



# Power BI Fundamentals

*Private Workshop Presented by SkyPoint Cloud*

This isn't some ordinary Power BI training. When you train with us, you learn real-world techniques, gain in-demand skills, and experience a magical transformation that drives adoption success.

Learning Power BI with SkyPoint is an unrivaled learning experience that combines consulting and pragmatic training.

We're not just your trainer, we're your strategic partner.



Bring People and Data **Together**



# Power BI Fundamentals Agenda



This is a rigorous 1-day or 2-day training course for aspiring report developers and data professionals seeking to hone their skills in Power BI.

The course is designed to walk you through each important capability of Power BI and provide you sample situations to practice your skills. The goal is to build "muscle-memory" for Power BI best practices on report creation and data transformations.

## Day One – Basic Report Building

- Introduction to Power BI development stages
- Introduction to data visualization best practices
- Building a chart driven report using best practices
- Building a table-driven report with conditional formatting and drill through
- Introduction to publishing
- Data wrangling primer (extract, clean, and load two Excel tables)
- Q&A

## Day Two – Data Wrangling and Modeling

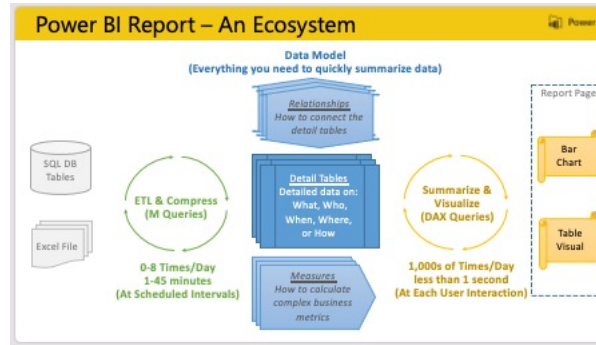
- Review of Power BI development stages
- Accessing Data Sources (Excel sheets/named-ranges, CSV files, and folders of workbooks)
- Basic transformations of data sources (date/text parsing, filtering, pivoting)
- Intermediate transformation of data sources (joining, appending, and data structures)
- Introduction to dimensional modeling
- Setting relationships and building simple DAX measures
- Q&A



# Power BI Fundamentals Day 1 Content Preview

## "Power BI Day 1: The Rise of the Query"

Brian Grant  
SkyPoint Cloud



### Composition Basics

3 Element Types

- Subject (Primary)
- Background (Secondary)
- Administrative (Tertiary)

### Summary Queries: Faster than a Speeding Bullet

Each Data Visual is driven by a Summary Query that summarizes data in the data model

Clicking on a Slicer triggers new Summary Queries to be written and executed (to take slicing into account)

### ETL: Getting Your Data, Today and Tomorrow

Go to "Desktop/Data"  
Read "My Report Data.XLSX"  
Extract "Products" worksheet  
Remove Row 2  
Fix UPPERCASE of columns:  
Product Name  
Class  
Type  
Send to Power BI compressor  
Compress & Load

"Products" Query

"Get Data" Queries tell Power BI how to get, clean, and load your data...



# Power BI Fundamentals Day 2 Content Preview

## "Power BI Day 2: The Fall of the Free Coffee"

Brian Grant  
SkyPoint Cloud



## Columns, Calculated Columns, and Measures

### Measures vs Calculated Columns

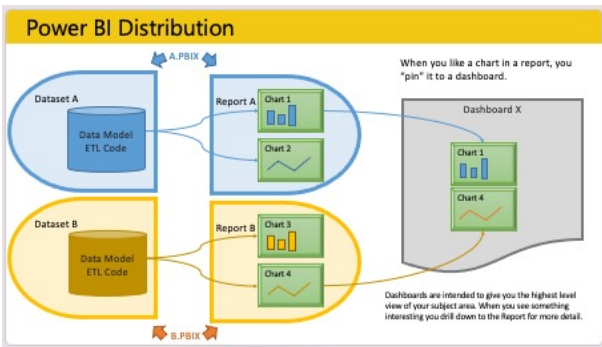
I start with a simple table that looks like this:

Name	State	City	Margin \$	Sales \$
Pacific States Sales	OR	Portland	\$1,761,478	27,279,000
Pacific States Sales	OR	Portland	\$4,499,249	\$8,051,000
Pacific States	OR	Portland	\$6,260,727	\$35,330,000
Mountain West	OR	Beaverton	\$2,123,761	\$3,648,000
Mountain West	WA	Vancouver	\$1,275,241	\$3,008,000
Central	WA	Seattle	\$4,158,817	\$8,819,000

Then I add both a Measure for Margin % and a Calculated Column for Margin %

When I'm done the table looks like this:

Name	State	City	Margin \$	Sales \$	Margin % Calc Col
Pacific States Sales	OR	Portland	\$1,761,478	27,279,000	6.42%
Pacific States Sales	OR	Portland	\$4,499,249	\$8,051,000	55.88%
Pacific States	OR	Portland	\$6,260,727	\$35,330,000	17.44%
Mountain West	OR	Beaverton	\$2,123,761	\$3,648,000	58.24%
Mountain West	WA	Vancouver	\$1,275,241	\$3,008,000	42.39%
Central	WA	Seattle	\$4,158,817	\$8,819,000	47.17%



### What Can You Do With Different Column Types?

Assume this is our data...

Name	State	City	Margin \$	Sales \$
Pacific States Sales	OR	Portland	\$1,761,478	27,279,000
Pacific States Sales	OR	Portland	\$4,499,249	\$8,051,000
Pacific States	OR	Portland	\$6,260,727	\$35,330,000
Mountain West	OR	Beaverton	\$2,123,761	\$3,648,000
Mountain West	WA	Vancouver	\$1,275,241	\$3,008,000
Central	WA	Seattle	\$4,158,817	\$8,819,000

...and I drag in State, City, Margin \$, and Sales \$

What did Power BI do with the values of the Text Columns?  
How about the values of the Numeric Columns?



# Our Lead Instructor

## Make Everyone a Citizen Developer & Achieve Rapid Transformation

This isn't some ordinary training. When you train with us, you learn real-world techniques, gain in-demand skills, and experience a magical transformation that drives adoption success.



### Meet Our Lead Instructor

**Brian Grant** is a masterful Senior Analytics Consultant by day, and a Power BI legend by night.

He teaches visualization that is focused on simplicity and understandability of the right measures, paired with a clean compositional layout



### Dashboard in a Day

A hands-on 1-day workshop covering the full spectrum capabilities of Power BI and the Power BI service. [Learn More](#)



### Power BI Fundamentals

A rigorous 1-day or 2-day training course for aspiring report developers and data professionals. [Learn More](#)



### DAX Fundamentals

A 1-day instructor-led class to develop a foundational set of skills in the DAX querying language. [Learn More](#)

See more of Brian's training content on our [blog](#) and [YouTube channel](#).