]) + SUM(Sales[TaxAmt])

PromotionKey	SalesTerritoryKey	SalesOrderNumber	SalesOrderLineNumber	OrderQuantity	UnitPrice	TotalProductCost	SalesAmount	TaxAmt	Total Sales Amount
1	9	SO43710	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43715	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43773	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43816	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43925	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43927	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43932	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43969	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43970	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO43993	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44024	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44025	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44033	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44052	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44137	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44157	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44167	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44196	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44221	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44338	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44340	1	1	3578	2171.2942	\$3,578	\$286	\$3,865
1	9	SO44343	1	1	3578	2171.2942	\$3,578	\$286	\$3,865

Data

Search

- > Budget
- > Calendar
- > Customer
- > Product
- > Sales
 - CustomerKey
 - > OrderDate
 - Σ OrderQuantity
 - ProductKey
 - Σ PromotionKey
 - Σ SalesAmount
 - Σ SalesOrderLineNumber
 - SalesOrderNumber
 - SalesTerritoryKey
- > ShipDate
- Σ TaxAmt
- Total Sales
- Total Sales Amount
- Σ TotalProductCost

Paste	Cut	Copy	Get data	Excel	OneLake	SQL Server	Enter data	Dataverse	Recent sources	Transform data	Refresh	New visual	Text box	More	New measure	Quick measure	Sensitivity	Publish	Copilot
Clipboard			data	workbook	data hub					data									

Year	Month	Sum of Total Sales Amount	Total Sales
2020	Jan	\$31,652,464	\$31,652,464
2020	Feb	\$31,652,464	\$31,652,464
2020	Mar	\$31,652,464	\$31,652,464
2020	Apr	\$31,652,464	\$31,652,464
2020	May	\$31,652,464	\$31,652,464
2020	Jun	\$31,652,464	\$31,652,464
2020	Jul	\$31,652,464	\$31,652,464
2020	Aug	\$31,652,464	\$31,652,464
2020	Sep	\$31,652,464	\$31,652,464
2020	Oct	\$31,652,464	\$31,652,464
2020	Nov	\$31,652,464	\$31,652,464
2020	Dec	\$31,652,464	\$31,652,464
2021	Jan	\$31,652,464	\$31,652,464
2021	Feb	\$31,652,464	\$31,652,464
2021	Mar	\$31,652,464	\$31,652,464
Total		\$31,652,464	\$31,652,464

Here you see the Total sales is visible. The Measure is not stored as part of table but in this Sales there is only available you can see and use as visualizations only not as table

Visualizations
Data

Build visual
Filters

Customer
Product

Sales
CustomerKey

OrderDate
OrderQuantity

ProductKey
PromotionKey

SalesAmount
SalesOrderLineNumber

SalesOrderNumber
SalesTerritoryKey

ShipDate
TaxAmt

Total Sales
Total Sales Amount

UnitPrice
Territories

Total Sales

Power BI

Scratch

Home (preview)

Favorites

Recent

Apps

Shared with me

Workspaces

Scratch

DASHBOARDS
You have no dashboards

REPORTS
LearnPowerBI

WORKBOOKS
You have no workbooks

DATASETS
LearnPowerBI

DATAFLOWS
You have no dataflows

Search content...

Dashboards Reports Workbooks Datasets Dataflows

NAME ↑

ACTIONS

OWNER

INCLUDED IN APP

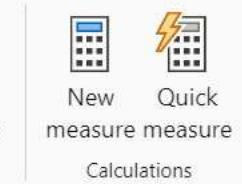
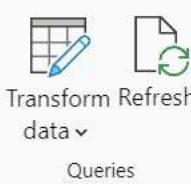
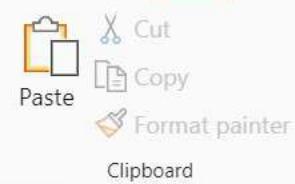
LearnPowerBI

Scratch

+ Create

Publish app

I am Publish the Report and we can edit with the dashboard with in Excel files also, We should make again Good Dashboard. Also, we can sharing the Dashboard with a simple Email address of your partner.



Year	Sum of SalesAmount
2020	29,307,836.59
2021	29,307,836.59
2022	29,307,836.59
2023	29,307,836.59
Total	29,307,836.59

Year	Sum of BudgetAmount
2020	16869574
2021	16869574
2022	16869574
2023	16869574
Total	16869574

Filters

Search

Filters on this page

Year
is (All)

Filter type

Basic filtering

- Select all
- 2020 366
- 2021 365
- 2022 365
- 2023 365

 Require single selection

Add data fields here

Add data fields here

Visualizations

Build visual



Values

Add data fields here

Drill through

Cross-report offKeep all filters

Add drill-through fields here

Search

- FiscalQuarter
- FiscalYear
- Month
- MonthLong
- \sum MonthNum
- > MonthYear
- > MonthYearLong
- \sum MonthYearNum
- Quarter
- Weekday
- \sum WeekdayNum
- WeekdayWee...
- \sum Year
- > Customer
- > Product
- ✓ Sales
 - CustomerKey
 - > OrderDate
 - \sum OrderQuantity



Share

File Home Help

Territories	...
Country	
Group	
Region	
RegionImage	
SalesTerritoryKey	
Collapse ^	

Product	...
Category	
Color	
Σ DaysToManufacture	
ListPrice	
ModelName	
Photo	
ProductDescription	
ProductKey	
-	
...	
Collapse ^	

Calendar	...
Date	
FiscalMonth	
FiscalMonthLong	
Σ FiscalMonthNum	
FiscalQuarter	
FiscalYear	
Month	
MonthLong	
Σ MonthNum	
Collapse ^	

Sales	...
CustomerKey	
OrderDate	
Σ OrderQuantity	
ProductKey	
Σ PromotionKey	
Σ SalesAmount	
Σ SalesOrderLineNum...	
SalesOrderNumber	

Customer	...
AddressLine1	
BirthDate	
CommuteDistance	

Budget	...
Σ BudgetAmount	
Category	
Month's	
ProductKey	

Properties

Data

- Budget
- Calendar
- Customer
- Product
- Sales
- Territories

All tables



100%



Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Recent Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Choose Columns Remove Columns Keep Rows Remove Rows Sort Data Type: Any Use First Row as Headers Split Column Group By 1 Replace Values Merge Queries Append Queries Combine Files Combine Text Analytics Vision Azure Machine Learning Close New Query Data Sources Parameters Query Manage Columns Reduce Rows Transform AI Insights

Queries [1]

Budget

= Table.Skip(Budget_Sheet, 3)

	ABC 123 Column1	ABC 123 Column2	ABC 123 Column3	ABC 123 Column4	ABC 123 Column5	AE 12
1	Category	Subcategory	ProductName	ProductKey	Jan, 2016	Feb, 2016
2	Accessories	Bike Racks	Hitch Rack - 4-Bike		483	1131
3	Accessories	Bike Stands	All-Purpose Bike Stand		486	666
4	Accessories	Bottles and Cages	Water Bottle - 30 oz.		477	1892
5	Accessories	Cleaners	Bike Wash - Dissolver		484	160
6	Accessories	Fenders	Fender Set - Mountain		485	970
7	Accessories	Helmets	Sport-100 Helmet, Red		212	5317
8	Accessories	Hydration Packs	Hydration Pack - 70 oz.		487	619
9	Accessories	Tires and Tubes	Patch Kit/8 Patches		480	3554
10	SubTotal Accessories					14499
11	Bikes	Mountain Bikes	Mountain-100 Silver, 38		344	370105
12	Bikes	Road Bikes	Road-150 Red, 62		340	346295
13	Bikes	Touring Bikes	Touring-2000 Blue, 60		560	133631
14	SubTotal Bikes					850031
15	Clothing	Caps	AWC Logo Cap		223	479
16	Clothing	Gloves	Half-Finger Gloves, S		462	598
17	Clothing	Jerseys	Long-Sleeve Logo Jersey, S		226	4087
18	Clothing	Shorts	Men's Sports Shorts, S		445	421
19	Clothing	Socks	Mountain Bike Socks, M		218	24
20	Clothing	Vests	Classic Vest, S		471	980
21	SubTotal Clothing					6589
22	Grand Total					871119

There will automatically came the Removed Top Rows Button for the proof of removing Top Rows

Query Settings

PROPERTIES

Name: Budget
All Properties

APPLIED STEPS

Source
Navigation
Removed Top Rows

17 COLUMNS, 22 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 6:55 PM

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

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

Queries [1]

= Table.TransformColumnTypes(#"Promoted Headers",{{"AdventureWorks Budget Data", type text}, {"Column2", type text}, {"Column3", type text}, {"Column4", type text}, {"Column5", type text}, {"Column6", type text}})

Budget

	AdventureWorks Budget Data	Column2	Column3	Column4	Column5	Column6
1	Prepared By: Johnny Bunko	null	null	null	null	null
2	AdventureWorks Confidential	null	null	null	null	null
3	Category	Subcategory	ProductName	ProductKey	Jan, 2016	Feb, 2016
4	Accessories	Bike Racks	Hitch Rack - 4-Bike	483	1131	
5	Accessories	Bike Stands	All-Purpose Bike Stand	486	666	
6	Accessories	Bottles and Cages	Water Bottle - 30 oz.	477	1892	
7	Accessories	Cleaners	Bike Wash - Dissolver	484	160	
8	Accessories	Fenders	Fender Set - Mountain	485	970	
9	Accessories	Helmets	Sport-100 Helmet, Red	212	5317	
10	Accessories	Hydration Packs	Hydration Pack - 70 oz.	487	809	
11	Accessories	Tires and Tubes	Patch Kit/8 Patches	480	3554	
12	SubTotal Accessories	null	null	null	14499	
13	Bikes	Mountain Bikes	Mountain-100 Silver, 38	344	370105	
14	Bikes	Road Bikes	Road-150 Red, 62	310	346295	
15	Bikes	Touring Bikes	Touring-2000 Blue, 60	560	133631	
16	SubTotal Bikes	null	null	null	850031	
17	Clothing	Caps	AWC Logo Cap	223	479	
18	Clothing	Gloves	Half-Finger Gloves, S	462	598	
19	Clothing	Jerseys	Long-Sleeve Logo Jersey, S	226	4087	
20	Clothing	Shorts	Men's Sports Shorts, S	445	421	
21	Clothing	Socks	Mountain Bike Socks, M	218	24	
22	Clothing	Vests	Classic Vest, S	471	980	
23	SubTotal Clothing	null	null	null	6580	

Query Settings

PROPERTIES

Name: Budget

All Properties

APPLIED STEPS

Source, Navigation, Promoted He..., Changed Type

17 COLUMNS, 24 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 8:37 PM

File Home Insert Modeling View Optimize Help Format Data / Drill

Cut Copy Format painter Clipboard

Get data Get workbook data hub OneLake SQL Server Enter data Dataverse Recent sources

Transform data Refresh data New visual Text box More visuals

New measure Quick measure

Sensitivity Publish Copilot

Clipboard Data Queries Insert Calculations Sensitivity Share Copilot

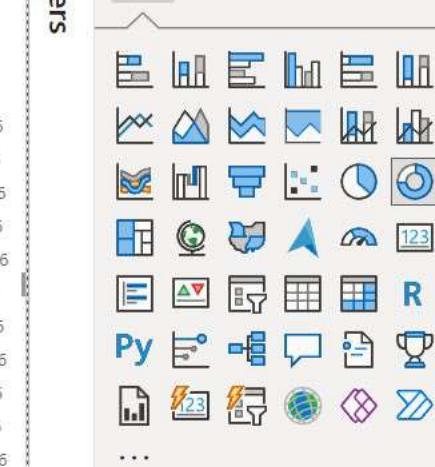
Year	Month	Total Sales	Budget
2020	Jan	\$31,652,464	\$16,8
2020	Feb	\$31,652,464	\$16,8
2020	Mar	\$31,652,464	\$16,8
2020	Apr	\$31,652,464	\$16,8
2020	May	\$31,652,464	\$16,8
2020	Jun	\$31,652,464	\$16,8
2020	Jul	\$31,652,464	\$16,8
2020	Aug	\$31,652,464	\$16,8
2020	Sep	\$31,652,464	\$16,8
2020	Oct	\$31,652,464	\$16,8
2020	Nov	\$31,652,464	\$16,8
2020	Dec	\$31,652,464	\$16,8
2021	Jan	\$31,652,464	\$16,8
2021	Feb	\$31,652,464	\$16,8
2021	Mar	\$31,652,464	\$16,8
Total		\$31,652,464	\$16,8

Variance%, Total Sales, Sum of Total Sales Amount and Budget by Month's



Visualizations

Build visual



Legend

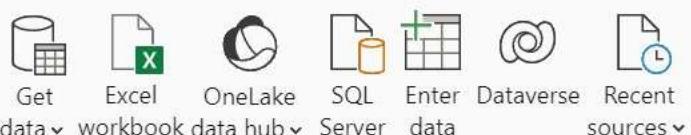
Month's

Variance%
Total Sales
Sum of Total Sales Am...
Budget

Data

Search

- Budget
- Budget
- \sum BudgetAmount
- Category
- Month's
- ProductKey
- ProductName
- Subcategory
- \sum Variance
- Variance%
- Calendar
- Customer
- Product
- Sales
- CustomerKey
- OrderDate
- \sum OrderQuantity
- ProductKey
- \sum PromotionKey



Queries

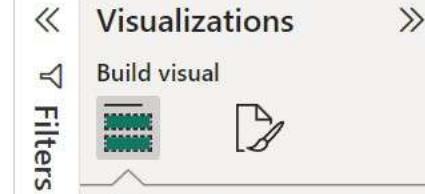
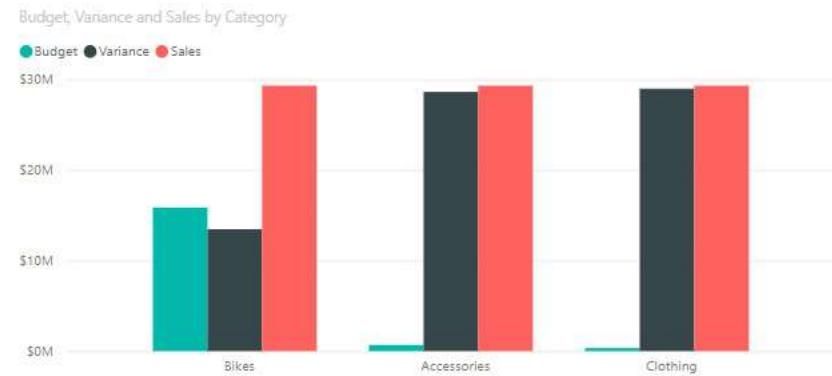
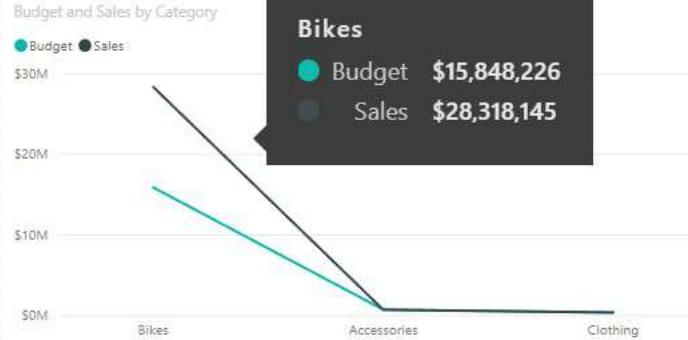
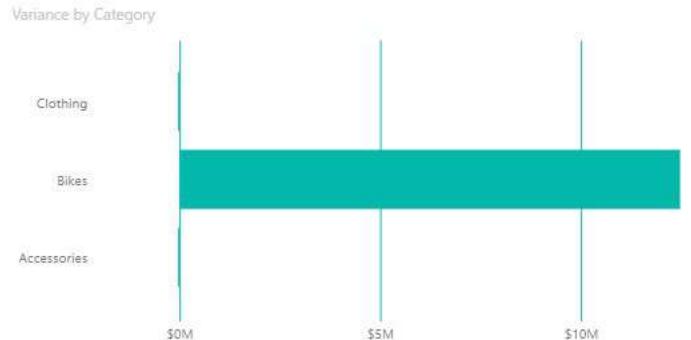
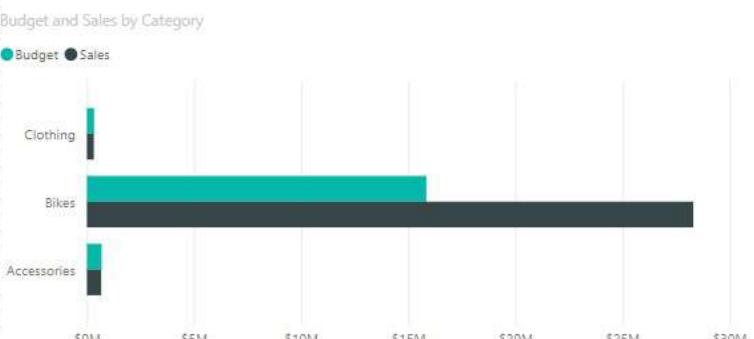
Insert

Calculations

Sensitivity Share Copilot

Unlimited Works

73.7% \$32M \$12M 58.19K
 Variance% Total Sales Amount Variance Count of CustomerKey



- Budget
 - Budget
 - \sum BudgetAmount
 - Category
 - Month
 - ProductKey
 - ProductName
 - Subcategory
 - Variance
 - \sum Variance%

- Calendar
 - Date
 - \sum DateKey
 - FiscalMonth
 - \sum FiscalMonthN...
 - FiscalQuarter
 - FiscalYear
 - Month
 - \sum MonthNum

Add data fields here

Drill through

Cross-report

 off

Keep all filters

 On

Add drill-through fields here

File Home Insert Modeling View Optimize Help Format Data / Drill

Get data New visual Publish Copilot

Year	Month	Sum of SalesAmount	Year	Month	Sum of BudgetAmount
2020	Jan	\$29,307,837	2020	Jan	\$16,869,574
2020	Feb	\$29,307,837	2020	Feb	\$16,869,574
2020	Mar	\$29,307,837	2020	Mar	\$16,869,574
2020	Apr	\$29,307,837	2020	Apr	\$16,869,574
2020	May	\$29,307,837	2020	May	\$16,869,574
2020	Jun	\$29,307,837	2020	Jun	\$16,869,574
2020	Jul	\$29,307,837	2020	Jul	\$16,869,574
2020	Aug	\$29,307,837	2020	Aug	\$16,869,574
2020	Sep	\$29,307,837	2020	Sep	\$16,869,574
2020	Oct	\$29,307,837	2020	Oct	\$16,869,574
2020	Nov	\$29,307,837	2020	Nov	\$16,869,574
2020	Dec	\$29,307,837	2020	Dec	\$16,869,574
2021	Jan	\$29,307,837	2021	Jan	\$16,869,574
Total		\$29,307,837	Total		\$16,869,574

Final Analyzing
Multiples Data

Together

Filters Visualizations Data

Build visual

Search

Filters on this visual

- Country is (All)
- Sum of SalesAmount is (All)
- Add data fields here

Filters on this page

Year is (All)

Filter type Basic filtering

- Select all
- 2020 366
- 2021 365
- 2022 365
- 2023 365

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Columns

- Country
- Sum of SalesAmount

Territories

- Country
- Group
- Region
- RegionImage
- SalesTerritory...

—

H

B

C

G

I

O

D

—

—

#Roadmap:

classmate

Date _____

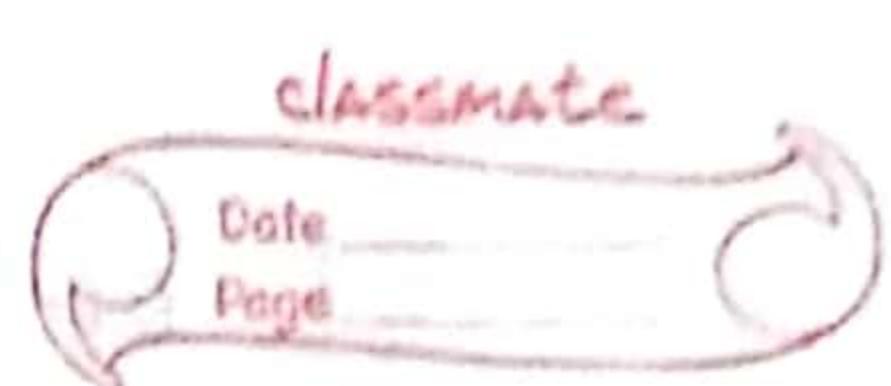
Page _____

Data visualisation.

→ most popular tool name is POWER BI.

- 1) professional Quality report.
- 2) understanding the business intelligence workflow from end-to-end
- 3) Blend and transform raw data into beautiful interactive dashboards.
- 4) POWER BI is rich in ECO system
Query Editor
- 5) POWER BI is case sensitive.
- 6.) [What is the major difference
between and power BI? ?]

"DETAILS TOPICS COVERED"



1. → MEET the Power BI DUO!
 - GET DATA - Connectors and Get simple Data.
 - GET DATA - Query Editor Overview
 - GET DATA - Clean up messy Data
 - GET DATA - Query Editor vs Macros
 - GET DATA - Clean up continued
2. → Relationships - key concepts.
 - Relationships - Exploring Data Using Visuals
 - Relationships - Analyzing Multiple Data Tables Together
3. → DAX - Writing DAX Measure (Implicit vs. Explicit measures).
 - DAX - Calculated Column
 - DAX - Measure vs. Calculated Column-n (key concept)
 - DAX - More Measures and Magic

4. DAX - Before and After POWER BI

4.

→ Visuals - 80/20 Rule

→ Visuals - Tent, Image, Cards, shape

→ Visuals - conditional formatting

→ Visuals - Bar / Column chart, Drill Down

→ Visuals - Line chart, Bar chart

→ Visuals - TOP 20 products / customers.

5.

→ POWER BI .COM - publish

→ POWER BI .COM - Features RnD - EPTH

→ POWER BI .COM - Everything About Dashboard - ~~Others~~

→ POWER BI .COM - Sharing Dashboards with Others.

POWER BI DESKTOP

- Authoring Tool
- Create POWER BI Models
- Create POWER BI REPORTS.

If there are three phases to developing a POWER BI project.

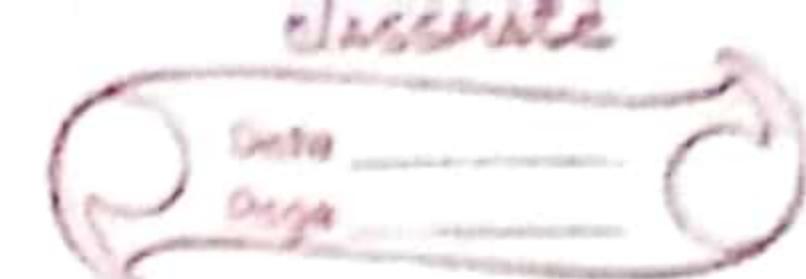
1. Author
2. Publish
3. Consume

Notes:

If you load the data (Excel Workbook) then open data and we go through Transform data (Edit) then automatically power Query Editor opened.

1. We can make a group or anything whatever we want in queries group so.

GET DATA - CLEAN UP MESSY DATA.



- In this section we can easily access the data through Power Query Editor. Power Query Editor is also called as Kitchen of Power BI.
- In this Power BI Query Editor then will be data called Budget so, we clean up messy data through the Tabs and Ribbon (Groups).
- Using Remove Rows are in Home section we can easily remove top 3 rows because there is only null values and we want to clean and make perfect data set.
- Now, we want to make first row as Header for understanding.
- Now, we have clear the total null sets so, go through the category options for clean total part (Null), there is one option name called Tent Filter if you click the Tent Filter then, then will open more option called Does NOT contain.
- Finally the data set is cleaned
- If we click APPLIED STEPS button then we should go to the back word it is also called time travel

GET DATA - Query Editor w/ Macros

- It makes your queries in this process of cleaning shaping and transforming your data ETL - documenting.
- In Macros we will be recording and editing:
(actually) we can find data in backlogs. We can delete steps, setting steps, removing any data so, also called Time travel.

GET DATA - CLEAN UP CONTINUED

- Finalized the data using much more power BI Editor tabs and ribbon (groups) with steps then we should be APPLY and CLOSE. It's connect the POWER BI DESKTOP then Refresh.

2:

RELATIONSHIPS - KEY CONCEPT

- A power BI relationship is a connection established between two tables, indicating how data in one table related to data in another.

→ There are similar to joining in SQL, merging in Power Query or using a vlookup in Excel with the benefit that they're dynamic and easy to keep track of.

Relationships - Creating Relationships

- tips

→ In this section we can easily create relationships with the lookup table.

Finally, we can easily create import, transform Data with the help of visualisation tools. In this section there will be data in FILTER, visualized way.

3.

DAX - WRITING DAX MEASURE / Implicit vs. Explicit Measures

Note:

→ In Power BI implicit vs explicit means, if I create bar charts or visualizations and drag the Sales field to the value area, Power BI automatically create a sum aggregation for the sales field which become a implicit measure.

→ Explicit measures in Power BI
are measures that are created
by the user using DAX formula.

So, if i choose one of both them
then, i choose Explicit measure
using DAX formula. Explicit
measure if you remove or add
the sales amount then, Explicit
is retained as always.

The 3 key reasons why Explicit
is so more powerful.

- 1. Control
2. Reuse
3. Impact on connected reports

→ Define

DAX - Calculated column.

→ we can simply add a new column and calculate with formula. we can add column name as in formula. It is easy way to calculated column using DAX formula.

Formula! .

→ That the name is given,
we should give name after

$$\text{Total Sales Amount} = \text{Sales}[\text{SALEAMT}] + \text{Sales}[\text{TAXAMT}]$$

What name should
I give when add a new
column name.

That a column name which two
columns added for calculation

DAX - MEASURED VS. CALCULATED COLUMN (key concept).

- One thing common both of them (Measured vs. Calculated Column) is that both use DAX expressions.
- A measured belongs to the whole Data model, while a calculated column belongs to a single table.

→ A measured P is evaluated P_n
 the filter content while, a calculated column P is evaluated P_n
 g row content (row by row), like
 is an excel table:

ROW CONTEXT → Row content is
 simply the knowledge
 of the current row when we
 calculate a column as Power BI
 is going through the values

NOTE:

MEASURED is not part of the table

That one more differences of calculated vs measured.

DAX - More MEASURES and MARGINS

$$\text{Variance} = [\text{Sales}] - [\text{Budget}]$$

$$\text{Variance\%} = \text{DIVIDE}([\text{Variance}], [\text{Budget}])$$

$$\text{Budget} = \text{SUM}([\text{Total Sales}]) + [\text{Budget Amount}]$$

Parameter
Non-Parametric Demand

finally take about
visualisation.

classmate

Date _____

Page _____

VISUALS - 80/20 RULE

- 80/20 Rules in visualization
is that 80 percent of your focus and effort as a power BI Author, power BI MODEL DEVELOPER.
- 80, 20 percent means if you clear concept about two of them power BI Author, and, power BI MODEL then, we should easily go through the visualization.
- Publish Report Dashboard.

What is the major difference between EXCEL and POWER BI.

→ EXCEL and POWER BI are both powerful tools for Data Analysis, but they serve different purposes and have distinct features.

→ I will describe 10 differences both of them.

01. [EXCEL]

→ ~~primarily~~

Data visualization and Business Intelligence focus

→ primarily a spreadsheet tool with basic charting and visualization capabilities.

[POWER BI]

→ Designed specifically for business intelligence and data visualization, providing more advanced and interactive visualizations.

02. [DATA MODELING AND RELATIONAL]

[EXCEL]

→ supports basic data modeling, but creating and managing relationships between tables

- can be more manual and less intuitive.

[POWER BI]

→ Offer a robust data modeling environment with easy to create relationships between tables, making it more suitable for complex data models.

OB: [DATA IMPORT AND TRANSFORMATION]

[EXCEL]

→ Data import and transformation are possible but can be more manual and less scalable for large datasets.

[POWER BI]

→ Power BI has advanced capabilities for data import, transformation and cleaning through Power Query, providing a more scalable and automated approach.

OB: [DATA REFRESH AND SCHEDULED UPDATES]

[EXCEL]

→ Data refresh is more manual and may require manual

INTERVENTION.

POWER BI

→ Allows for scheduled data refreshes, ensuring that reports and dashboards are automatically updated with the latest data.

05. [SHARING AND COLLABORATION]

EXCEL

→ Sharing can be done through file attachments, but collaboration features are limited.

POWER BI

→ Built for sharing and collaboration, with cloud-based sharing options and the ability to publish reports to the Power BI service for broader access.

06. [ROW - LEVEL SECURITY]

EXCEL

→ Limited support for row-level security.

POWER BI

→ provides robust row-level security features, allowing you to control access to data at a granular level based on user roles.

07. INTEGRATION WITH EXTERNAL DATA SOURCES**EXCEL**

→ can connect to various data sources but may require additional steps for complex integrations.

POWER BI

→ offers seamless integration with a wide range of external data sources, including databases, cloud services, and online services.

08. CUSTOM VISUALS AND MARKETPLACE**EXCEL**

→ visualization are somewhat limited, and there's no centralized marketplace for additional visual.

POWER BI

→ Has a market place for custom visuals, allowing users to access and integrate a wide range of additional visualisation created by the community.

09. [DATA STORYTELLING]

EXCEL

→ Limited capabilities for creating interactive and dynamic data stories.

POWER BI

→ It includes features for creating compelling data source stories with interactive elements making it easier to communicate insights.

10. [SCALABILITY]

EXCEL

→ While suitable for smaller datasets, it may struggle with handling large and complex datasets.

POWER BI

→ Engineered for scalability, making it more

efficient in handling large volumes of data and providing better performance in scenarios involving big data.