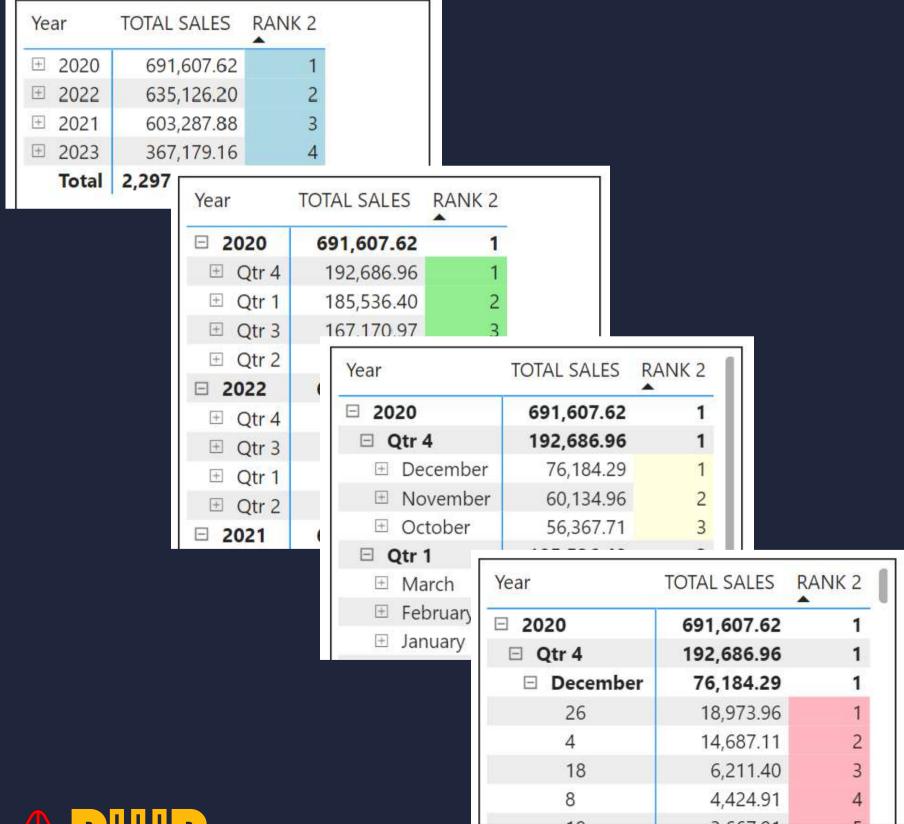
DAX DAIRY

How to calculate hierarchical ranking



Scenario

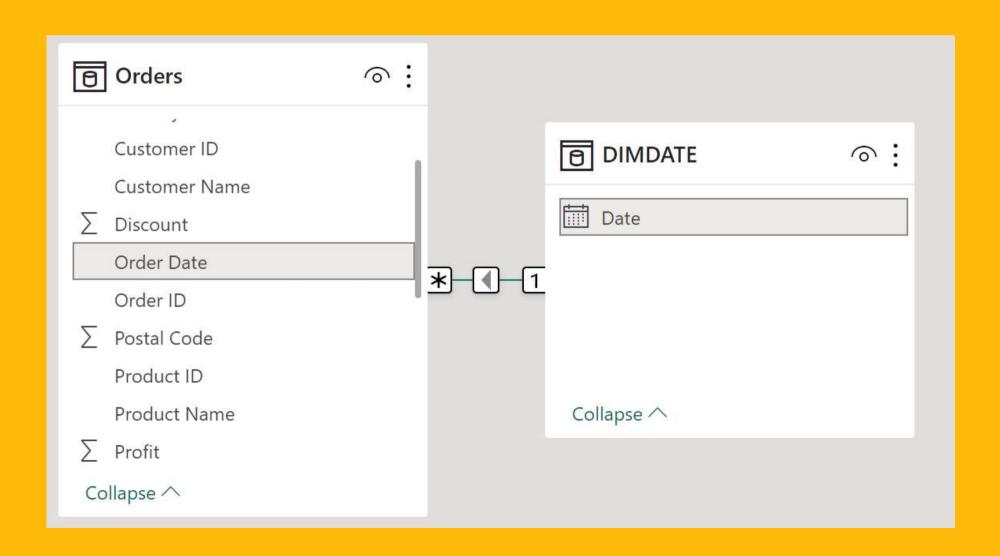
Need to calculate Dynamic Ranking for the date hierarchy, rank need to be calculated based on total sales with in the hierarchy





Step 1

Need to establish proper relationship between the date dimension table and sales fact table.





Step 2

Create Hierarchical Rank measure

Dax: HIERARCHICAL RANK = VAR _RYEAR=RANK(DENSE,ALLSELECTED (DIMDATE[Date].[Year]),ORDERBY([TOTAL SALES], DESC)) VAR _RQUARTER=RANK(DENSE,ALLSELECTED(DIMDATE[Date].[Quarter],DIMDATE[Date]. [QuarterNo]),ORDERBY([TOTAL SALES],DESC)) VAR _RMONTH=RANK(DENSE,ALLSELECTED(DIMDATE[Date].[Month],DIMDATE[Date]. [MonthNo]),ORDERBY([TOTAL SALES],DESC)) VAR _RDAY=RANK(DENSE,ALLSELECTED(DIMDATE[Date].[Day]),ORDERBY([TOTAL SALES], DESC)) RETURN IF (ISINSCOPE (DIMDATE [Date]. [Day]),_RDAY,IF(ISINSCOPE(DIMDATE[Date]. [Month]), RMONTH, IF (ISINSCOPE (DIMDATE [Date [].[Quarter]), _RQUARTER, _RYEAR)))

NOTE: Hierarchy logic order need to be from bottom



Step 3

Take a matrix visual with date hierarchy from data dimension table as rows, total sales and Hierarchical rank measure as values

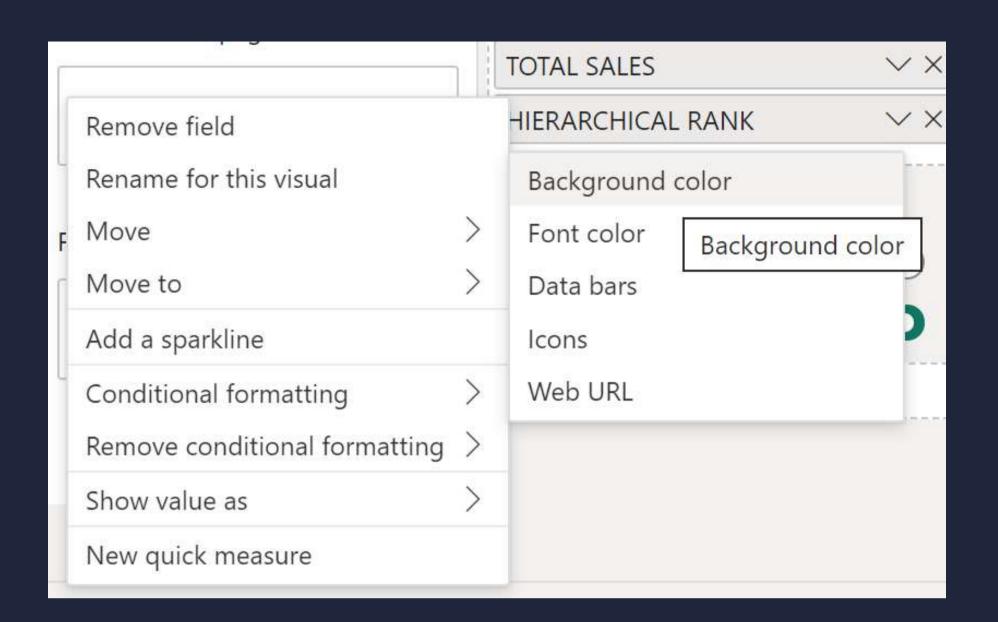
Step 4

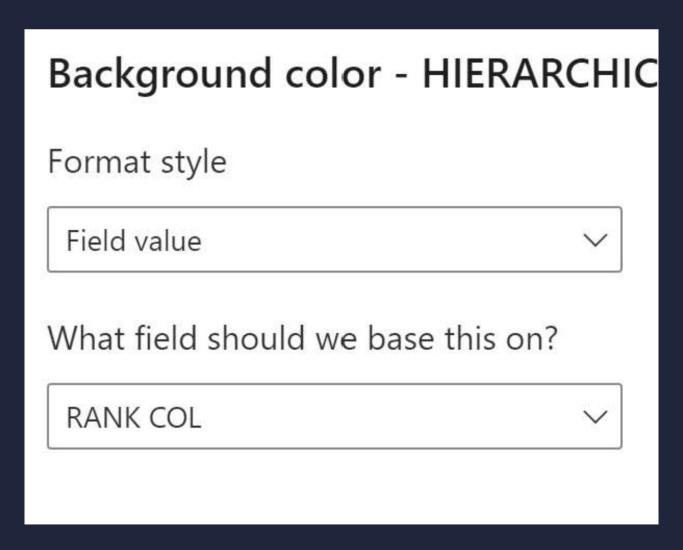
To conditionally format the background color of the rank use color measure

RANK COL =
IF(ISINSCOPE(DIMDATE[Date].[Day]),"LIGHT
PINK",IF(ISINSCOPE(DIMDATE[Date].
[Month]),"LIGHT
YELLOW",IF(ISINSCOPE(DIMDATE[Date].
[Quarter]),"LIGHT GREEN","LIGHT BLUE")))

NOTE: Hierarchy logic order need to be from bottom









Output

Desired output with Dynamic Ranking for the date hierarchy based on total sales (Ranking with in the hierarchy)

Year	TOTAL SALES	HIERARCHICAL RANK
□ 2020	691,607.62	1
□ Qtr 4	192,686.96	1
	76,184.29	1
⊞ November	60,134.96	2
⊕ October	56,367.71	3
□ Qtr 1	185,536.40	2
	86,169.03	1
	58,509.06	2
	40,858.31	3
□ Qtr 3	167,170.97	3
	61,365.69	1
⊞ September	55,055.36	2
⊞ July	50,749.92	3
□ Qtr 2	146,213.29	4
⊞ May	62,653.16	1
⊞ June	47,723.18	2
⊞ April	35,836.95	2
□ 2022	635,126.20	2
□ Qtr 4	188,214.43	1



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