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**Across North America** 

Training Consulting Coaching Development

## Power BI Mastering the Art of Data Intelligence Handout

#### What Is Power BI?

Power BI is a business analytics service that enables users to visualize and analyze data with greater efficiency.

#### **Complex Data Modelling**

- Power BI allows you to create complex table relationships between datasets.
- By establishing these relationships, you can create more accurate and detailed reports.
- There are a variety of different relationship types available in Power BI, including one-to-one, one-to-many, and many-to-many.

#### **Example of an Active Relationship:**

Tip: Use a DAX formula in order to build that relationship

From table						
Sales			$\sim$			
CustomerKey	DueDateKey	Extended Am	Order Quantity	OrderDateKey	Product Stan	ProductK
-1	20170717	419.4589	1	20170707	413.1463	322
-1	20170719	419.4589	1	20170709	413.1463	330
-1	20170719	419.4589	1	20170709	413.1463	334
To table Date		e de seu (1970-1911) de la	~			
To table Date Date	DateKey	Fiscal Quarter	V Fiscal Year	Full Date	Month	MonthKe
To table Date Date July-01-19	DateKey 20190701	Fiscal Quarter FY2020 Q1	Fiscal Year FY2020	Full Date July-01-19	Month July-01-19	MonthKe 201907
Date Date July-01-19 July-02-19	DateKey 20190701 20190702	Fiscal Quarter Fy2020 Q1 Fy2020 Q1	Fiscal Year FY2020 FY2020	Full Date July-01-19 July-02-19	Month July-01-19 July-01-19	MonthKe 201907 201907
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1



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### **Bi-Directional Cross Filtering in Power BI Desktop**

- Bi-directional cross filtering allows you to filter data in both directions between two tables, creating more dynamic reports.
- This feature is useful when tables have a many-to-many relationship.
- May not work well in databases with large data sets.

#### **Dynamic Row-Level Security in Power BI**

- Dynamic row-level security allows you to restrict access to specific rows based on user credentials.
- This feature is useful for maintaining data privacy and ensuring that sensitive information is accessible only to authorized users.
- Row-level security can be applied to both imported and DirectQuery data sources.

#### **Creating Custom Visuals with Power BI SDK Using R**

- Power BI SDK allows developers to create custom visuals using R programming language.
- Custom visuals using R can be integrated into Power BI reports seamlessly.
- Developers can use R packages to create custom visuals with ease and flexibility.
- Custom visuals can be shared across Power BI workspaces and added to the marketplace.

# Creating Custom Visuals with Power BI SDK Using Python

- Power BI SDK allows developers to create custom visuals using Python programming language.
- Developers can use Python libraries to create custom visuals with ease and flexibility.
- Custom visuals can be integrated into Power BI reports seamlessly.



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### Filtering Data with DAX

- DAX formulas can be used to filter data for specific time periods or other criteria.
- The FILTER function can be used to filter data based on specific criteria, such as dates or values.
- BEST Practices for Filtering data with DAX include using simple filters, defining relationships between tables, and avoiding circular references.

#### **Time-Series Analysis in Power BI**

- Time-series analysis is used to identify patterns and trends in data over time.
- Power BI provides built-in functionality for time-series analysis, including forecasting and regression analysis.
- Time-series analysis can be used to make predictions about future trends in data.

#### **Overview of Advanced Sharing in Power Bl**

• Advanced sharing in Power BI allows users to share their reports and dashboards with internal and external users.

Watch the webinar replay <u>here</u>. Want to know more about Power BI? Start with the <u>Fundamentals of Power BI</u> or explore our Power BI courses <u>here</u>.

3