

POWER BI CHEAT SHEET

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The Merge Guide for the Power Query Editor

Left Outer	Right Outer	Full Outer
What it selects: All rows from the left table, matching rows from the right table Example: Suppose you have a table of customers and a table of orders. A left outer join would return all customers and their associated orders, including those customers who have not placed any orders.	What it selects: All rows from the right table, matching rows from the left table Example: Continuing with the customer and orders example, a right outer join would return all orders and their associated customers, including those orders that are not linked to any customers.	What it selects: All rows from both tables Example: In the context of customer and orders, a full outer join would return all customers and their orders, as well as all orders and their associated customers. It includes all rows from both tables, filling in with null values where there is no match
What it selects: Only matching rows from both tables Example: If you only want to retrieve rows where there is a match in both tables, you would use an inner join. For example, if you want to get a list of customers who have placed orders, you would use an inner join between the customers and orders tables..	What it selects: Only rows from the left table. Example: An anti join is used to find records in the left table for which there is no corresponding match in the right table. For example, if you want to find customers who have not placed any orders, you would use a left anti join between the customers and orders tables..	What it selects: Only rows from the right table. Example: Similar to the left anti join, a right anti join is used to find records in the right table for which there is no corresponding match in the left table. For instance, finding orders that have no associated customers.

You can use fuzzy merge to apply fuzzy matching algorithms when comparing columns!

Power BI Data Types

Decimal Number	Fixed Decimal Number	Whole Number
Example: 2319.99 Use Case: Average Product Price	Example: 2,319.99 Use Case: Currency Values	Example: 2320 Use Case: Number of Units Sold
Percentage	Date/Time	Date
Example: 231999.00% Use Case: Market Share Percentage	Example: 1/1/2005 12:00:00 AM Use Case: Timestamp of Customer Purchases	Example: 1/1/2005 Use Case: Sales Date
Time	Date/Time/Timezone	Duration
Example: 12:00:00 AM Use Case: Duration of a customer support call	Example: 1/1/2005 12:00:00 AM -05:00 Use Case: Timestamps with varied Timezones	Example: Years/Months/Days/ Hours/ Minutes/ Seconds Use Case: Time taken for a manufacturing process
Text	True/False	Binary
Example: Atlas Use Case: Product Names	 Example: TRUE / FALSE Use Case: Purchase Status, TRUE if customer made a purchase, FALSE if not.	 Example: BINARY Use Case: Only for Legacy purposes. If you try to load binary columns into Power BI, you might run into errors.

Any

Example:

???

Use Case:

The status given to a column that doesn't have an explicit data type definition.

Power BI Visuals

Comparison	Trends	Status	Geographic Location	Parts-of-a-Whole
Highlight relative differences and similarities between data points. Use Case: Compare monthly sales performance between different products using a column chart to identify top-performing items.	The Merge Guide for the Power Query Editor Use Case: Analyze quarterly revenue trends using a line chart to identify growth or decline patterns over time.	Conveys the current state or performance of a metric. Use Case: Display the current sales performance against the target using a gauge visual for a quick status check.	Represents data spatially, showing patterns across regions. Use Case: Analyze regional sales performance using a filled map to identify high and low-performing areas.	Illustrates how individual components contribute to the whole. Use Case: Visualize the percentage distribution of product categories in total sales using a treemap.
Stacked Bar Chart Clustered Bar/ Column Chart 100% Stacked Bar Chart Scatter Plot	Line Stacked Column Chart Line and Stacked Column Chart	Card Gauge KPI Multi-Row Card Card (new) Metrics (Preview)	Map Filled Map Shape Map Azure Map ArcGIS Maps	Pie Chart Treemap Area Chart Stacked Area Chart Ribbon Donut Chart 100% Stacked Column Chart

Tabular

Flow	Filters	Artificial Intelligence
Visualizes the flow or progression of data or processes. Use Case: Visualize the workflow of a sales process using a flowchart to understand the stages and bottlenecks.	Enables interactive control to refine displayed data. Use Case: Allow users to dynamically explore sales data by product category using slicers for interactive filtering.	Leverages AI for automated insights, predictions, or recommendations Use Case: Implement sentiment analysis on customer feedback using an AI-powered visual to identify positive and negative sentiments.

Presents data in a structured, row-and-column format for detailed information.

Use Case:
Display detailed information about employee performance, such as sales figures and targets, using a table visual.

Table

Matrix

Waterfall

Funnel

Slicer

Slicer (New)

Q&A

Key Influencers

Smart Narrative

Decomposition Tree