**DAX MASTERCLASS**

**DATE & TIME**

1. **CALENDER DAX:** Creates a table using start date and end date that we provide

Date = CALENDAR ("1/1/2025","31,12,2025")

1. **CALENDARAUTO DAX:** Automatically creates a list of dates from jan – Dec detecting the dates present in your data model

Calendarauto table = CALENDARAUTO ( )

1. **DATE:** Returns the specified date in DATETIME Format

DATE = DATE(2023,2,25)

Date with many time analysis exp = DATE(YEAR(PizzaSales[Date]), MONTH(PizzaSales[Date]),1) : Returns every 1st day of the month regardless of the other days of that months year

1. **DATEDIFF:** Returns the number of interval boundaries between two dates

DATEDIFF = DATEDIFF(PizzaSales[Date with many time analysis exp],PizzaSales[Date],HOUR)

1. **DATEVALUE**: Converts a date in the form of text to a date in DATETIME Format

concatenate date columns(text)= DATEVALUE ('Calendar'[Day num] & "/" & 'Calendar'[month name] & "/" & 'Calendar'[Year])

1. **NOW** : Gives current date and time in your current system

Now = NOW()

1. **TODAY:** Gives you current date but with no time

Today = TODAY()

1. **DAY:** Extract day number

Day num = DAY('Calendar'[Date]) eg 1,2,4

1. **MONTH:** Extract month number eg 1,2,4

Month = MONTH('Calendar'[Date])

1. **FORMAT:** Extract either month name, Day name, Year number

month name = FORMAT('Calendar'[Month],"MMMM")

1. **EDATE:** Returns a date which is a number of months before or after start date

Edate = EDATE('Calendar'[Date],1) // if our date table had values starting from jan (1/1/2023) our EDATE will start forward with one month(depends with the value youve used . if its 2 it will tart with 2 months forward i.e (1,3,2023))

Edate = EDATE('Calendar'[Date],-1) // if our date table had values starting from jan (1/1/2023) our EDATE will start backwards with one month(depends with the value youve used . if its 2 it will tart with 2 months backwards (1,11,2022))

1. **EOMONTH:** Stands for “END OF MONTH” . Gives you last date of provided month. Works as EDATE but this considers last days of month

Eomonth = EOMONTH('Calendar'[Date],0) // returns last day of current month eg(31/1/2023)

Eomonth = EOMONTH('Calendar'[Date],1) // returns (28/2/2023)

Eomonth = EOMONTH('Calendar'[Date],-1) // returns (31/12/2022)

* NB/ If you want to get 1st of the month you can just add 1 on the EOMONTH i.e

Eomonth = EOMONTH('Calendar'[Date],0) + 1 or

Somonth = EOMONTH('Calendar'[Date], -1) +1

1. **NETWORKDAYS:** Gives number of working days within your supplied dates. You can also remove weekends and holidays

Network = NETWORKDAYS("1/1/2023",'Calendar'[Date],1, holidays)

// The value 1 takes Saturday and Sunday as Weekends and the holidays is the holiday table containing specific dates that are for holiday

1. **WEEKDAY:** Returns a weekday number

Weekday = WEEKDAY('Calendar'[Date],1)