

Project 10. 75 Points

1. This is the second to last Project will test to see if you are a true Worksheet Formula, DAX Formulas and Power Query Ninja :)
2. The goal is to solve the problem three ways:
 - a. Worksheet Formula way
 - b. DAX Formula with Data Model PivotTable way
 - c. Power Query way
3. The source tables are in the Excel Workbook file named "BI348-Project10-SourceTables.xlsx".
4. The Excel Tables, which you can use for your DAX / Data Model and Power Query Solutions are on the Worksheet named "ExcelTablesfor DAXandPowerQuery", and they look like this:

fInvoiceHeader = Invoice Fact Table = Invoice Level/Grain Dimention Table for fLineItemInvoiceDetail One Side for fLineItemInvoiceDetail Fact Table						fLineItemInvoiceDetail = Line Item Invoice Detail Fact Table = Line Item Level/Grain Fact Table for fInvoiceHeader Fact Table for dProduct			
Date	Invoice Num	SalesRepID	Shipping C	Invoice Disc		Invoice Num	ProductID	Quanti	Unit Price
5/12/19	5814	6	487	249		5814	1	87	17.47
5/12/19	5815	3	336.5	186		5814	2	59	20.21
5/12/19	5816	5	911	856		5814	3	51	22.46
5/13/19	5817	6	411	340		5814	4	52	25.46
5/13/19	5818	5	769.5	562		5815	4	186	20.29
5/13/19	5819	2	295.5	61		5816	1	277	13.16
5/13/19	5820	5	598.5	591		5816	2	246	14.22
5/14/19	5821	6	119	521		5816	3	276	15.8
5/14/19	5822	1	59.5	155		5816	4	57	25.46
5/14/19	5823	5	238	602		5817	2	105	18.87
						5817	3	235	15.8
						5818	2	270	14.22
						5818	3	65	22.46
						5818	4	227	17.91
						5819	1	61	18.71
						5820	2	119	18.87
						5820	3	285	15.8
						5820	4	187	20.29
						5821	1	285	13.16
						5821	2	236	14.22
						5822	3	155	18.72
						5823	1	112	17.47
						5823	2	243	14.22
						5823	3	65	22.46
						5823	4	182	20.29

dDate = Date Dimenstion/Lookup Table Dimention Table for fInvoiceHeader One Side				dProduct = Dimension/Lookup Table Dimention Table for fLineItemInvoiceDetail One Side				dSalesRep = Dimension/Lookup Table Dimention Table for fInvoiceHeader One Side		
Date	MonthNum	Month	Yes	ProductID	Name	Category	Weight oz.	SalesRepID	Sales Rep	Region
1/1/19	1	Jan	2019	1	Bellen	Beginner	5	1	Sioux Radcoolinator	North
1/2/19	1	Jan	2019	2	Carlota	Freestyle	3.5	2	Abdi Cruz	Noth
1/3/19	1	Jan	2019	3	Sunbell	Beginner	6.5	3	Chantel Davis	East
1/4/19	1	Jan	2019	4	Quad	Freestyle	3	4	Tyrone Thomas	East
1/5/19	1	Jan	2019					5	Gigi Smith	West
1/6/19	1	Jan	2019					6	Tan Pham	West
1/7/19	1	Jan	2019							
1/8/19	1	Jan	2019							
1/9/19	1	Jan	2019							
1/10/19	1	Jan	2019							
1/11/19	1	Jan	2019							
1/12/19	1	Jan	2019							

5. The Spreadsheet tables for your Excel solutions are the same, but on a sheet where the data has not been converted to Excel Tables. These tables are on the Excel Worksheet named "TablesForWorksheetFormulas".

6. Your goal is to create a report that shows Product in the Row Area and Totals for Sales, Shipping and Discount.

The methods that you learn in video #23 can be used here. Here is of the three reports that I created:

a. Excel Worksheet Formulas:

Product	Toatl Sales	Total Shipping	Total Discounts
Bellen	12013.76	761.352868	914.1245828
Carlota	19568.17	1205.949437	926.863973
Quad	18101.66	1012.602516	869.8620897
Sunbell	19543.66	1143.095179	1514.649354
Totals	69227.25	4123	4225.5

b. DAX and Data Model PivotTable:

Name	Total Sales	Total Discounts	Total Shipping Costs
Bellen	\$12,013.76	\$761.35	\$914.12
Carlota	\$19,568.17	\$1,205.95	\$926.86
Quad	\$18,101.66	\$1,012.60	\$869.86
Sunbell	\$19,543.66	\$1,143.10	\$1,514.65
Grand Total	\$69,227.25	\$4,123.00	\$4,225.50

c. Power Query in Power BI Desktop and a Matrix Visual:

Name	Total Sales	Total Shipping Costs	Total Discounts
Bellen	\$12,013.76	\$914.12	761.35
Carlota	\$19,568.17	\$926.86	1,205.95
Quad	\$18,101.66	\$869.86	1,012.60
Sunbell	\$19,543.66	\$1,514.65	1,143.10
Total	\$69,227.25	\$4,225.50	4,123.00

7. You can create your solutions in one, two or three files. You can use Excel or Power BI Desktop.

8. When you are done upload the files to the Project Upload link in Canvas for Project 10.