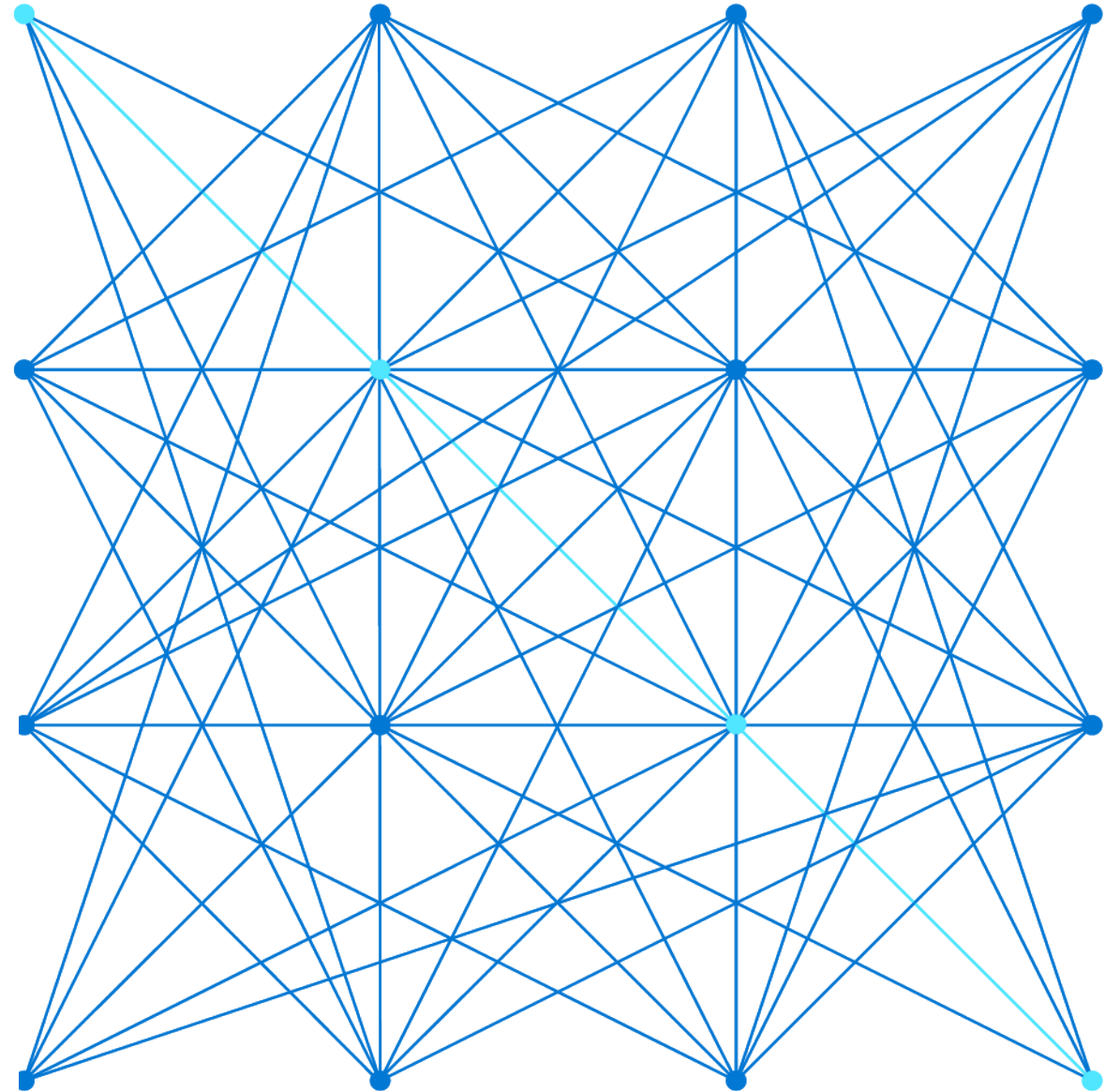


# DA-100 Analyzing Data with Power BI 1

Prof. Ernesto Lee



# **Module 1: Getting Started with Microsoft Data Analytics**

# Learning Objectives

You will learn the following concepts:

- Data Analysis
- Getting Started with Power BI



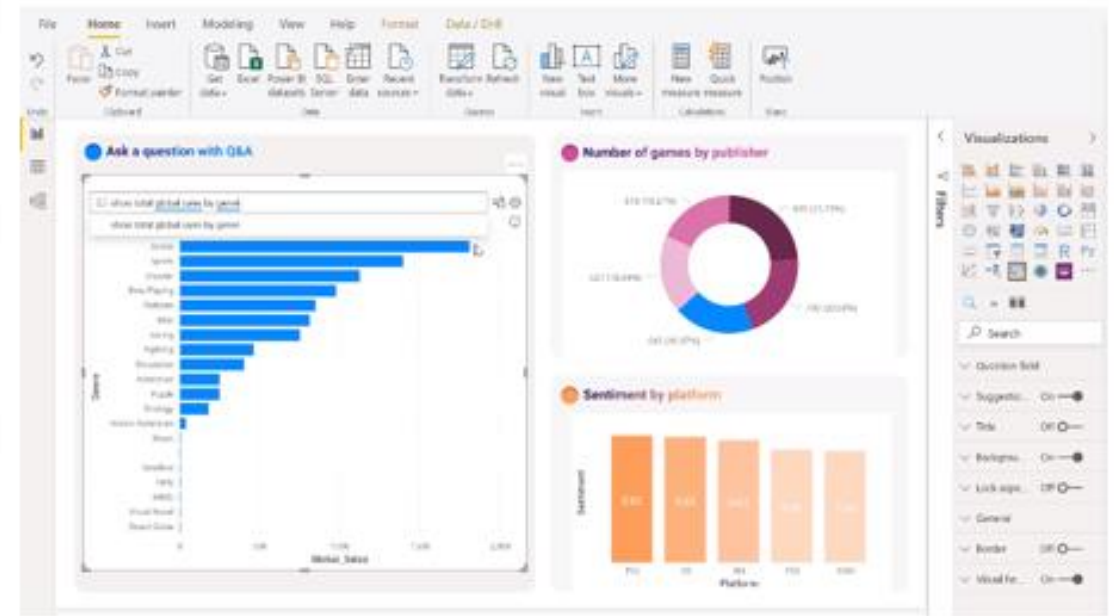


# Lesson 1: Data Analytics and Microsoft



# Introduction

Data and information is the most strategic business asset.



# Overview of Data Analysis

Data Analysis is telling a story with data.

Five categories of analytics:

- Descriptive
- Diagnostic
- Predictive
- Prescriptive
- Cognitive



# Roles in Data



Business Analyst



Data Analyst



Data Engineer

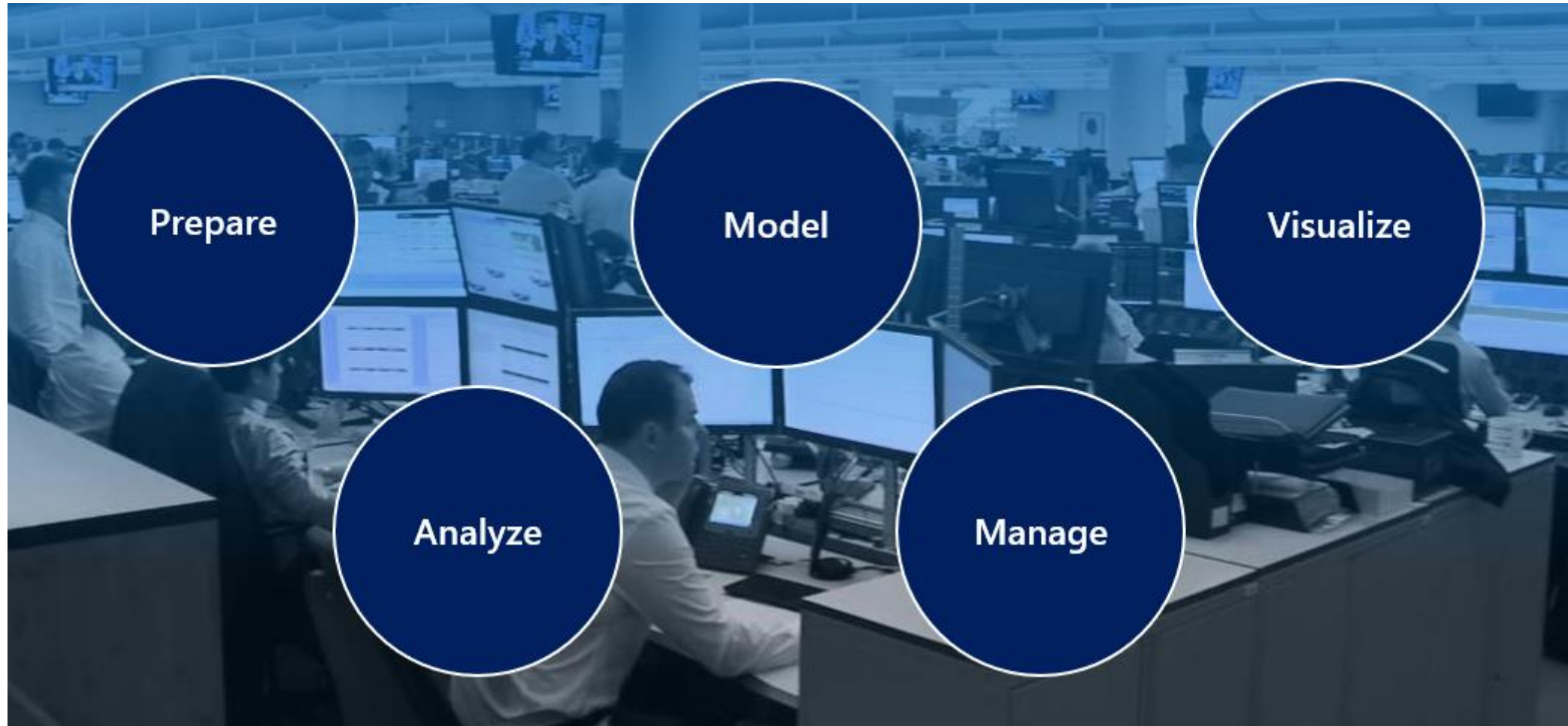


Data Scientist



Database  
Administrator

# Tasks of a Data Analyst



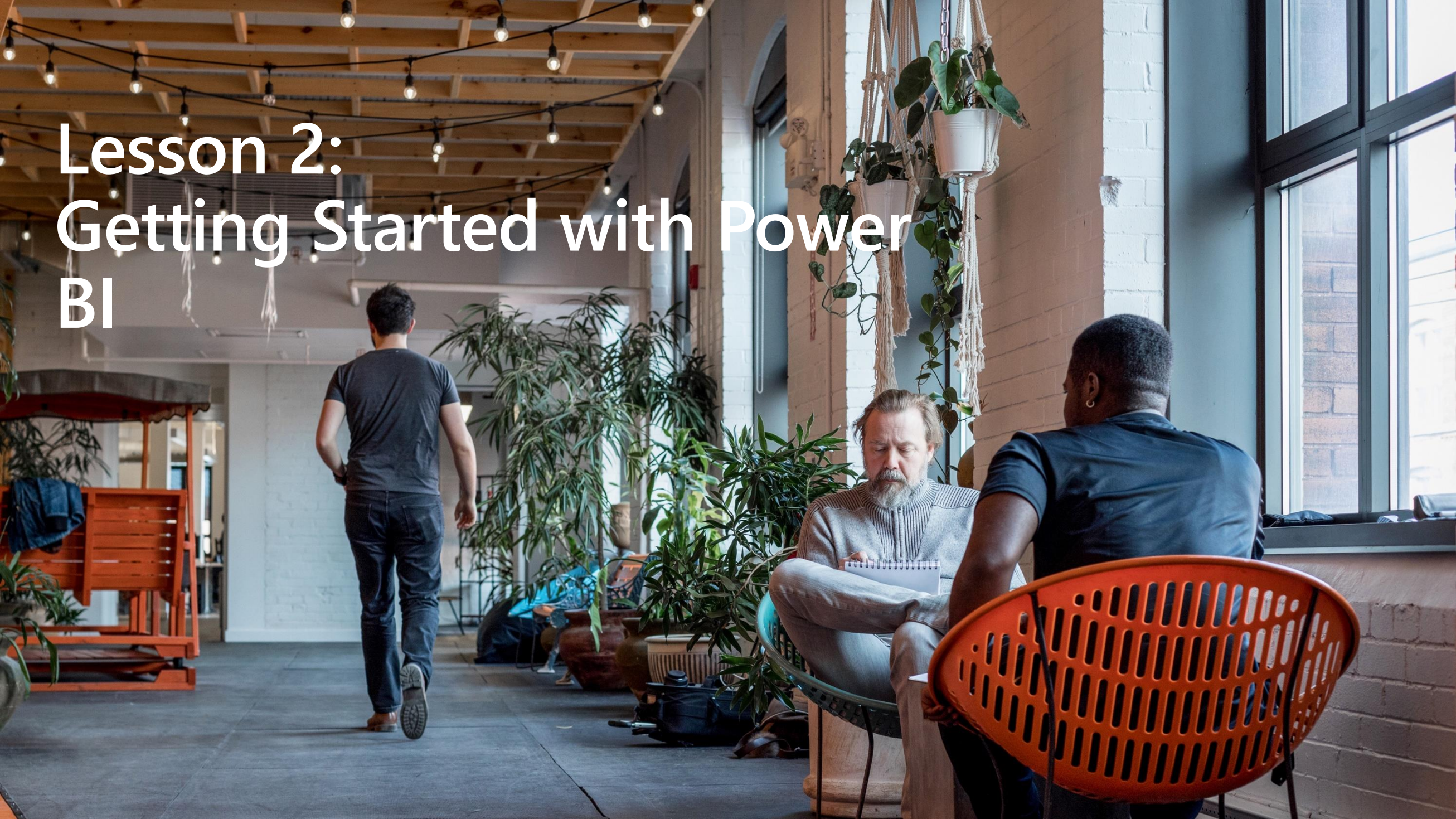


# Review Questions

- Q01 – Which data role enables advanced analytics capabilities through reports and visualizations?
- A01 – Data Analyst
- Q02 – Which data analyst task has critical performance impact on reporting and data analysis?
- A02 – Model
- Q03 – What is a key benefit of data analysis?
- A03 – Informed business decisions.



# Lesson 2: Getting Started with Power BI





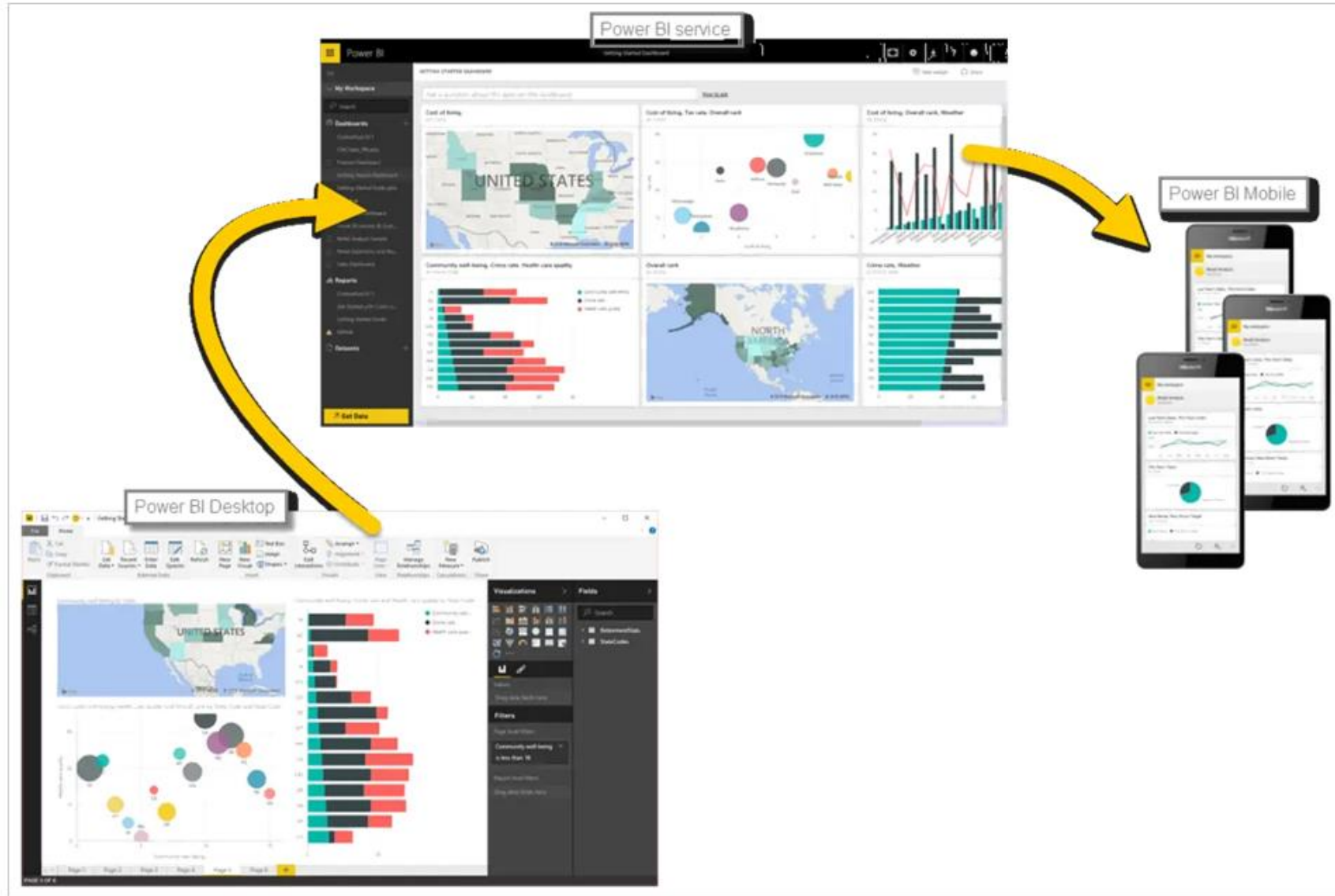
# Introduction to Power BI

Power BI: A collection of software, services, apps, and connectors.

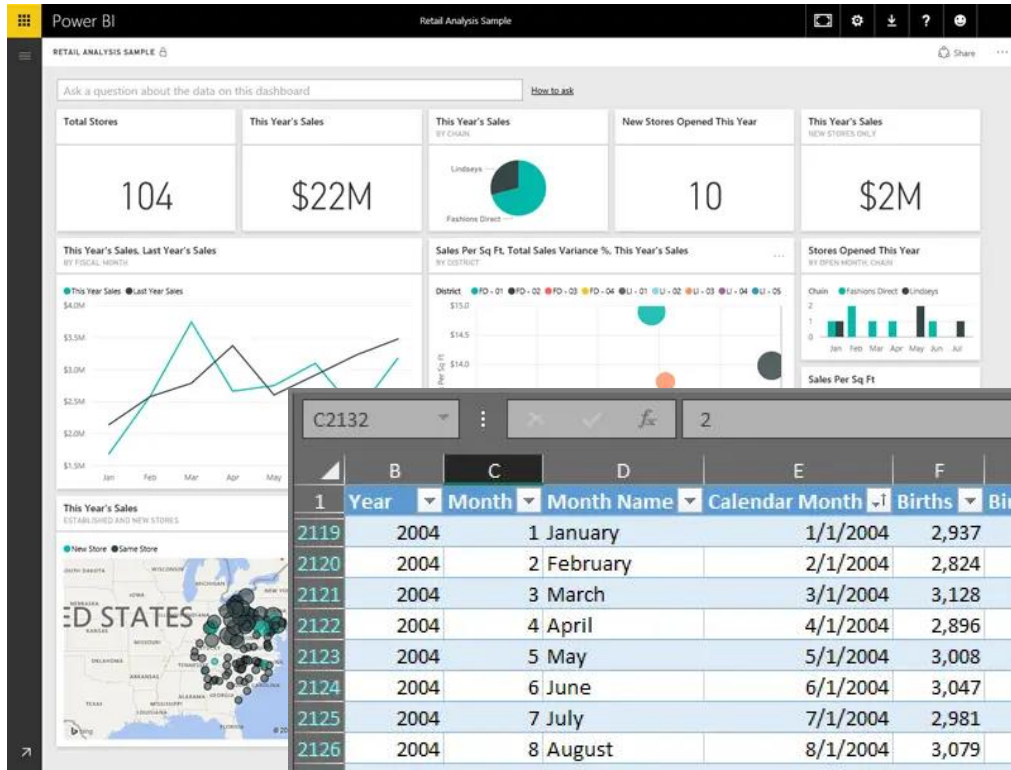




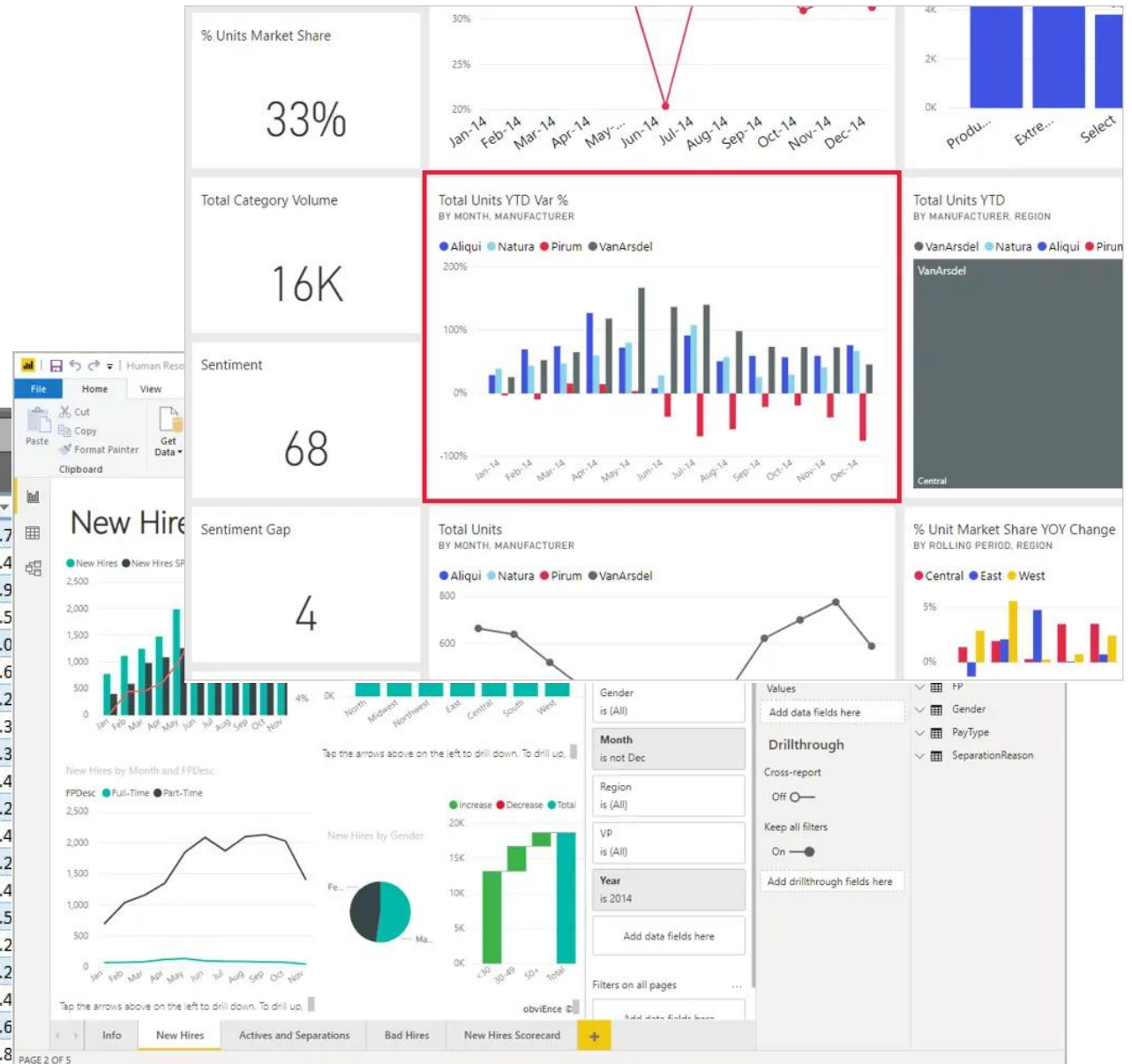
# Use Power BI



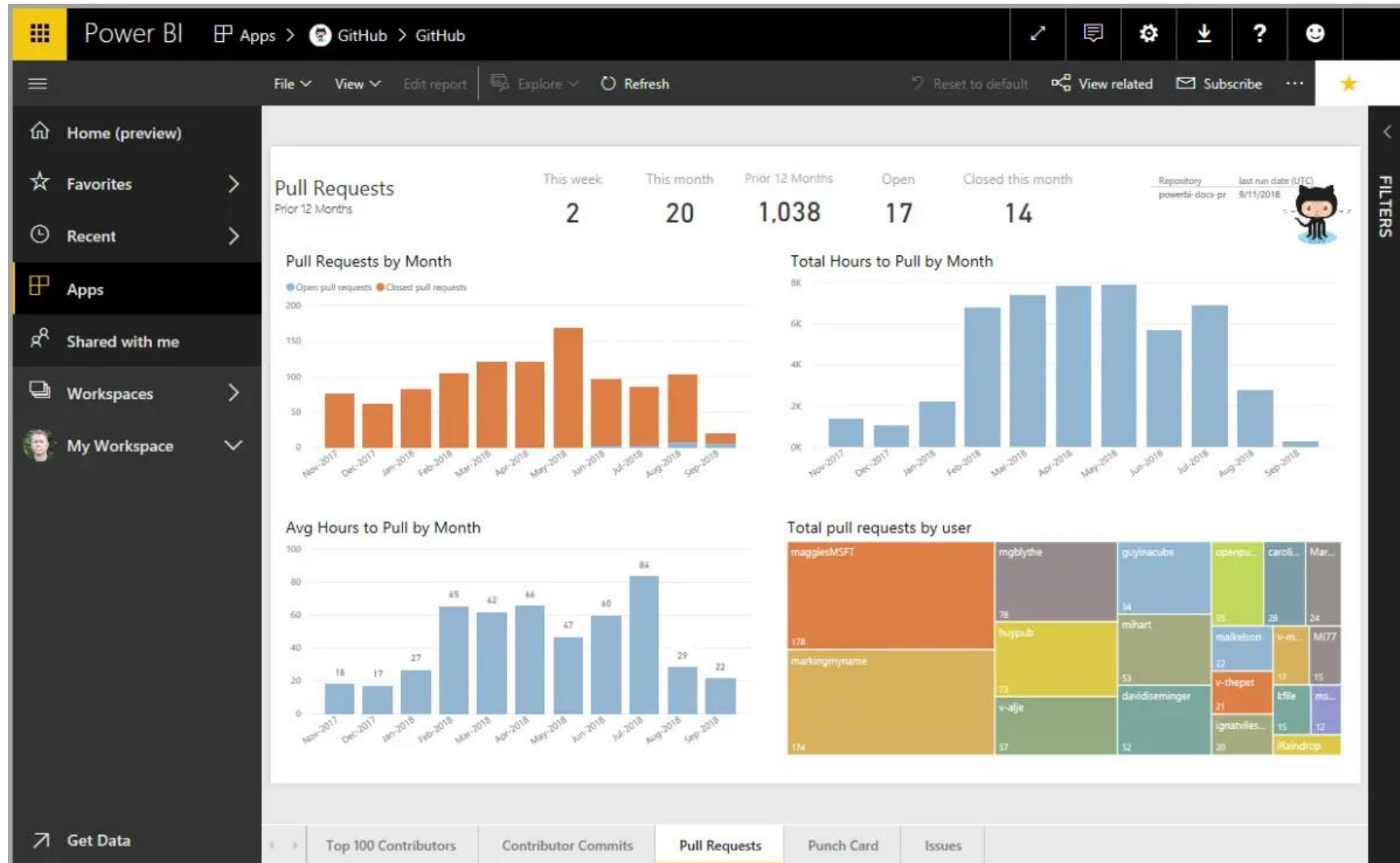
# Building Blocks of Power BI



	B	C	D	E	F	G
1	Year	Month	Month Name	Calendar Month	Births	Births Per Day
2119	2004	1	January	1/1/2004	2,937	94.7
2120	2004	2	February	2/1/2004	2,824	97.4
2121	2004	3	March	3/1/2004	3,128	100.9
2122	2004	4	April	4/1/2004	2,896	96.5
2123	2004	5	May	5/1/2004	3,008	97.0
2124	2004	6	June	6/1/2004	3,047	101.6
2125	2004	7	July	7/1/2004	2,981	96.2
2126	2004	8	August	8/1/2004	3,079	99.3
2127	2004	9	September	9/1/2004	3,219	107.3
2128	2004	10	October	10/1/2004	3,547	114.4
2129	2004	11	November	11/1/2004	3,365	112.2
2130	2004	12	December	12/1/2004	3,143	101.4
2131	2005	1	January	1/1/2005	2,921	94.2
2132	2005	2	February	2/1/2005	2,699	96.4
2133	2005	3	March	3/1/2005	3,024	97.5
2134	2005	4	April	4/1/2005	3,037	101.2
2135	2005	5	May	5/1/2005	3,231	104.2
2136	2005	6	June	6/1/2005	3,163	105.4
2137	2005	7	July	7/1/2005	3,119	100.6
2138	2005	8	August	8/1/2005	3,156	101.8
2139	2005	9	September	9/1/2005	3,439	114.6



# Touring and Using Power BI





# Review Questions

- Q01 – What are the building blocks of Power BI?
- A01 – Visualizations, Datasets, Reports, Dashboards, and Tiles
- Q02 – What is the common flow of activity in Power BI?
- A02 – Bring data into Power BI Desktop and create a report, share it to the Power BI service, view and interact with reports and dashboards.
- Q03 – A collection of ready-made visuals, pre-arranged in dashboards and reports is called what?
- A03 – An App

# Module Overview

We covered the following concepts:

- Data Analysis
- How to get started with Power BI

# References

- DA-100 Discover data analysis  
<https://docs.microsoft.com/en-us/learn/modules/data-analytics-microsoft/>
- DA-100 Get started building with Power BI  
<https://docs.microsoft.com/en-us/learn/modules/get-started-with-power-bi/>

