--TASK 15

--Task 15 **ROUGH WORK[DOUBLE CHECK FOR ERRORS]** - **work [ REMOVE $ SIGN AND THEN EXECUTE THE QUERIES.]**

for example the query

**SELECT \* FROM FactSales$;**

Should be typed as

**SELECT \* FROM FactSales; \*/**

Try the following queries and have a look at the results. What are the differences between them? Do they do what you expect?

PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output.

SELECT ProductName, Pancake, Loaf, Bread, Dansih, Tart, [Sweet Bagel], [Savoury Bagel]

FROM (

SELECT ProductType, ProductName, CategoryID

FROM UOP.DBO.DimProduct$) up

PIVOT (Count(CategoryID) FOR ProductType IN (Pancake, Loaf, Bread, Dansih, Tart, [Sweet Bagel], [Savoury Bagel])) AS pvt

ORDER BY ProductName

SELECT ProductType, Breads, Bagels, Doughnuts, Pies, Pastries

FROM (

SELECT ProductType, ProductName, CategoryRange

FROM UOP.DBO.DimProduct$ inner join uop.dbo.DimCategory$ on uop.dbo.DimCategory$.CategoryID = UOP.DBO.DimProduct$.CategoryID) up

PIVOT (Count(ProductName) FOR CategoryRange IN (Breads, Bagels, Doughnuts, Pies, Pastries)) AS pvt

ORDER BY ProductType

--task 15 exercise

/\*Now your turn.

1. Pivot the FactWaste table the new columns must be the different types of action taken and you must sum the amount per month in the rows. (Tip: Find the different types of actions taken first)

\*/

SELECT \*

FROM (

SELECT FORMAT(FullDate, 'yyyy-MM') AS WasteMonth, Amount, ActionTaken

FROM UOP.dbo.FactWaste$) up

PIVOT (SUM(AMOUNT) FOR ActionTaken IN (charity, discard, gift, [personal use],test)) as pvt

--to check

select sum(amount) from uop.dbo.FactWaste$ where ActionTaken = 'charity' and FORMAT(FullDate, 'yyyy-MM') = '2019-01';