

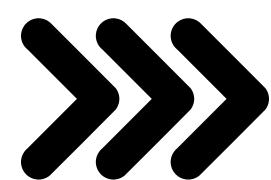


# Tajamul Khan

# Tableau cheat sheet



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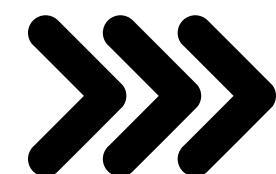


# Math Functions

- **SUM:** `SUM([Sales])`
- **AVG:** `AVG([Sales])`
- **MIN:** `MIN([Sales])`
- **MAX:** `MAX([Sales])`
- **COUNT:** `COUNT([Customer ID])`
- **COUNTD:** `COUNTD([Customer ID])`

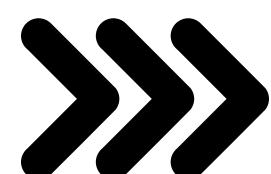


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# Text Functions

- **LEFT:** LEFT([Product Name], 3)
- **RIGHT:** RIGHT([Product Name], 5)
- **LEN:** LEN([Product Name])
- **UPPER:** UPPER([Product Name])
- **LOWER:** LOWER([Product Name])
- **TRIM:** TRIM([Product Name])
- **FIND:** FIND("Apple", [Product Name])
- **CONTAINS:** CONTAINS([Product Name], "Apple")
- **MID:** MID([Product Name], 2, 4)
- **REPLACE:** REPLACE([Product Name], "old", "New")
- **SPLIT:** SPLIT([Product Name], " ", 2)



# Date Functions

- **TODAY:** TODAY()
- **NOW:** NOW()
- **YEAR:** YEAR([Order Date])
- **MONTH:** MONTH([Order Date])
- **DAY:** DAY([Order Date])
- **DATEDIFF:** DATEDIFF('day',  
[Start Date], [End Date])
- **DATEADD:** DATEADD('month', 3,  
[Order Date])
- **DATETRUNC:**  
DATETRUNC('quarter', [Order  
Date])
- **MAKEDATE:** MAKEDATE(2023, 12,  
25)
- **MAKETIME:** MAKETIME(10, 30, 0)



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# Logical Functions

- **IF:** IF [Sales] > 10000 THEN "High" ELSE "Low" END
- **IF-ELSEIF:** IF [Profit] > 100 THEN "High" ELSEIF [Profit] > 50 THEN "Medium" ELSE "Low" END
- **CASE:** CASE [Category] WHEN "Furniture" THEN "Furn" WHEN "Office Supplies" THEN "Office" ELSE "Other" END
- **AND:** IF [Sales] > 1000 AND [Profit] > 100 THEN "Good" END
- **OR:** IF [Sales] > 1000 OR [Profit] > 100 THEN "Good" END
- **NOT:** IF NOT [Discount] > 0.1 THEN "Low Discount" END
- **ZN:** ZN([Profit]) (Replaces NULL with zero)



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# Table Calculations

- **INDEX:** INDEX()
- **RANK:** RANK([Sales])
- **RANK\_DENSE:**  
RANK\_DENSE([Sales])
- **RUNNING\_SUM:**  
RUNNING\_SUM([Sales])
- **WINDOW\_AVG:**  
WINDOW\_AVG([Sales])
- **WINDOW\_MAX:**  
WINDOW\_MAX([Sales])
- **WINDOW\_MIN:**  
WINDOW\_MIN([Sales])
- **WINDOW\_SUM:**  
WINDOW\_SUM([Sales])



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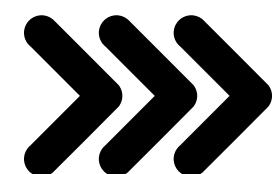


# Statistical Functions

- **MEDIAN:** MEDIAN([Sales])
- **VAR:** VAR([Sales])
- **STDEV:** STDEV([Sales])
- **CORR:** CORR([Sales], [Profit])
- **PERCENTILE:**  
PERCENTILE([Sales], 0.75)



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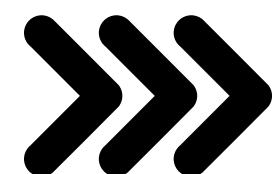


# Financial Functions

- **ROUND:** ROUND([Profit], 2)
- **ABS:** ABS([Profit])
- **CEILING:** CEILING([Profit])
- **FLOOR:** FLOOR([Profit])
- **LOG:** LOG([Sales])
- **EXP:** EXP([Sales])



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# Lookup Functions

- **LOOKUP:**

LOOKUP([Sales], -1)

(Previous row value)

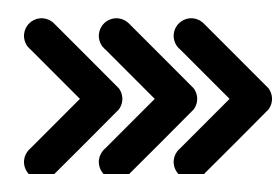
- **PREVIOUS\_VALUE:**

PREVIOUS\_VALUE(0) +

[Sales]

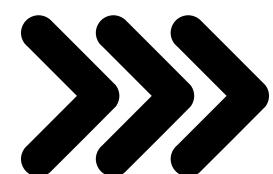
- **FIRST:** FIRST()

- **LAST:** LAST()



# Level of Detail (LOD)

- **FIXED:** { FIXED [Category]:  
SUM([Sales]) }
- **INCLUDE:** { INCLUDE  
[Region]: AVG([Sales]) }
- **EXCLUDE:** { EXCLUDE [State]:  
SUM([Sales]) }

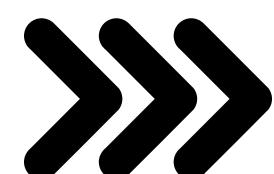


# Data Blending & Relationships

- **ATTR:** ATTR([Customer Name])
- **ISNULL:** ISNULL([Sales])
- **ZN:** ZN([Sales])
- **IFNULL:** IFNULL([Sales], 0)
- **IF ISNULL:** IF  
ISNULL([Sales]) THEN  
"Missing"



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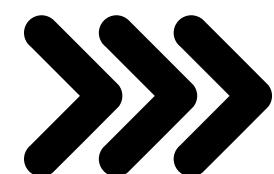


# Geospatial Functions

- **MAKELINE**: `MAKELINE([Lat1], [Long1], [Lat2], [Long2])`
- **MAKEPOINT**:  
`MAKEPOINT([Latitude], [Longitude])`
- **DISTANCE**:  
`DISTANCE([Location1], [Location2], 'km')`



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# Time Intelligence

- Start of Month: `DATETRUNC('month', [Order Date])`
- Month-over-Month % Change:  
`(SUM([Sales]) - LOOKUP(SUM([Sales]), -1)) / LOOKUP(SUM([Sales]), -1)`
- Year-over-Year % Growth:  
`(SUM([Sales]) - LOOKUP(SUM([Sales]), -12)) / LOOKUP(SUM([Sales]), -12)`
- Cumulative Sales:  
`RUNNING_SUM(SUM([Sales]))`
- 3-Month Moving Average:  
`WINDOW_AVG(SUM([Sales]), -3, 0)`
- Fiscal Year (Starting April): `IF MONTH([Order Date]) >= 4 THEN YEAR([Order Date]) ELSE YEAR([Order Date]) - 1 END`



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