Creating Simple Queries with Tasks – Part 2

1. Filtering and Sorting Data

2. Creating New Columns

3. Grouping and Summarizing Data

4. Joining Tables

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Which products have profits exceeding \$3,500?



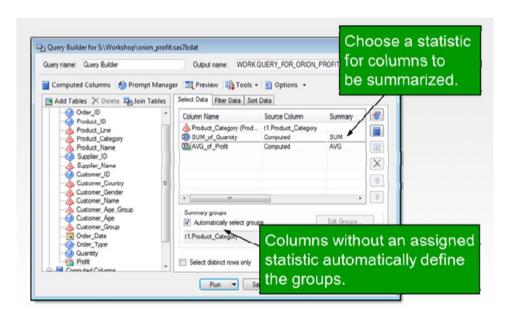
Product ID	Order Date	Profit	Quantity
240200100136	8/20/2018	\$1,028.25	3
240200100136	10/1/2018	\$342.75	1
240200100136	5/5/2018	\$1,018.05	3
240200100136	11/6/2018	\$1,028.25	3
240200100136	8/9/2018	\$685.50	2
		\$4,102.80	12
240300300078	7/20/2018	\$345.90	2
240300300078	7/24/2018	\$172.95	1
		\$518.85	3







The Select Data tab can be used to group and summarize data.





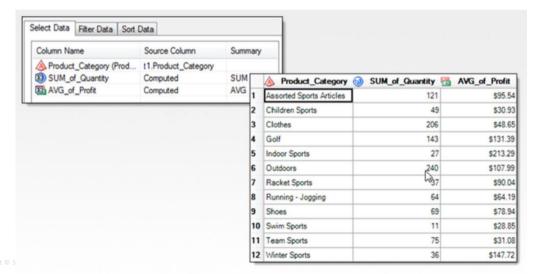
Statistics include the following:

AVG, MEAN	STD (standard deviation)
COUNT, FREQ, N (number nonmissing values)	STDERR (standard error of the mean)
CSS (corrected sum of squares)	SUM
CV (coefficient of variation)	SUMWGT (sum of WEIGHT variable values)
MAX or MIN	T (Student's <i>t</i> -value testing the hypothesis that the population mean is zero)
NMISS (number of missing values)	USS (uncorrected sum of squares)
PRT (two-tailed p-value for Student's t statistic)	VAR (variance)
RANGE (range of values)	



Grouping by Column Values

- The query results includes one row for every unique value of
 - The group column or combination of columns
 - A calculated statistics for the summarized column or columns



4.04 Activity

- 1. Use any data source in the current project and open the Query Builder.
- 2. Click the **Filter Data** tab and notice the layout.
- 3. Return to the **Select Data** tab and add any two columns.
- 4. For one of the columns on the Select Data tab, select **COUNT** in the Summary field.
- 5. Return to the **Filter Data** tab.

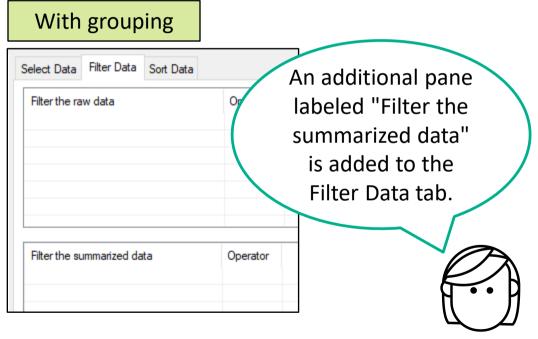
How does the Filter Data tab change after a query includes grouped data?



4.04 Activity – Correct Answer

How does the Filter Data tab change after a query includes grouped data?

Without grouping Select Data Filter Data Sort Data Filter the raw data Operator





Summarizing and Filtering by Groups

This demonstration illustrates grouping data, and then summarizing and filtering grouped data.



Questions?



