Tableau Functions

CodeNetra

Number Functions

Function	Example	Description
ABS()	ABS([Profit])	Returns absolute value of a number
CEILING()	CEILING([Discount])	Rounds a number up to the nearest integer
FLOOR()	FLOOR([Sales])	Rounds a number down to the nearest integer
ROUND()	ROUND([Profit], 2)	Rounds number to specified decimals
SQRT()	SQRT([Sales])	Returns square root
ZN()	ZN([Profit])	Converts null to zero

CodeNetra

String Functions

Function	Example	Description
LEFT()	LEFT([Customer Name], 5)	Returns leftmost characters
RIGHT()	RIGHT([Customer Name], 3)	Returns rightmost characters
LEN()	LEN([Region])	Returns length of string
UPPER()	UPPER([City])	Converts to uppercase
LOWER()	LOWER([City])	Converts to lowercase
FIND()	FIND([Product Name], "Desk")	Finds substring position

CodeNetra

Date Functions

Function	Example	Description
TODAY()	TODAY()	Returns current date
DATEPART()	DATEPART('year', [Order Date])	Returns part of a date
DATEDIFF()	DATEDIFF('day', [Order Date], [Ship Date])	Difference between dates
DATEADD()	DATEADD('month', 3, [Order Date])	Adds interval to date
MAKEDATE()	MAKEDATE(2025, 10, 21)	Creates a date
DATENAME()	DATENAME('month', [Order Date])	Returns name of date part

CodeNetra

Logical Functions

Function	Example	Description
IF	IF [Sales] > 1000 THEN "High" ELSE "Low" END	Conditional logic
CASE	CASE [Region] WHEN "East" THEN 1 ELSE 0 END	Switch-style logic
ISNULL()	IF ISNULL([Profit]) THEN 0 ELSE [Profit] END	Checks for null
ZN()	ZN([Discount])	Converts null to zero
IIF()	IIF([Sales]>500,"Yes","No")	Inline if condition
AND/OR/NOT	IF [Profit]>0 AND [Sales]>1000 THEN "Good" END	Logical operators

CodeNetra

AggregatPass-Through Functions (RAWSQL)e Functions

Function	Example	Description
RAWSQL_REAL()	RAWSQL_REAL("SELECT AVG(Sales) FROM Orders")	Executes SQL returning real value
RAWSQL_STR()	RAWSQL_STR("SELECT Category FROM Products")	Returns string result
RAWSQL_BOOL()	RAWSQL_BOOL("SELECT CASE WHEN Profit > 0 THEN 1 ELSE 0 END")	Returns boolean
RAWSQL_DATETIME()	RAWSQL_DATETIME("SELECT GETDATE()")	Returns datetime
RAWSQL_INT()	RAWSQL_INT("SELECT COUNT(*) FROM Orders")	Returns integer
RAWSQL()	RAWSQL("SELECT MAX(Sales) FROM Orders")	Generic SQL execution

CodeNetra

Function	Example	Description
USERNAME()	USERNAME()	Returns logged-in Tableau username
FULLNAME()	FULLNAME()	Returns full name of user
ISMEMBEROF()	ISMEMBEROF('Sales Team')	Checks if user is in group
USERDOMAIN()	USERDOMAIN()	Returns domain name of user
ISADMIN()	ISADMIN()	Checks if user is admin (server only)

CodeNetra

Table Calculation Functions

Function	Example	Description
LOOKUP()	LOOKUP(SUM([Sales]), -1)	Previous row value
RUNNING_SUM()	RUNNING_SUM(SUM([Profit]))	Cumulative total
WINDOW_AVG()	WINDOW_AVG(SUM([Sales]))	Average in window
INDEX()	INDEX()	Row index number
RANK()	RANK(SUM([Sales]))	Ranks values
TOTAL()	TOTAL(SUM([Sales]))	Total across entire table

CodeNetra

Spatial Functions

Function	Example	Description
MAKEPOINT()	MAKEPOINT([Latitude], [Longitude])	Creates spatial point
MAKELINE()	MAKELINE([Start Point], [End Point])	Draws line
BUFFER()	BUFFER([Location], 10, 'km')	Creates circular buffer
DISTANCE()	DISTANCE([Point1], [Point2], 'km')	Calculates distance
AREA()	AREA([Polygon])	Returns area
INTERSECTS()	INTERSECTS([Region1], [Region2])	Tests spatial overlap

CodeNetra

Function	Example	Description
MODEL_QUANTILE()	MODEL_QUANTILE(0.5, SUM([Sales]))	Predicts median
MODEL_PERCENTILE()	MODEL_PERCENTILE(SUM([Profit]))	Returns percentile rank
MODEL_CI_LOWER()	MODEL_CI_LOWER(SUM([Sales]))	Lower bound of prediction
MODEL_CI_UPPER()	MODEL_CI_UPPER(SUM([Sales]))	Upper bound of prediction
MODEL_FORECAST()	MODEL_FORECAST(SUM([Sales]), DATEPART('month', [Date]))	Predicts future values
MODEL_R2()	MODEL_R2(SUM([Sales]))	Returns model fit (R^2)

CodeNetra

Additional Functions

Function	Example	Description
SIZE()	SIZE()	Number of rows in partition
INDEX()	INDEX()	Row position
FIRST()	FIRST()	Offset from first row
LAST()	LAST()	Offset from last row
ATTR()	ATTR([Category])	Returns unique value or *
INCLUDE/EXCLUDE	{INCLUDE [Region]: SUM([Sales])}	LOD expressions

CodeNetra

Example	Description
STR(ROUND([Sales], 2))	Convert number to string with 2 decimals
"₹" + STR(INT([Sales]))	Add currency symbol
LEFT(STR(DATE([Order Date])), 10)	Convert date to formatted string
REPLACE(STR([Profit]), ".", ",")	Replace decimal symbol
RIGHT("000" + STR([ID]), 4)	Format ID with leading zeros

Note: Tableau doesn't support FORMAT() directly — use these workarounds

Follow Us

YouTube **CodeNetra**

WhatsApp

CodeNetra