Explain Common Components of Power BI



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What's covered in previous Module?

Data View

Collect data and wrangle data

Model View

Build your data mode

Report View

Build your visualizations

What's covered in previous Module?

Data View

Collect data and wrangle data

Model View

Build your data model Report View

Build your visualizations

What we shall cover in this module?

Data View

Collect data and wrangle data

Model View

Build your data model

Report View

Build your visualizations



Model View: Build the Data Model



Report View: Visualization, Pages and Reports



Visualization Controls

Bar Chart

Extremely popular, used to compare objects or things across categories

Line Chart

Leveraged to find trends over a period of time, find seasonal patterns, etc. Popularly used in time series data.

Pie Chart

Should be used when you want to compare one category against the complete dataset

Scatter Chart

Should be used when you want to track anomalies or patterns in data

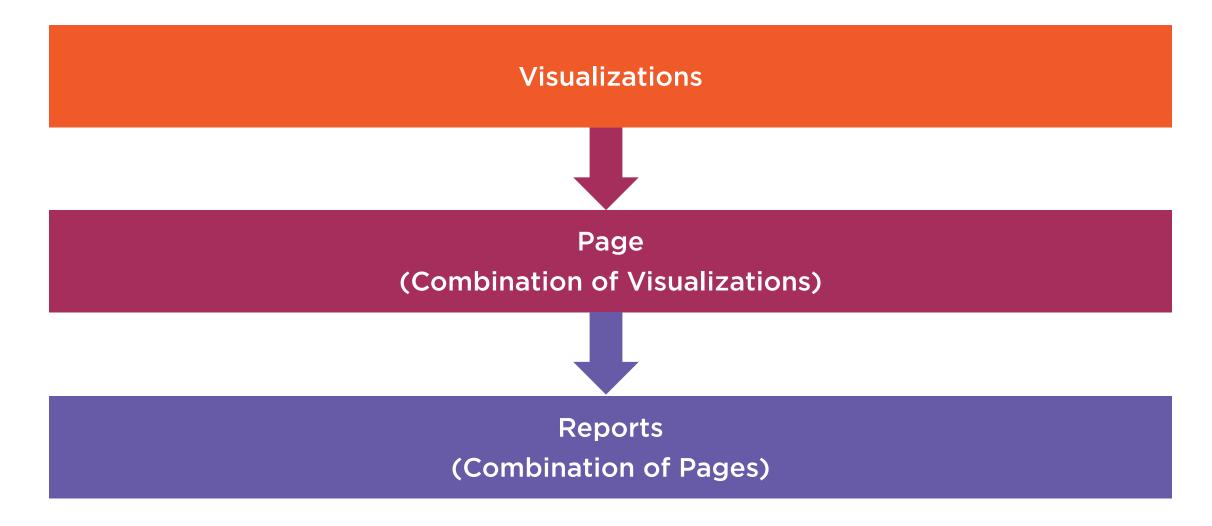
Maps

For showcasing location, geographies to capture the geographical imagination of the users

Slicers

Visual Canvas Filters used in Power BI

Reports, Pages and Visualizations







Report View: Interface

- Visualization Controls
- Pages
- Reports





Report View: Build your first Bar Chart





Report View: Pie Chart





Report View: Text Table & Heat Maps





Report View: Filled Maps



Filters and its Types





Report View: Using Slices



Filters and its Types



Power BI has three types of filters



Filters and Its Types

Visual Filter

Apply to a single visualization

Page Filter

Applies to all the visualizations in a page

Report Filter

Applies to all the visualizations in a report

Visual Formatting for Visualizations in Power Bl



Two Levels of Visual Formatting

Visualization Level Legends Colors Labels Title Background

Page Level Information Size Alignment Filter Pane Wallpaper



Power BI Editor: Aggregate Functions



Custom Visuals Usage



Custom Visuals - Build vs Buy

Buy

Buy custom visuals from Power BI AppStore (many of them are free)

Build

Build your own Custom Visuals

Describe and Implement Aggregate Functions



When to Use Aggregate Functions

Reduce the Dataset

Combine and reduce the size of the dataset

Understand the Data

Output is generally one value or row



Types of Aggregate Functions

SUM

Add all the values in a field

AVERAGE

Take an arithmetic mean of the values

MINIMUM

Show the smallest values

MAXIMUM

Show the largest values

COUNT (not blank)

Counts the number of values in that field that aren't blank



Types of Aggregate Functions

COUNT

(not distinct)

Counts the number of different values in that field

STANDARD

DEVIATION

Deviation from the mean of values

VARIANCE

Variance from the mean of values

MEDIAN

Middle number in a sorted list

Do Not Summarize In case we don't want to summarize a numeric field





Implement Aggregate Functions



Compare and Contrast Power BI Common Components



Compare and Contrast Power Bl ------Common Components

