

Untitled - Power Query Editor

File 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 Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Text Merge Queries Append Queries Combine Files Combine AI Insights

Queries [1]

Budget

	AdventureWorks Budget Data	Column2	Column3	Column4	Column5	Column6
1	Prepared By: Johnny Bunko	null	null	null	null	
2	AdventureWorks Confidential	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	434	160	
8	Accessories	Fenders	Fender Set - Mountain	435	970	
9	Accessories	Helmets	Sport-100 Helmet, Red	212	5317	
10	Accessories	Hydration Packs	Hydration Pack - 70 oz.	47	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	61	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	6589	

This is for CLEAN UP MESSY DATA

Query Settings

Properties

Name: Budget

All Properties

Applied Steps

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

# Navigator

Display Options ▾

Search icon

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 Data category Uncategorized Sort by column Sort Data groups Groups Manage relationships Relationships New column Calculations

123 Data type Decimal number \$ % , .00 0

Structure Formatting Properties

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

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

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

Data

- Search
- Budget
- Calendar
- Customer
- Product
- Sales
  - CustomerKey
  - OrderDate
  - OrderQuantity
  - ProductKey
  - PromotionKey
  - SalesAmount
  - SalesOrderLineNumber
  - 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 Sources Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Manage

Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Replace Values

Data Type: Text Data Type: Date Data Type: Number Data Type: Boolean Data Type: Currency Data Type: Percentage Data Type: Time Data Type: Duration Data Type: Binary Data Type: Any Data Type: Any Column Data Type: Any Type

Merge Queries Append Queries Combine Files

Text Analytics Vision Azure Machine Learning

Close New Query Data Sources Parameters Query Manage Columns Manage Rows Reduce Rows Sort Transform

Queries [1]

Budget

= Table.SelectRows(#"Changed Type", each not Text.Contains([Category], "Total"))

	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, 26	310	345200
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	215	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

APPLIED STEPS

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

Name: Total Sales Format: General Data category: Uncategorized

Home table: Sales \$ % Auto

New measure Quick measure

Structure      Formatting      Properties      Calculations

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



This is the formula for measuring the SalesAmount and TaxAmt but this is not listed in Tables (THIS IS THE HUGE DIFFERENCE BETWEEN CALCULATED VS MEASURED)

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	SO43939	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
  - OrderQuantity
  - ProductKey
  - PromotionKey
  - SalesAmount
  - SalesLineNumber
  - SalesOrderNumber
  - SalesTerritoryKey
  - >  ShipDate
  - TaxAmt
  - Total Sales
  - Total Sales Amount
  - TotalProductCost

File Home Insert Modeling View Optimize Help

Cut Copy Format painter

Get data from workbook data hub

OneLake SQL Server Enter data Dataverse Recent sources

Transform Refresh data

New visual Text box More visuals

New measure measure Quick Sensitivity

Publish Copilot

Clipboard

Year Month Sum of Total Sales Amount Total Sales

Year	Month	Sum of Total Sales	Amount	Total Sales
2020	Jan	\$31,652,464	\$31,652,464	\$31,652,464
2020	Feb	\$31,652,464	\$31,652,464	\$31,652,464
2020	Mar	\$31,652,464	\$31,652,464	\$31,652,464
2020	Apr	\$31,652,464	\$31,652,464	\$31,652,464
2020	May	\$31,652,464	\$31,652,464	\$31,652,464
2020	Jun	\$31,652,464	\$31,652,464	\$31,652,464
2020	Jul	\$31,652,464	\$31,652,464	\$31,652,464
2020	Aug	\$31,652,464	\$31,652,464	\$31,652,464
2020	Sep	\$31,652,464	\$31,652,464	\$31,652,464
2020	Oct	\$31,652,464	\$31,652,464	\$31,652,464
2020	Nov	\$31,652,464	\$31,652,464	\$31,652,464
2020	Dec	\$31,652,464	\$31,652,464	\$31,652,464
2021	Jan	\$31,652,464	\$31,652,464	\$31,652,464
2021	Feb	\$31,652,464	\$31,652,464	\$31,652,464
2021	Mar	\$21,652,161	\$21,652,161	\$21,652,161
<b>Total</b>		<b>\$31,652,464</b>	<b>\$31,652,464</b>	<b>\$31,652,464</b>

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

Build visual

Filters

Customer

Product

Sales

- CustomerKey
- OrderDate
- $\sum$  OrderQuantity
- ProductKey
- $\sum$  PromotionKey
- $\sum$  SalesAmount
- $\sum$  SalesOrderLineNumber
- SalesOrderNumber
- SalesTerritoryKey

ShipDate

TaxAmt

Total Sales

Total Sales Amount

$\sum$  TotalProductCost

$\sum$  UnitPrice

Territories

Page 1

61%

Power BI Scratch

+ Create Publish app

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 ↑

LearnPowerBI

ACTIONS

OWNER

Scratch

INCLUDED IN APP

Showing 1 it

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.

File Home Insert Modeling View Optimize Help

Cut Copy Format painter

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

Transform Refresh data New visual Text box More visuals

New measure Quick Sensitivity Publish Copilot

Clipboard

Data

Queries

Insert Calculations Sensitivity Share Copilot

Sum of SalesAmount

Year	Sum of SalesAmount
2020	29,307,836.59
2021	29,307,836.59
2022	29,307,836.59
2023	29,307,836.59
<b>Total</b>	<b>29,307,836.59</b>

Sum of BudgetAmount

Year	Sum of BudgetAmount
2020	16869574
2021	16869574
2022	16869574
2023	16869574
<b>Total</b>	<b>16869574</b>

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

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Visualizations

Build visual

Search

FiscalQuarter

FiscalYear

Month

MonthLong

Σ MonthNum

MonthYear

MonthYearLong

Σ MonthYearNum

Quarter

Weekday

Σ WeekdayNum

WeekdayWee...

Σ Year

Customer

Product

Sales

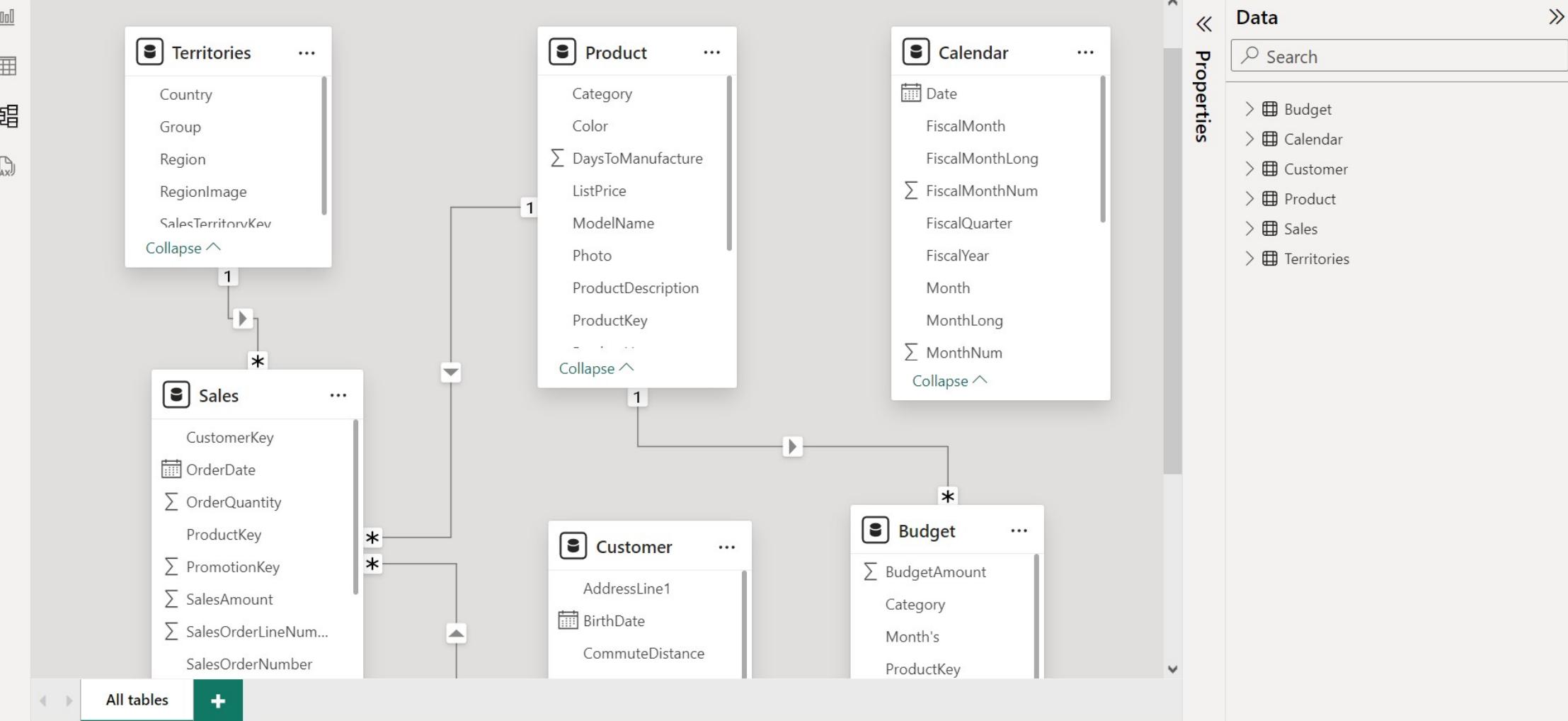
CustomerKey

OrderDate

Σ OrderQuantity

Page 1

File Home Help



Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

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

Close New Query Data Sources Parameters Query Manage Columns Manage Rows Reduce Rows Sort Transform

Queries [1] X ✓ fx

= Table.Skip(Budget\_Sheet,3)

Budget

	ABC 123 Column1	ABC 123 Column2	ABC 123 Column3	ABC 123 Column4	ABC 123 Column5	ABC 123 Column6
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	800
9	Accessories	Tires and Tubes	Patch Kit/8 Patches		480	3554
10	SubTotal Accessories		null		14499	
11	Bikes	Mountain Bikes	Mountain-100 Silver, 38		344	370105
12	Bikes	Road Bikes	Road-150 Red, 62		5295	
13	Bikes	Touring Bikes	Touring-2000 Blue, 60		560	133631
14	SubTotal Bikes		null		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		null		6589	
22	Grand Total		null		871119	

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

Query Settings

PROPERTIES

Name: Budget

APPLIED STEPS

Source: Navigation

Removed Top Rows

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 Advanced Editor Properties Manage Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Text Use First Row as Headers Merge Queries Append Queries Combine Files Text Analytics Vision Azure Machine Learning AI Insights

Close New Query Data Sources Parameters Query Manage Columns Reduce Rows Sort Transform Combine

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.	487	809	
11	Accessories	Tires and Tubes	Patch Kit/8 Patches	480	3554	
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14	Bikes	Road Bikes	Road-150 Red, 62	310	346295	
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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	
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21	Clothing	Socks	Mountain Bike Socks, M	218	24	
22	Clothing	Vests	Classic Vest, S	471	980	
23	SubTotal Clothing	null	null	null	6589	

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

Query Settings

PROPERTIES

Name: Budget

APPLIED STEPS

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

PREVIEW DOWNLOADED AT 8:37 PM

DAX-More Measures with different ways • Last saved: Today at 7:09 PM

File Home Insert Modeling View Optimize Help Format Data / Drill

Cut Copy Format painter Clipboard

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

Transform Refresh data New visual Text box More visuals

New measure Quick Sensitivity Publish Copilot

Sensitivity Share Copilot

Search

Sign in

Share

**Visualizations**

Build visual

**Data**

Search

**Filters**

Budget

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

Calendar

Customer

Product

Sales

- CustomerKey
- OrderDate
- $\sum$  OrderQuantity
- ProductKey
- PromotionKey

Year Month Total Sales Budg

Year	Month	Total Sales	Budg
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
<b>Total</b>		<b>\$31,652,464</b>	<b>\$16,8</b>

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

Month's

- Feb, 2016
- Jan, 2016
- Mar, 2016
- Apr, 2016
- May, 2016
- Jul, 2016
- Sep, 2016
- Aug, 2016
- Oct, 2016
- Jun, 2016
- Nov, 2016
- Dec, 2016

Legend

Month's

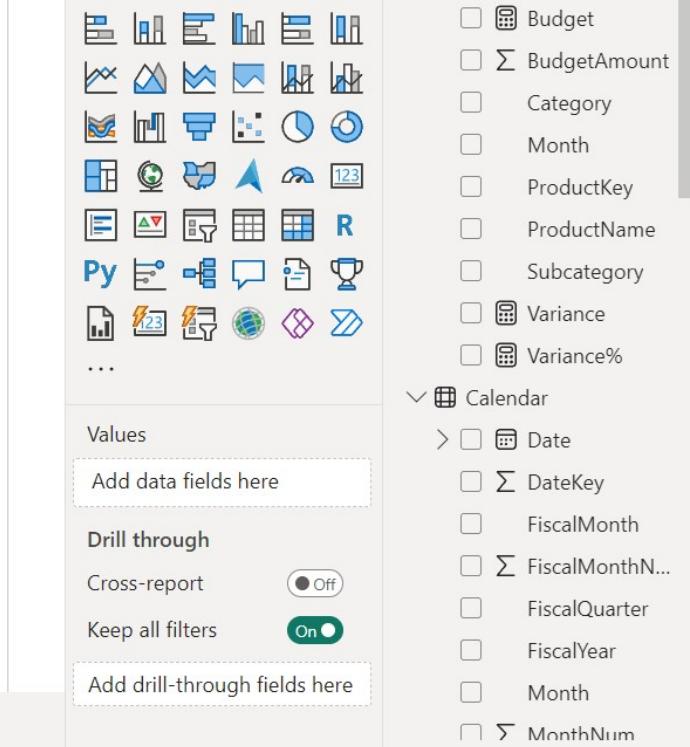
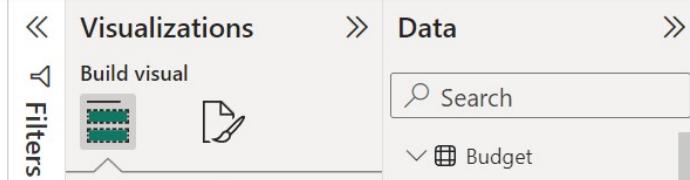
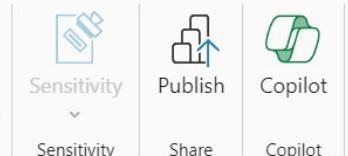
Values

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

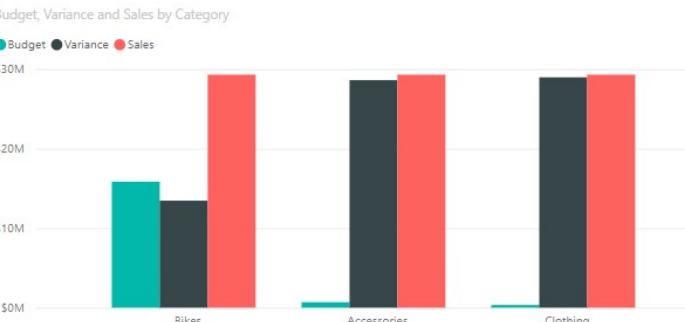
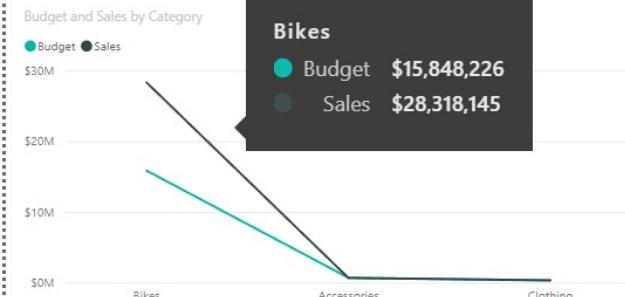
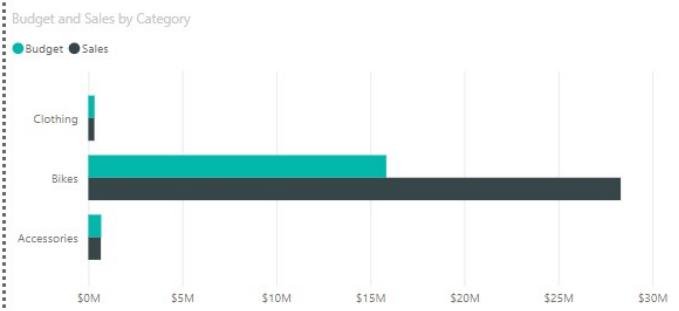
Page 1 +

Page 1 of 1

66%



# Unlimited Works



Year	Month	Sum of SalesAmount	Year	Month	Sum of BudgetAmount	Country	Sum of SalesAmount
2020	Jan	\$29,307,837	2020	Jan	\$16,869,574	Australia	\$9,051,766
2020	Feb	\$29,307,837	2020	Feb	\$16,869,574	Canada	\$1,966,991
2020	Mar	\$29,307,837	2020	Mar	\$16,869,574	France	\$2,640,526
2020	Apr	\$29,307,837	2020	Apr	\$16,869,574	Germany	\$2,890,708
2020	May	\$29,307,837	2020	May	\$16,869,574	United Kingdom	\$3,387,491
2020	Jun	\$29,307,837	2020	Jun	\$16,869,574	United States	\$9,370,355
2020	Jul	\$29,307,837	2020	Jul	\$16,869,574	Total	\$29,307,837
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		
<b>Total</b>		<b>\$29,307,837</b>	<b>Total</b>		<b>\$16,869,574</b>		

Final Analysing  
Multiples Data  
Together

## Filters

Search

Filters on this visual

Country  
is (All)Sum of SalesAmount  
is (All)

Add data fields here

Filters on this page

Year

is (All)

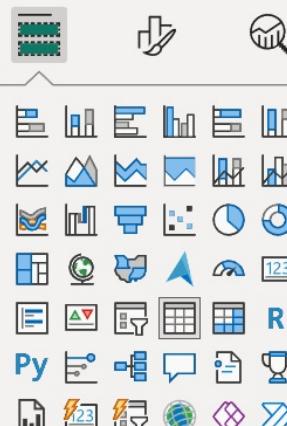
Filter type ⓘ

Basic filtering

 Select all 2020 366 2021 365 2022 365 2023 365

## Visualizations

Build visual



## Columns

Country	▼ X
Sum of SalesAmount	▼ X

## Drill through

Cross-report Keep all filters 

Add drill-through fields here

## Data

Search

Sales

- CustomerKey
- OrderDate
- ∑ OrderQuantity
- ProductKey
- ∑ PromotionKey
- ∑ SalesAmount
- ∑ SalesOrderLine...
- SalesOrderNu...
- SalesTerritory...

 ShipDate>  Date Hierar... ∑ TaxAmt ∑ TotalProductC... ∑ UnitPrice Territories Country Group Region RegionImage SalesTerritory...

:-

1

2

3

4

5

6

7

:-

# ROADMAP

classmate

Date \_\_\_\_\_

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## 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"

classmate

Date \_\_\_\_\_  
Page \_\_\_\_\_

## 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 - Creating Relationships

→ Relationships - Explore 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

## → DAX - Before and After Power BI

4.

→ Visuals - 80/20 Rule

→ Visuals - Text, 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 Dashboards ~~Others~~

→ POWER BI.COM - Sharing Dashboards with Others.

## POWER BI DESKTOP

→ Authoring Tool

→ Create POWER BI MODELS

→ Create POWER BI REPORTS.

# 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 also called as kitchen of Power BI.
- In this power BI query editor there will be data called Budget so, we clean up messy data through the tabs and ribbons (groups).
- Using Remove Rows 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 Text Filter if you click the Text Filter then there 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 ward it is also called time travel.

## GET DATA - Query Editor vs Macros

- It makes your queries in this process of cleaning shaping and transforming your data for documenting.
- In Macros we will be recording and editing:  
(actually) we can find data in backboards. We can delete steps, edit step, remove 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 relates to data in another.

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

## Relationships - creating Relationships

→ 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 tool. 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 is removed or added 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 array like

$$\text{Total Sales Amount} = \text{Sales}[\text{SaleIAmount}] + \text{Sales}[\text{TaxAmt}]$$

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 they 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<sub>n</sub>  
 the filter content while, a calculated column P is evaluated P<sub>n</sub> 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 B  
 is going through their values.

NOTE: MEASURED is not a part of the table

that one more differences of calculated -  
 based on measured.

## DAX - More MEASURES and MADS:

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

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

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

Parameter  
 Non-Parametric Data

Finally take about  
Visualization.

classmate

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3) 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.

②

→ 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]

→ ~~Data~~ Intelligence

[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.

03:

## [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 cleansing through Power Query, providing a more scalable and automated approach.

04:

## [DATA REFRESH AND SCHEDULED UPDATES]

### [EXCEL]

→ Data refresh is more manual and may require manual

## 5. INTERVENTION.

### **POWER BI**

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

## 6. 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.

## 7. 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 data bases, cloud services, and online services.

### 08. CUSTOM VISUALS AND MARKETPLACE

#### EXCEL

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

## [POWER BI]

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

## 9. [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.