

# **Power BI Getting Started for FP&A**

# What is Power BI?



Power BI is now the <u>undisputed market leader</u> in business intelligence (BI). It is one of the citizen tools in Microsoft Power Platform Offerings.

#### **Primary layers in Power BI**

- Get Data Power Query ETL (Extract, Transform and Load)
  - Connect to 100+ <u>sources</u> to bring and shape your data
- Data Modelling (Relationships) & Formula (DAX)
  - Build relationship between tables, no more VLOOKUP's or index/match
  - Excel-like formula capable of doing amazing things like time intelligence
- Visualizations
  - Dynamic canvas to develop interactive and dynamic presentation
- Sharing (Web, Teams, Mobile)
  - Designed for sharing on all platforms where you have internet
  - Dynamic security means you build one report for all regions and leadership
  - One version of Truth

User-friendly platform that enables stakeholders to self-serve reports and dashboards that is built by analysts and citizen developers

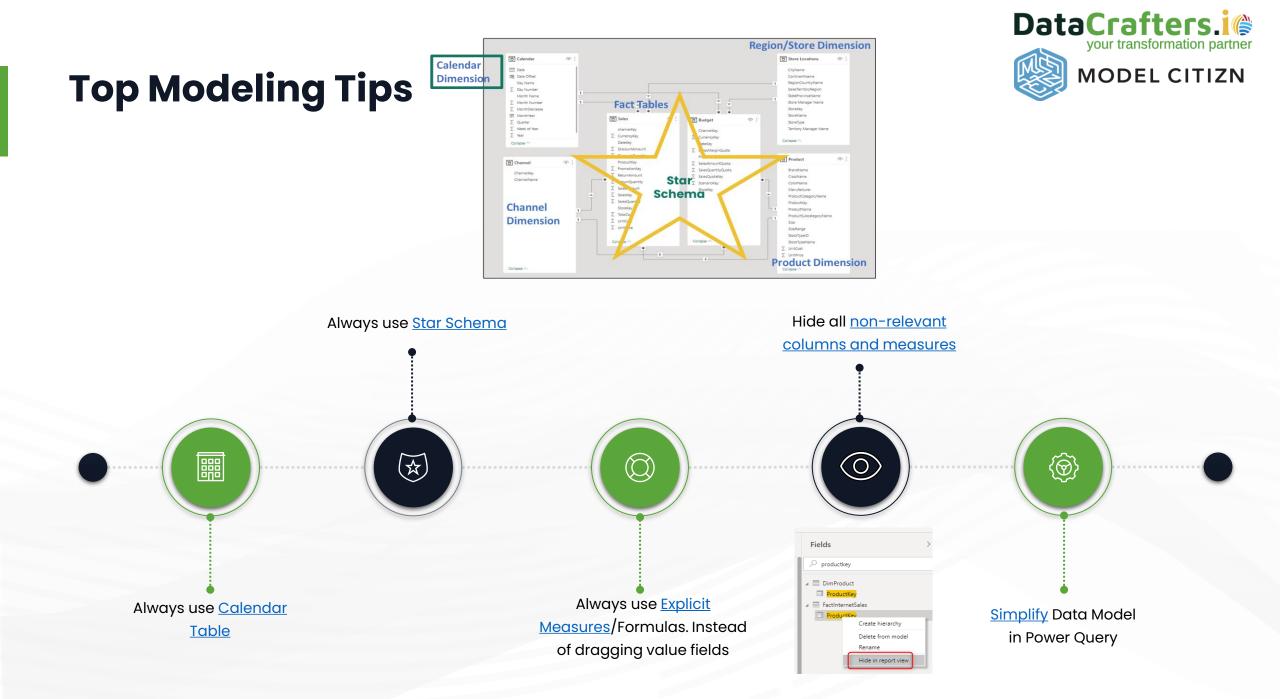




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		ty Begir	nner	Intermediate		Advanced	
Fundamentals of Success Data Prep/Power Query	Data source	compi	<b>al</b> burce data may be manually iled by the author, usually for g purposes.	The source	d to the source system e data is queried from er source system.	<b>Efficiency and optimization</b> Queries are optimized for efficiency, such as query folding when querying the source system.	
Action • Start Today					et is scheduled in the Service, so it refreshes	Incremental refresh The dataset refresh operation is optimized for incremental data refresh.	
		Activity	Beginner		Intermediate	Advanced	
Iterate • Small Wins		Table Structure	Flat Table Remarkably similar to PivotTable Data in Excel, where you used lookups in the source (Most likely Excel or current source).		<b>Dimensional</b> <b>Relationship</b> Fact-Dimension, Star Schema, Calendar Table.	<b>Optimized Storage &amp; Relationship</b> Wide and Short Dimension Table & Skinny and long Fact Table Read More	
Data Modelling/DAX		DAX	Basic Measures Get started with drag and drop highly recommend writing Exp Measures. Read More Sales = 1 'Invoice Data'[Revenue])	olicit	Calculate/ Time Intelligence Function: Calculate/Filter, Time Intelligence (DateAdd, DatesYTD) Introduction to X Functions, Filter Context etc.	Incremental refresh DAX/Measure Optimization, unlocking the power of Calculate/Filter/Iteration/Table Functions, Composite Models External Tools 1) DAX Studio 2) Tabular Editor 3) Bravo	
		Activi	ty Beginner		Intermediate	Advanced	
Data Visualization	-	Technie	cal Follow K.I.S.S method Simple Tables/Matrix and Let the interactivity of Por along with Drill Down do magic, just getting what y replicated.	wer BI the /ou have	Move beyond The Grid Drill Through, Information canvas, attention direction flow, information positioning, color contrast, conditiona formatting.	visuals (Inforiver, Zebra BI). Every Custom Visual has its own learning curve.	

**<u>Full Article Link</u> – A detailed step-by-step guide to mastering Power BI** 





# **Top Visualization Tips**

KISS = Keep It Simple S.....



**Click to see live** 

# Data Analysis Expression (DAX 101)

**Description** – describes the DAX in the below Total Revenue **Syntax** – formula structure with the *DAX function* upfront uppercase and p*arameters and filter contexts* – bits in the middle

#### Total Revenue =

#### CALCULATE ( SUM ( 'Profit Loss Data'[Amount] ),

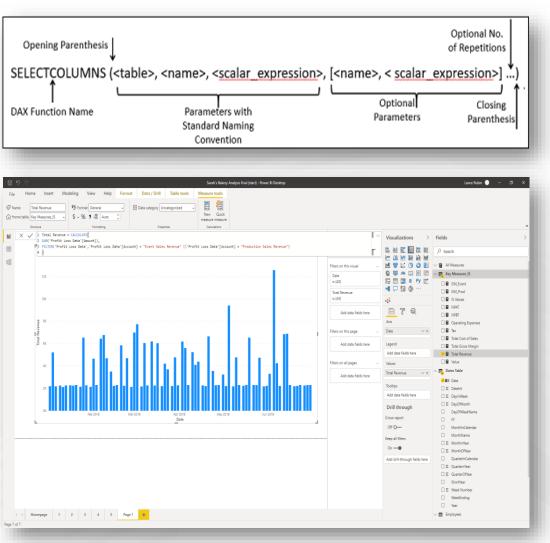
#### FILTER (

'Profit Loss Data',
'Profit Loss Data'[Account] = "Event Sales Revenue"
|| 'Profit Loss Data'[Account] = "Production Sales Revenue"

#### In English this means:

We are calculating Total Revenue on the basis of :

- SUM of all the Profit Loss Data with a
- particular table and data reference being the "Amount" column,
- particular Filter context which is the "Accounts" namely where these are equal to "Event Sales Revenue" and "Product Sales Revenue"





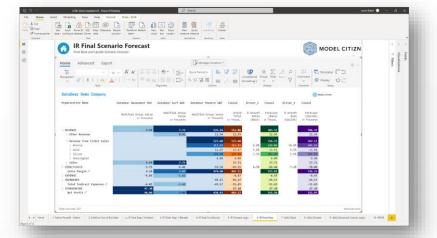
### Power BI Advanced Tools For Finance & Accounting



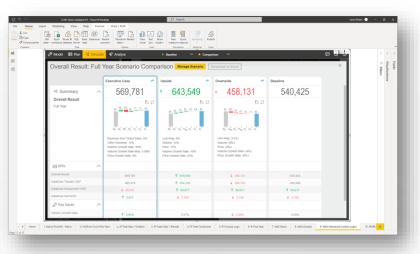












X Cut D) Copy Somet painter Cipecent		storm Refresh ra- Queries insert	Aare New Quic measure measure Calculations								
	ValQ (Advanced Cu		MODEL CITIZN	<ul> <li>✓ Visualizati</li> <li>✓ 7 Filters</li> </ul>							
	Ø Model ■ Plan -\$ Simulate 🗜 Acalyze 🛛 🕫 🔿 🗇										
	Compare Bealine v With Bealine Decubiv Case v Jan Q. Samo										
			Periodic (Jan)			Full Year (Jan-Dec)					
		Executive Case	Baseline	Baseline Var	Executive Case	Baseline	Baseline Var				
	Overall Result.	347,933	332.234	15.699	569.781	540.425	29.355				
	<ul> <li>DataDear Theatre G8P</li> </ul>	263,532	242,805	20,727	485,379	450,996	34,383				
		400,085	427.510	(27,425)	596,410	635.701	(39,291)				
	E OVERHEADS	(76,161)	(82,784)	6.623	(76,161)	(82,784)	6.623				
	DIRECTOOSTS	(90,710)	(101.921)	11,211	(90,710)	(101.921)	11,211				
	DataDear Amusement USD	80,531	85,671	(5.140)	80,531	85,671	(5.140)				
	OTHERINCOME	86.795	86.795		86.795	86.795					
	REVENUE	18.326	18.326		10.326	18.326					
	⊕ DPENSE	(8.904)	(8.904)		(3.904)	(8.904)					
		(10,546)	(10,546)		(10,546)	(10,546)					
	DataDear Surf AUD	3,871	3.758	113	3,871	3,758	113				
	Ⅲ REVENUE	14,106	14.186		14,106	14,106					
		(2,973)	(2:973)		(2.973)	(2.973)					
			(7.455)		(7.455)	(7.455)					



# **Additional Resources**

YouTube Channels:



For Power BI PL-300 Certifications Free Resource flow this article: Power BI Free Learning Path

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