

ESCUELA POLITECNICA NACIONAL



FACULTAD DE INGENIERÍA DE SISTEMAS

ISWD433-FUNDAMENTOS DE SISTE MAS DE LA INFORMACIÓN

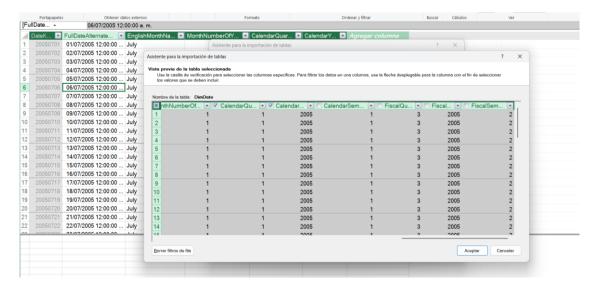
TÍTULO: 03. Hands-On Lab—Creating a Data Model in Power Pivot

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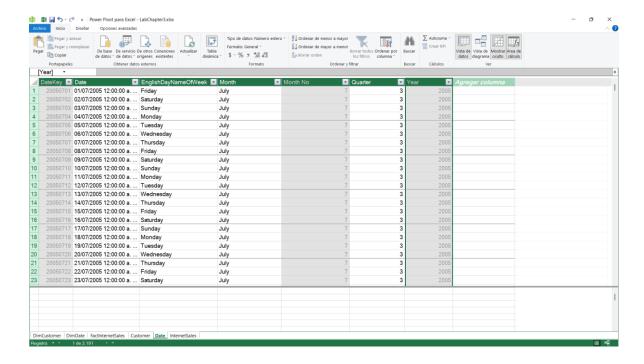
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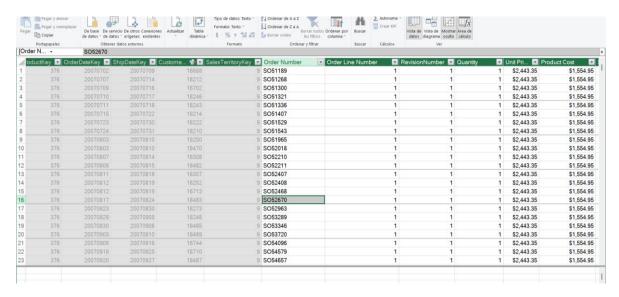
- 1. Open Excel 2013 and create a new file called LabChapter3.xlsx.
- 2. Using the Table Import Wizard in the Power Pivot data model, connect to the Adventureworks.accdb file in the LabStarters folder.
- 3. Select the tables and fields listed and import the data.



4. In the data view mode of the Power Pivot Model Designer, rename and hide the columns indicated in the table. To hide a column, right click on it and select Hide From Client. Tools in the context menú.

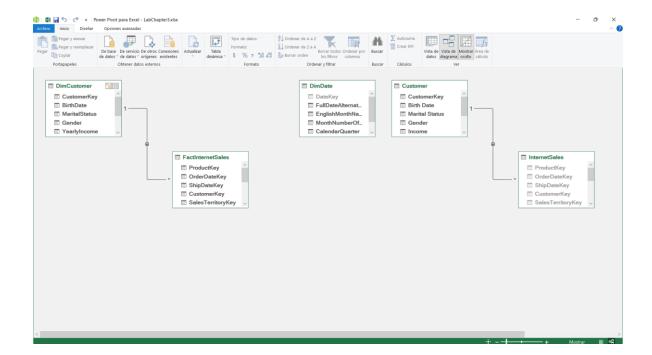


Se renombrarán las columnas correspondientes y se ocultarán los datos solicitados en la práctica.



5. Switch the Power Pivot window to diagram view. You should see the Date, Customer, and Internet Sales. The Customer table and the Internet Sales table have a relationship defined between them. This was discovered by the Table Import Wizard.

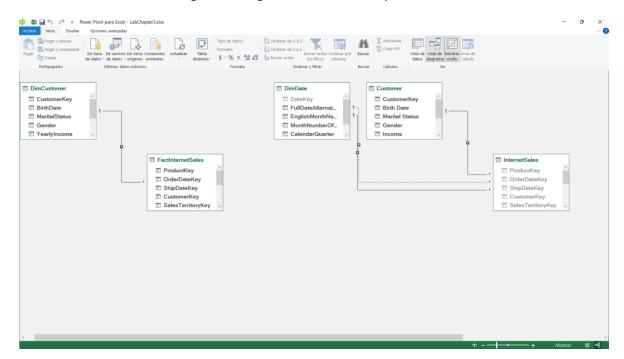
A continuación, se muestra la visualización de las tablas y las relaciones lógicas que estas mantienen entre sí.





- 5. Switch the Power Pivot window to diagram view. You should see the Date, Customer, and Internet Sales. The Customer table and the Internet Sales table have a relationship defined between them. This was discovered by the Table Import Wizard.
- 6. Drag the DateKey from the Date table and drop it on the OrderDateKey in the Internet Sales table. Similarly, create a relationship between the DateKey and the ShipDateKey. Double click on this relationship to launch the Edit Relationship window (see Figure 3-18). Try to make this an active relationship. You should get an error because you can only have one active relationship between two tables in the model.

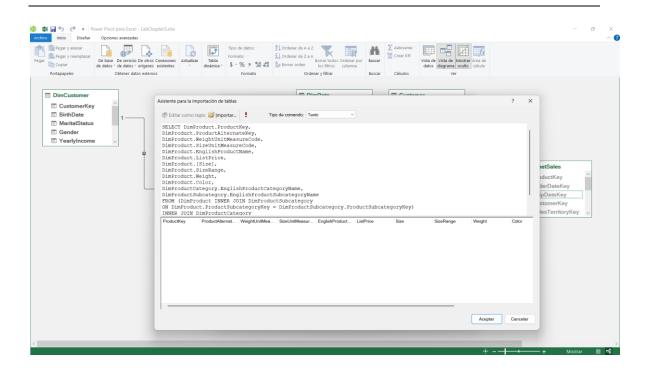
Se lleva a cabo con una configuración lógica de las entidades y sus relaciones.



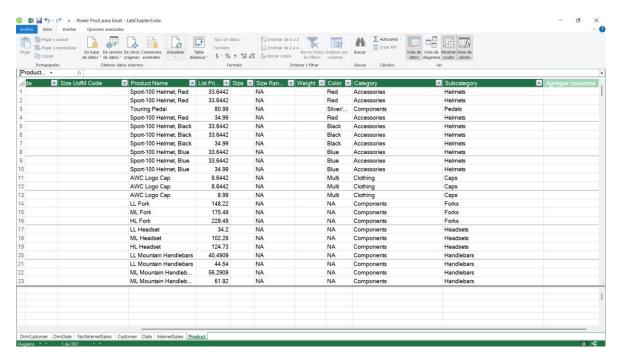
- 7. On the Home tab of the Power Pivot Model Designer window, click the Existing Connections button. You should see the connection to the Adventureworks.acdb created earlier. Open this connection and select the query option for importing the data.
- 8. In the Specify A SQL Query window, change the query friendly name to Product and click the Design button.
- 9. In the designer click the Import button. Open the ProductQuery.txt file in the lab starter folder. Click the red exclamation mark (!) to run the query (see Figure 3-19). This query combines data (i.e., denormalizes) from the Product, ProductCategory, and ProductSubcategory tables.

Se realiza una búsqueda utilizando SQL mediante la ejecución del siguiente script.





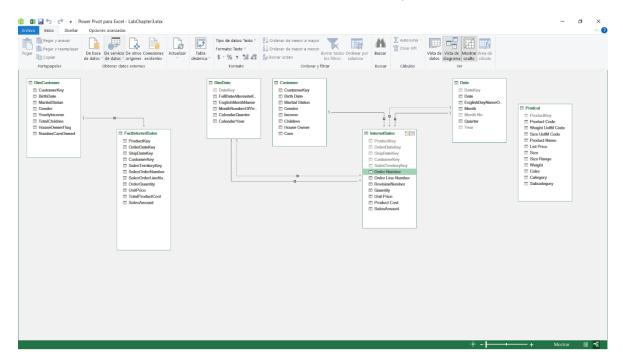
- 10. After verifying that you are getting data, click the OK button and the Finish button on the next screen.
- 11. After importing the data, hide the ProductKey and update the column names as follows:



12. Create a relationship between the Internet Sales and the Product tables using the ProductKey. Your final diagram should look like Figure 3-20.



Se muestran las nuevas relaciones establecidas con las tablas importadas.



- 13. To create a linked table, enter the data shown in Figure 3-21 into an empty spread sheet tab in Excel.
- 14. Select the cells, right click, and in the Quick Analysis context menu, select the Table tab and click the Table button (see Figure 3-22). In the Table Tools Design tab, rename the table SalesTerritory.
- 15. On the Power Pivot tab, click the Add To Data Model button. Once the table is in the model, change the name to Sales Territory, hide the SalesTerritoryKey, and create a relationship to the Internet Sales table.
- 16. To create a hierarchy, select the Sales Territory table in the Power Pivot window's diagram view and click the Create Hierarchy button. Drag and drop the Sales Territory Group, Country, and Region on the hierarchy. Rename the hierarchy Sales Territory (see Figure 3-23).
- 17. Create a Calendar hierarchy named Calendar in the Date table using Year, Quarter, and Month.
- 18. Switch to the data view in the designer and select the Date Table tab. Select the Month column and set its Sort By Column to the Month No. column.
- 19. When done save and close Excel

Se presenta la tabla dinámica que muestra las interacciones entre las tablas ingresadas.



