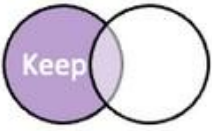
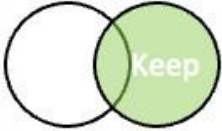
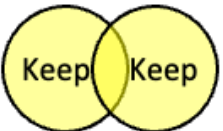
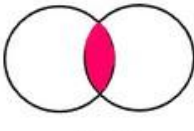
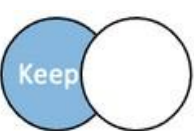
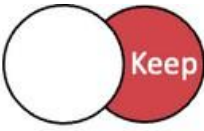


# POWER BI CHEAT SHEET





Ajeeth Kumar G

## The Merge Guide for the Power Query Editor



































Left Outer	Right Outer	Full Outer
		
<b>What it selects:</b> All rows from the left table, matching rows from the right table	<b>What it selects:</b> All rows from the right table, matching rows from the left table	<b>What it selects:</b> All rows from both tables
<b>Example:</b> 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.	<b>Example:</b> 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.	<b>Example:</b> 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
Inner	Left Anti	Right Anti
		
<b>What it selects:</b> Only matching rows from both tables	<b>What it selects:</b> Only rows from the left table.	<b>What it selects:</b> Only rows from the right table.
<b>Example:</b> 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.	<b>Example:</b> 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..	<b>Example:</b> 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
<b>Example:</b> 2319.99	<b>Example:</b> 2,319.99	<b>Example:</b> 2320
<b>Use Case:</b> Average Product Price	<b>Use Case:</b> Currency Values	<b>Use Case:</b> Number of Units Sold
Percentage	Date/Time	Date
<b>Example:</b> 231999.00%	 <b>Date/Time</b>	 <b>Date</b>
<b>Use Case:</b> Market Share Percentage	<b>Example:</b> 1/1/2005 12:00:00 AM	<b>Example:</b> 1/1/2005
	<b>Use Case:</b> Timestamp of Customer Purchases	<b>Use Case:</b> Sales Date
Time	Date/Time/Timezone	Duration
<b>Example:</b> 12:00:00 AM	<b>Example:</b> 1/1/2005 12:00:00 AM -05:00	<b>Example:</b> Years/Months/Days/Hours/ Minutes/ Seconds
<b>Use Case:</b> Duration of a customer support call	<b>Use Case:</b> Timestamps with varied Timezones	<b>Use Case:</b> Time taken for a manufacturing process
Text	True/False	Binary
<b>Example:</b> Atlas	 <b>True/False</b>	 <b>Binary</b>
<b>Use Case:</b> Product Names	<b>Example:</b> TRUE / FALSE	<b>Example:</b> BINARY
	<b>Use Case:</b> Purchase Status, TRUE if customer made a purchase, FALSE if not.	<b>Use Case:</b> Only for Legacy purposes. If you try to load binary columns into Power BI, you might run into errors.
	<b>Any</b>	
<b>Example:</b> ???		
<b>Use Case:</b> 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.	The Merge Guide for the Power Query Editor	Conveys the current state or performance of a metric.	Represents data spatially, showing patterns across regions.	Illustrates how individual components contribute to the whole.
<b>Use Case:</b> Compare monthly sales performance between different products using a column chart to identify top-performing items.	<b>Use Case:</b> Analyze quarterly revenue trends using a line chart to identify growth or decline patterns over time.	<b>Use Case:</b> Display the current sales performance against the target using a gauge visual for a quick status check.	<b>Use Case:</b> Analyze regional sales performance using a filled map to identify high and low-performing areas.	<b>Use Case:</b> Visualize the percentage distribution of product categories in total sales using a treemap.
Stacked Bar Chart 	Line 	Card 	Map 	Pie Chart 
Clustered Bar/Column Chart 	Stacked Column Chart 	Gauge 	Filled Map 	Treemap 
100% Stacked Bar Chart 	Line and Stacked Column Chart 	KPI 	Shape Map 	Area Chart 
Scatter Plot 		Multi-Row Card 	Azure Map 	Stacked Area Chart 
		Card (new) 	ArcGIS Maps 	Ribbon 
		Metrics (Preview) 		Donut Chart 
				100% Stacked Column Chart 
Tabular	Flow	Filters	Artificial Intelligence	
Presents data in a structured, row-and-column format for detailed information.	Visualizes the flow or progression of data or processes.	Enables interactive control to refine displayed data.	Leverages A.I for automated insights, predictions, or recommendations	
<b>Use Case:</b> Display detailed information about employee performance, such as sales figures and targets, using a table visual.	<b>Use Case:</b> Visualize the workflow of a sales process using a flowchart to understand the stages and bottlenecks.	<b>Use Case:</b> Allow users to dynamically explore sales data by product category using slicers for interactive filtering.	<b>Use Case:</b> Implement sentiment analysis on customer feedback using an AI-powered visual to identify positive and negative sentiments.	
Table 	Waterfall 	Slicer 	Q&A 	Smart Narrative 
Matrix 	Funnel 	Slicer (New) 	Key Influencers 	Decomposition Tree 