

Power BI for Project Management



By Abdul Shakoor, CMA (USA), FFA (UK)



LEXICON
School of Business
and Finance

0303 4565764
info@lexicon.edu.pk

What is Business Intelligence?

Business Intelligence

Using Data to make

***“SMART & INFORMED
DECISIONS”***



Business Intelligence

you will gain?



Make Smart & Informed Decisions

How to use data to make informed and smart decisions.

Having Control of your business

Have a quick view of your entire business in a report or dashboard to make a better control.

Tell a story using Data

Tell a story from your data using report and dashboard.

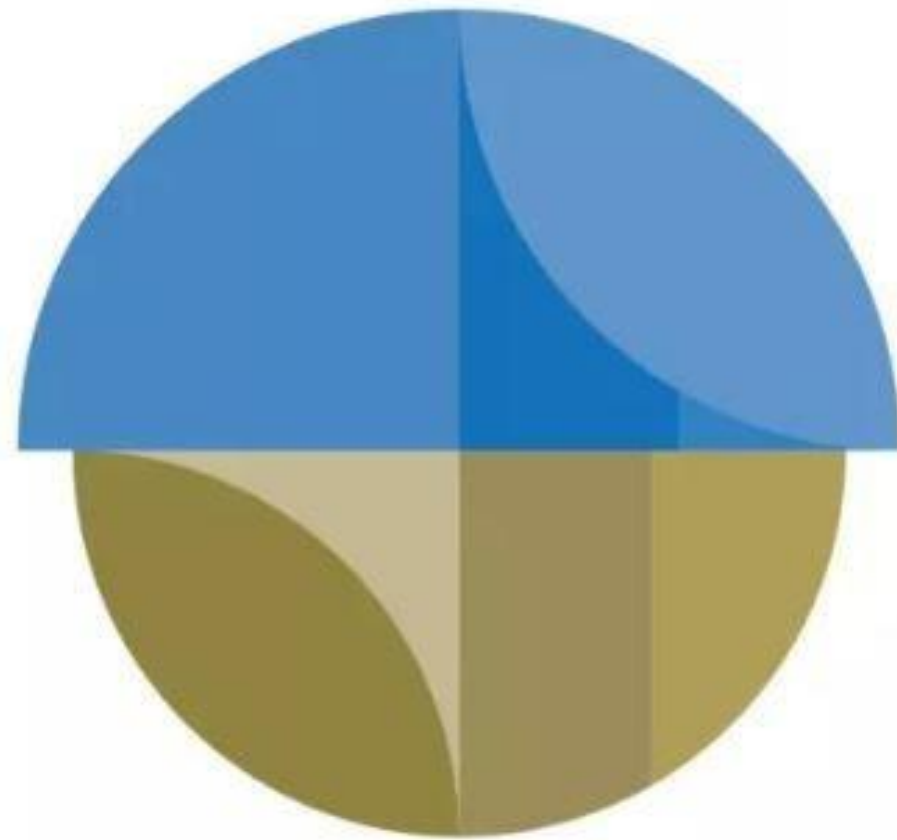
Why you Should Learn BI

1. Better control of your project
2. Reduce in-efficiencies
3. Better allocation of resources
4. Career Growth
5. Stay ahead of the curve
6. Make an Impact

Job landscape

By 2025, new jobs will emerge and others will be displaced by a shift in the division of labour between humans and machines, affecting:

97 million



85 million

Growing job demand:

1. Data Analysts and Scientists
2. AI and Machine Learning Specialists
3. Big Data Specialists
4. Digital Marketing and Strategy Specialists
5. Process Automation Specialists
6. Business Development Professionals
7. Digital Transformation Specialists
8. Information Security Analysts
9. Software and Applications Developers
10. Internet of Things Specialists

Decreasing job demand:

1. Data Entry Clerks
2. Administrative and Executive Secretaries
3. Accounting, Bookkeeping and Payroll Clerks
4. Accountants and Auditors
5. Assembly and Factory Workers
6. Business Services and Administration Managers
7. Client Information and Customer Service Workers
8. General and Operations Managers
9. Mechanics and Machinery Repairers
10. Material-Recording and Stock-Keeping Clerks



Source: Future of Jobs Report 2020, World Economic Forum.

Why Microsoft Power BI?

2022 Gartner® Magic Quadrant™ for Analytics and Business Intelligence Platforms

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



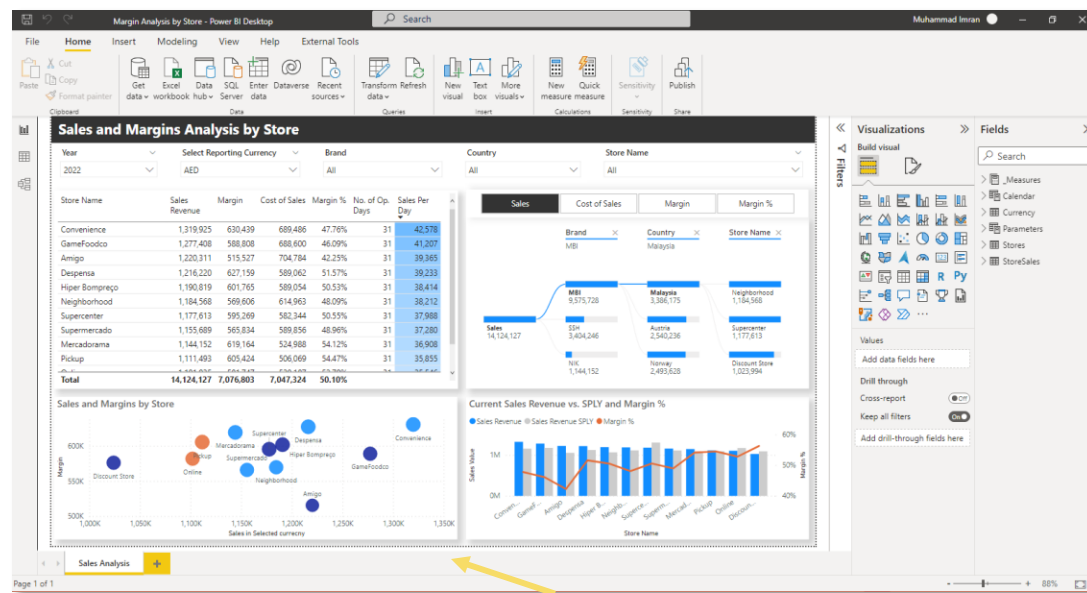
<https://info.microsoft.com/ww-landing-2022-gartner-mq-report-on-bi-and-analytics-platforms.html?lcid=en-us>

Source: Gartner (March 2022)

Power BI Major Components



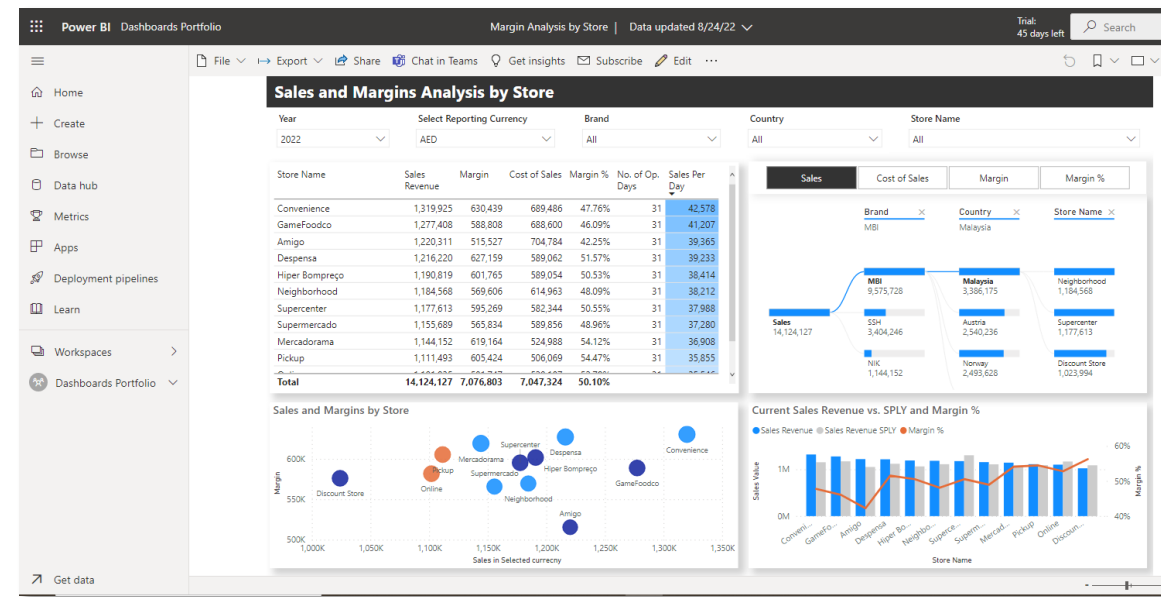
Power BI Desktop



Only available on Windows

- Power Query (*Get & transform*)
- Power Pivot (*Data Modeling*)
- Power View (*Data Visualization*)
- Power Map (*Geo-spatial data visualization*)
- DAX (*Data Analysis Expressions*)
- Power Q&A (*Natural language Q & A*)

Power BI Service



Web based application

- Sharing and Collaboration
- Scheduling data refresh
- Setting up alerts
- Creating "Dashboards"
- Power BI Administration

Power BI Mobile app



Available for both android and iOS

- Viewing and consumption

BI Workflow



Tagging, sensors,
manual entry etc.

Power Query &
Data Modeling

Data Analysis
Expressions (DAX)

Power BI desktop, web
service and mobile app

Connecting & Transforming

- Connect Data using multiple data Connectors.
- Consolidating
- Cleaning Messy Data
- Making data ready for Data Analysis

Data Modeling & Analyze

- Creating relationship with multiple data sources
- Analyze data using DAX
- Creating Measures
- Implicit and Explicit Measures
- Add Calculated columns
- Time Intelligence Features

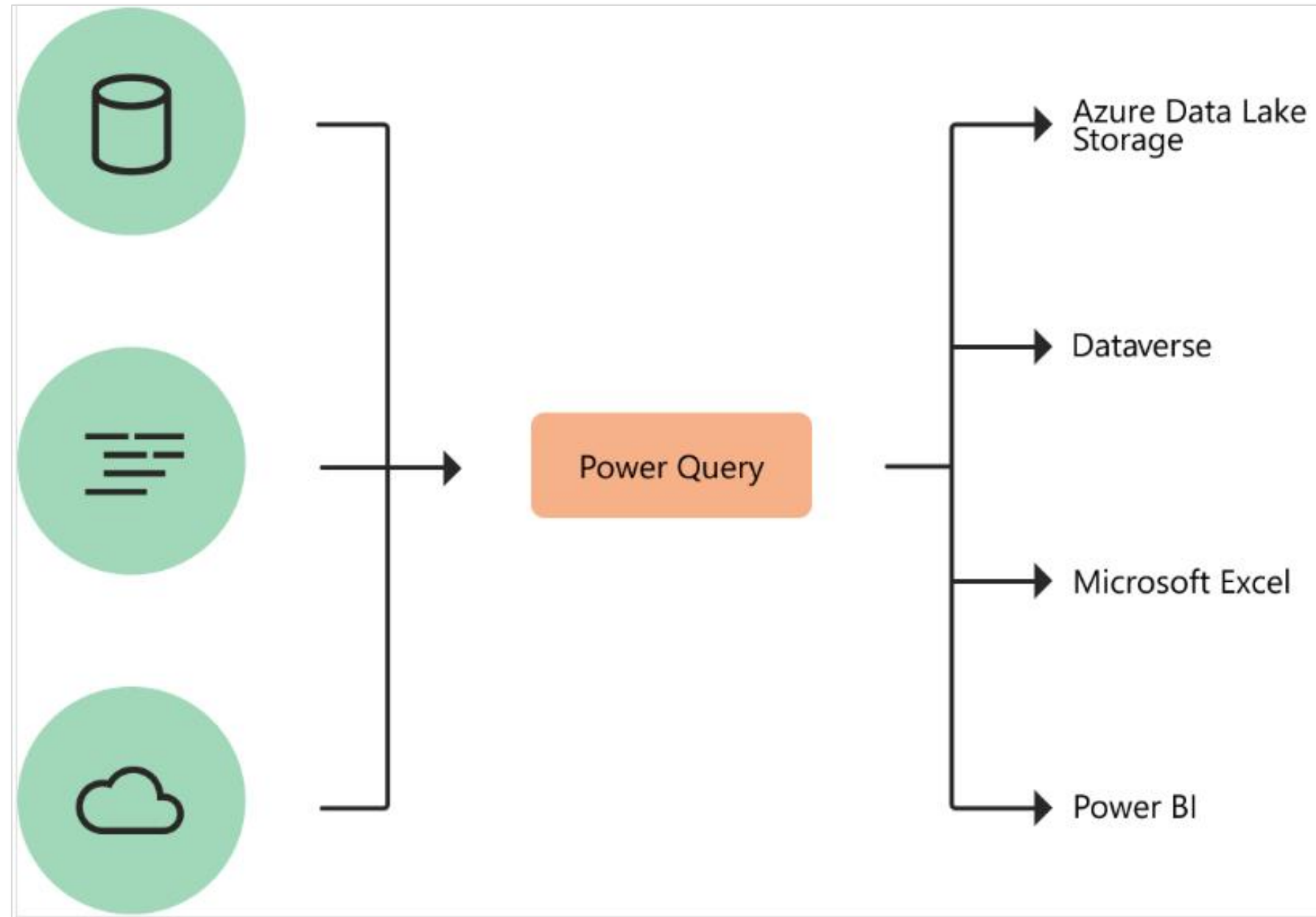
Visualization

- Creating Powerful dashboards
- Artificial Intelligence (AI) Visuals & Features
- Integrated reports
- Making informed decisions using insights
- Data story telling

Power Query

Power Query

Extract,
Transform,
Load
(ETL)



Power Query user experience is provided through the Power Query Editor user interface

Data Connectors

Get Data

All

File

Database

Microsoft Fabric
(Preview)

















Power Platform

Azure

Online Services

Other

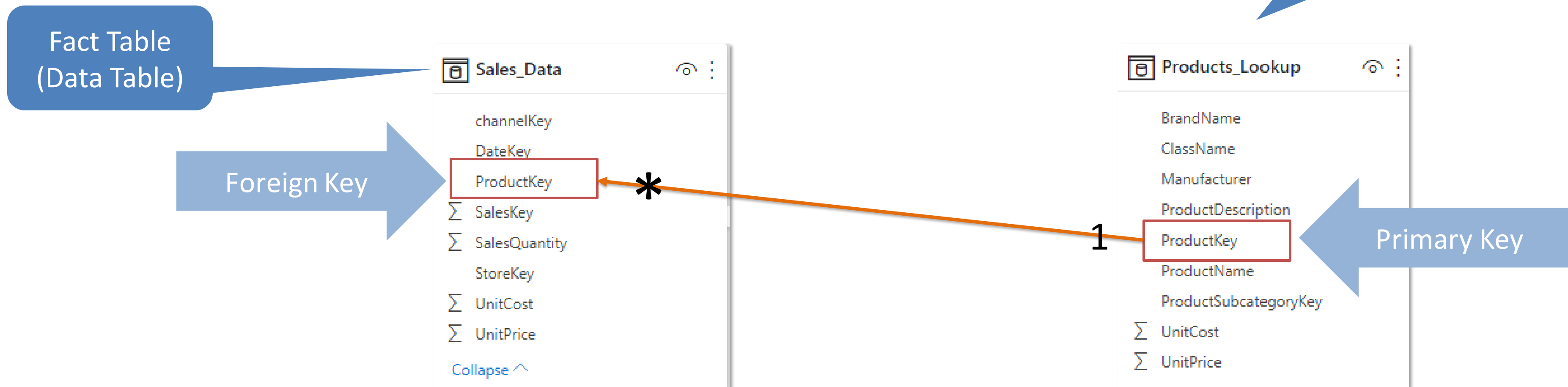
All

-  Excel Workbook
-  Text/CSV
-  XML
-  JSON
-  Folder
-  PDF
-  Parquet
-  SharePoint folder
-  SQL Server database
-  Access database
-  SQL Server Analysis Services database
-  Oracle database
-  IBM Db2 database
-  IBM Informix database (Beta)
-  IBM Netezza
-  MySQL database

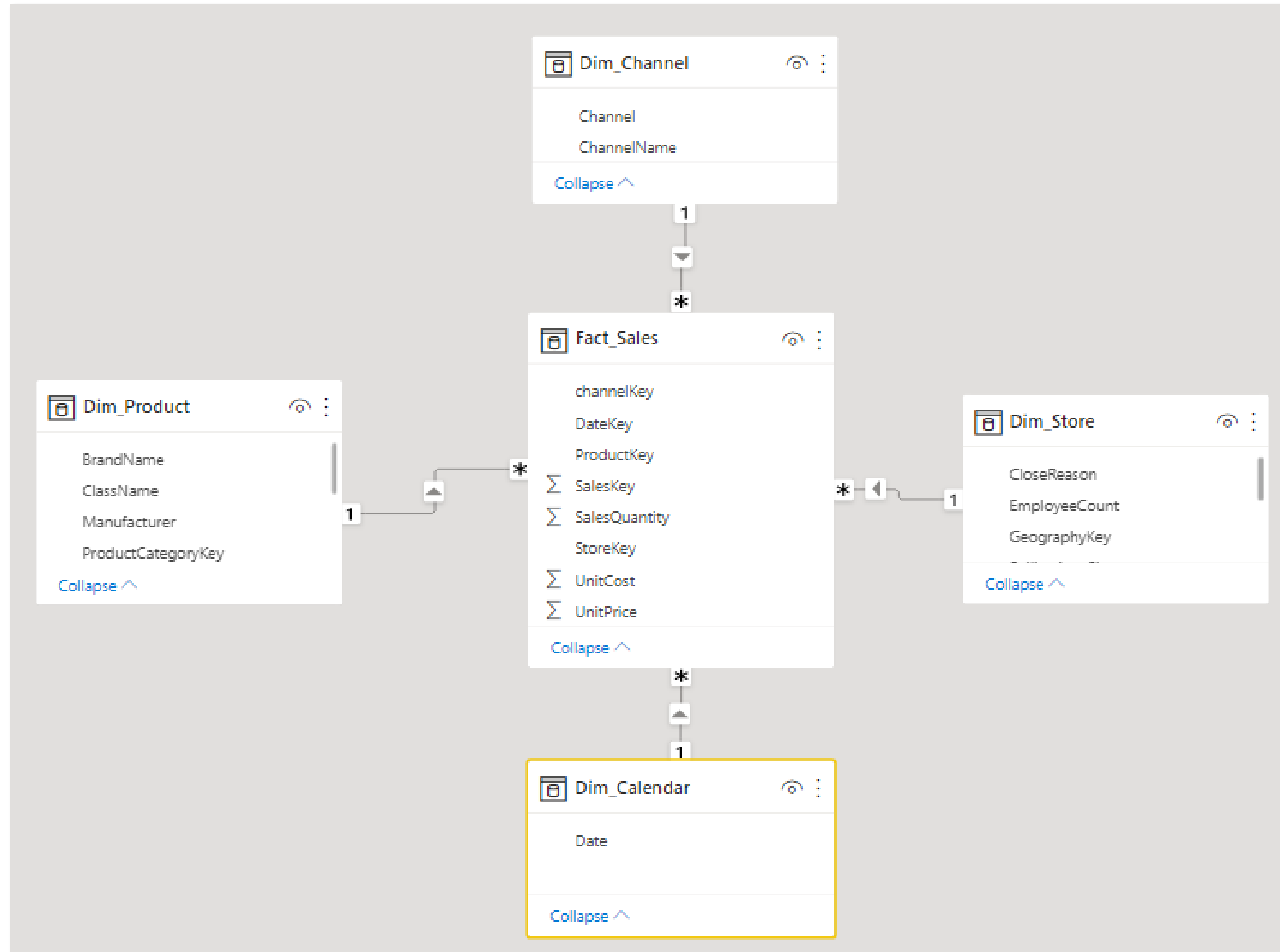
Data Modeling

Data Modeling

- * Data modeling is the process of creating relationships between multiple tables
- * The relationships are made on the basis of:
 - **Primary Keys**
 - **Foreign Keys**



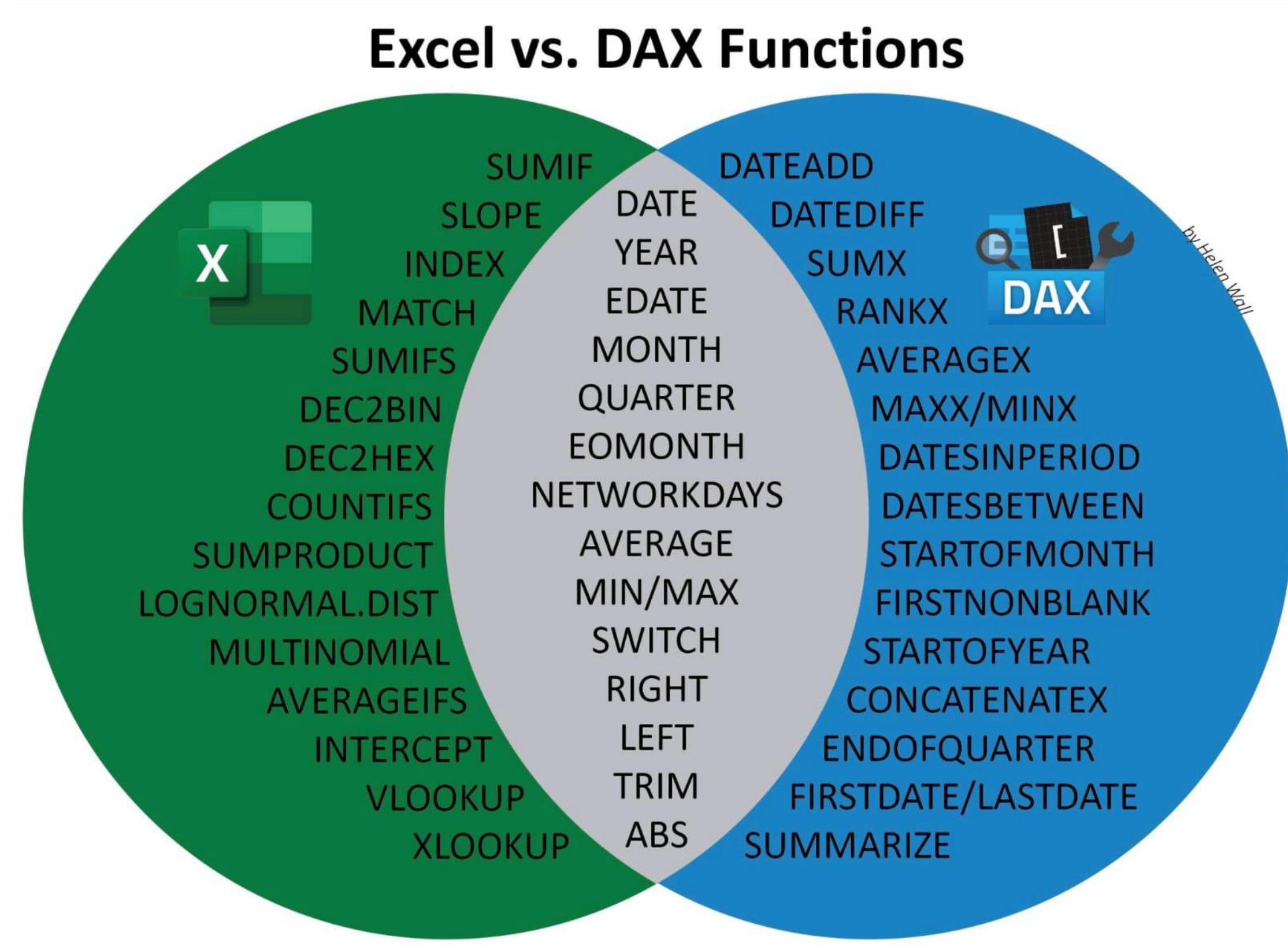
Data Model



Data Analysis Expressions (DAX)

Increase the analytical power of the model by adding calculations

Excel vs. DAX Functions



What is Dashboard?

What is DASHBOARD?

Dashboard is a **VISUAL DISPLAY** with the following features:

- Designed with a specific **OBJECTIVE**
- For a specific **AUDIENCE**
- Shows only the **MOST IMPORTANT INFORMATION**
- Can be monitored at a **GLANCE**
- Displayed on **SINGLE SCREEN**
- Nice to use **EVERYDAY**

1



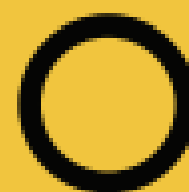
Design for a target

2



Keep everything at a glance

3



Keep it simple

4



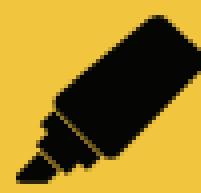
Align elements

5



Be consistent

6



Highlight the most relevant information

7



Be clear

8



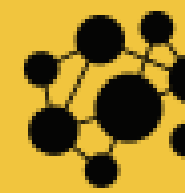
Start from zero

9

1M

Shorten the numbers

10



Show the context

11



Choose the right colors

12



Design dashboards, not reports

13



Show variations

14



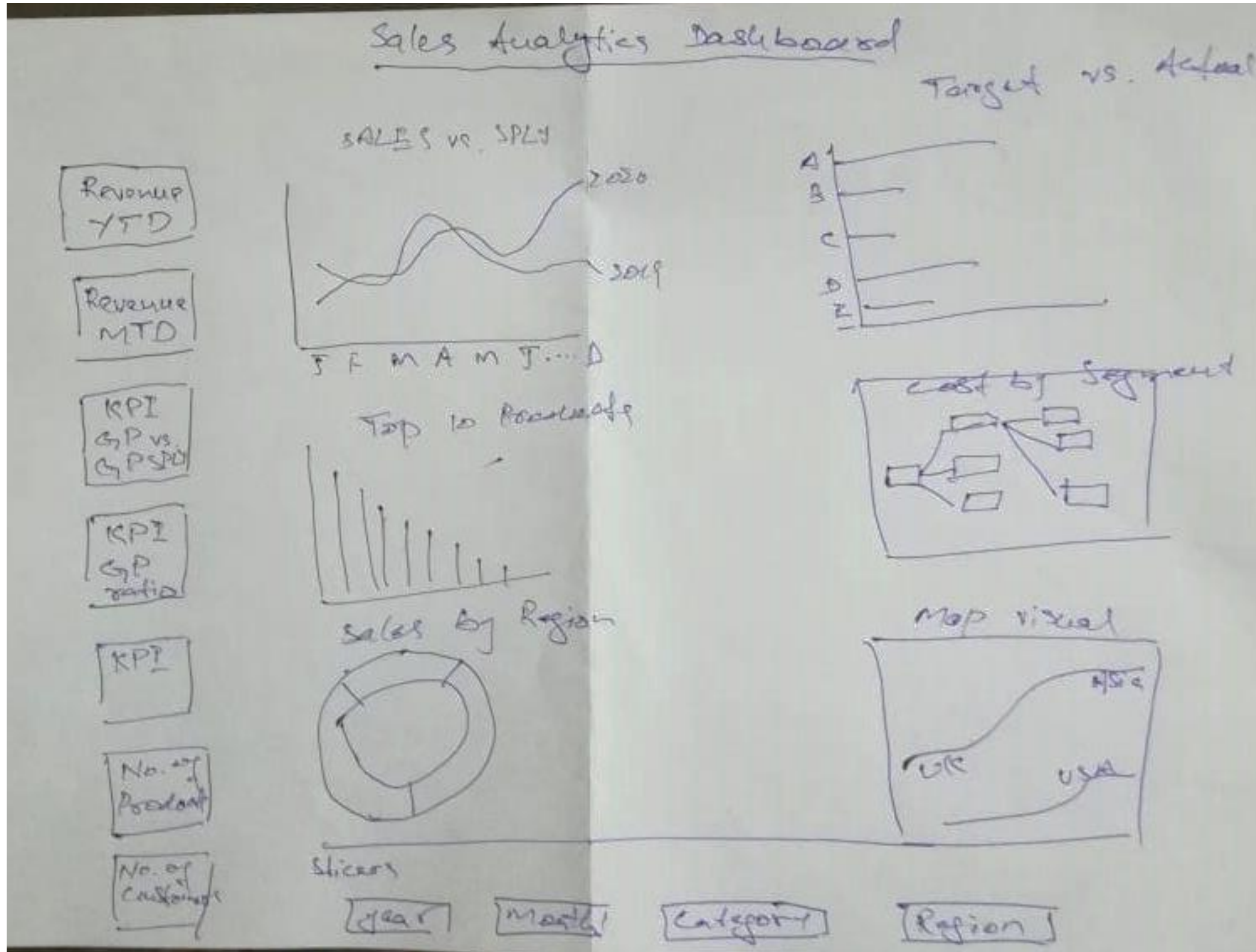
Leave the noise off

15

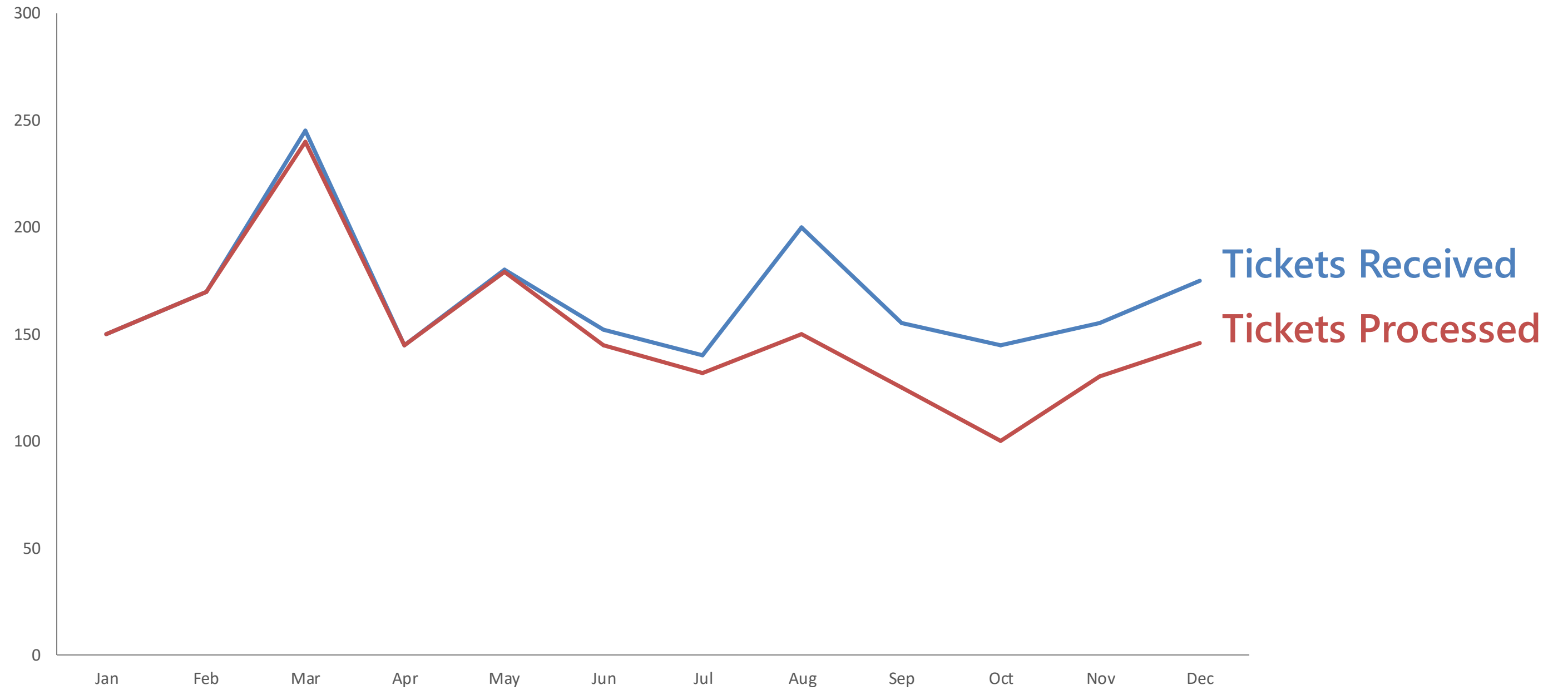


Pick the right charts

Start with a Dashboard Layout



Story Telling



Demonstration

Skills/Tools you should focus on.

1. Continues Professional Development – Shelf Life
2. Microsoft Excel-a Must
3. Microsoft Power BI – a Plus
4. Personal Branding
5. Networking

Q&A

Contact Details

Abdul Shakoor

0303 4565764

shakooraca@gmail.com / ceo@lexicon.edu.pk