



# **ESCUELA POLITECNICA NACIONAL**



## **FACULTAD DE INGENIERÍA DE SISTEMAS**

### **ISWD433-FUNDAMENTOS DE SISTE MAS DE LA INFORMACIÓN**

#### **TÍTULO: 04.Hands-On Lab—Creating Calculated Columns in Power Pivot**

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**PROFESOR: Andrés Larco**



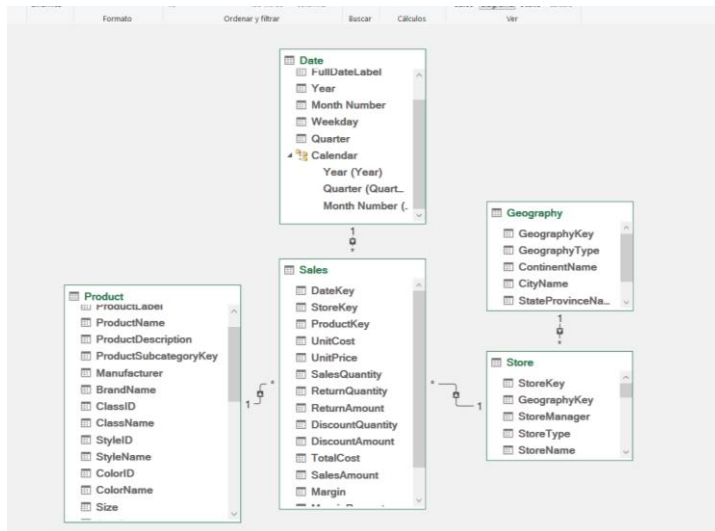
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1. In the Lab Starters folder, open the LabChap4Starter.xlsx file. This file contains a data model consisting of sales data, product data, and store data.

2. View the model in the Power Pivot window using the diagram view

Diagrama Entidad Relación:



3. Switch to data view in the Power Pivot Window and select the Sales table.

4. After the SalesAmount column, click on the Add Column. In the formula bar above the table, enter the following to calculate margin:

$$=[SalesAmount] - [TotalCost]$$

5. Right click on the new column and rename it Margin.

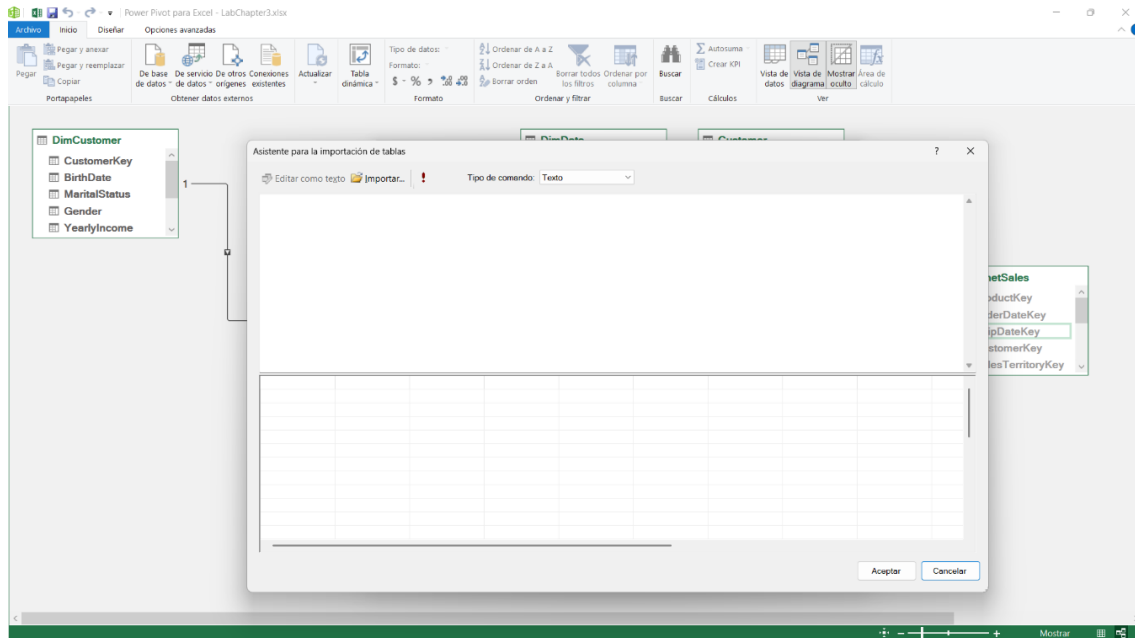
6. Repeat this procedure to create a MarginPercent column with the following formula:

$$=[Margin]/[SalesAmount]$$



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*Asignamos los valores en las columnas correspondientes*



7. In the Data View window, select the Date table.

8. Use the Date functions to create a Year, Quarter, Month, Month Number, and Weekday column.

9. Using the Year, Quarter, and Month columns, create a Calendar hierarchy in the Date table.

10. In the Data View window, select the Product table.

11. Insert a Weight Label column with the following formula:

`=if(ISBLANK([Weight]),BLANK(), [Weight] & " " & [WeightUnitMeasureID])`

12. Next to ProductSubcategoryKey, create a ProductCategory column using the related function:

*En pantalla se muestran los resultados obtenidos en la ejecución de las instrucciones :*



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Product...	Size	UoM	Code	Product Name	List Pri...	Size	Size Ran...	Weight	Color	Category	Subcategory	Agregar columna
1				Sport-100 Helmet, Red	33.6442	NA			Red	Accessories	Helmets	
2				Sport-100 Helmet, Red	33.6442	NA			Red	Accessories	Helmets	
3				Touring Pedal	80.99	NA			Silver/...	Components	Pedals	
4				Sport-100 Helmet, Red	34.99	NA			Red	Accessories	Helmets	
5				Sport-100 Helmet, Black	33.6442	NA			Black	Accessories	Helmets	
6				Sport-100 Helmet, Black	33.6442	NA			Black	Accessories	Helmets	
7				Sport-100 Helmet, Black	34.99	NA			Black	Accessories	Helmets	
8				Sport-100 Helmet, Blue	33.6442	NA			Blue	Accessories	Helmets	
9				Sport-100 Helmet, Blue	33.6442	NA			Blue	Accessories	Helmets	
10				Sport-100 Helmet, Blue	34.99	NA			Blue	Accessories	Helmets	
11				AWC Logo Cap	8.6442	NA			Multi	Clothing	Caps	
12				AWC Logo Cap	8.6442	NA			Multi	Clothing	Caps	
13				AWC Logo Cap	8.99	NA			Multi	Clothing	Caps	
14				LL Fork	148.22	NA			NA	Components	Forks	
15				ML Fork	175.49	NA			NA	Components	Forks	
16				HL Fork	229.49	NA			NA	Components	Forks	
17				LL Headset	34.2	NA			NA	Components	Headsets	
18				ML Headset	102.29	NA			NA	Components	Headsets	
19				HL Headset	124.73	NA			NA	Components	Headsets	
20				LL Mountain Handlebars	40.4909	NA			NA	Components	Handlebars	
21				LL Mountain Handlebars	44.54	NA			NA	Components	Handlebars	
22				ML Mountain Handleb...	56.2909	NA			NA	Components	Handlebars	
23				ML Mountain Handleb...	61.92	NA			NA	Components	Handlebars	

=RELATED('ProductCategory'[ProductCategoryName])

13. Using the related function, create a ProductSubcategory column.

14. Hide the ProductCategory and ProductSubcategory tables from the client tools.

15. Switch to the Store table and create a Years Open column with the following formula.

=IF(ISBLANK([CloseDate]),TODAY(),[CloseDate]),0)

16. Create a LifetimeSales column using the following formula.

=SUMX(RELATEDTABLE(Sales),Sales[SalesAmount])

Administrar	Medidas	KPI	Agregar a modelo de datos	Detectar	Configuración
Modelo de datos	Cálculos	Tablas	Relaciones		
A1					
1	Etiquetas de fila				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12	Total general				
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Campos de tabla dinámica

Activo Todas

Seleccionar campos para agregar al informe:

gro

No hay coincidencias

Arrastrar campos entre las áreas siguientes:

Filtros	Columnas
Filas	Valores
SalesTerritoryKey	

☐ Aplazar actualización del diseño Actualizar

17. Save and close the Excel file