

Group By

- Available only in Transformation and Not Add Column
- Used to create aggregated data based on a categorical field
- In order to add multiple columns in the new table use Advanced Grouping

Group By

Specify the columns to group by and one or more outputs.

☐ Basic ☒ Advanced

InterviewerID

Grade

Add grouping

New column name

No. of Participants

Average Duration

Add aggregation

Operation

Count Rows

Average

Column

Min_SurDurratation

Exercise – AW_Product_Fact

- Create a Table to show avg price for each Product SubCategory
- Create a table to show the number of product based on colours
- Create a table to show avg price and avg cost of each Product subcategory

Pivoting and Unpivoting

- Used when data structure needs to be modified for better analysis
- Pivoting – transforms row data into column
- Unpivoting – transforms column data into row
- Pivoting and Unpivoting recognizes unique values unlike Transpose

	Age Group	Month	Male	Female
1	15-20 y	01-01-2017	2235	
2	15-20 y	01-02-2017	3400	
3	15-20 y	01-03-2017	4970	
4	15-20 y	01-04-2017	4500	
5	21-25 y	01-01-2017	4039	
6	21-25 y	01-02-2017	2792	
7	21-25 y	01-03-2017	4765	
8	21-25 y	01-04-2017	3127	

	Age Group	Month	Attribute	Value
1	15-20 y	01-01-2017	Male	2235
2	15-20 y	01-01-2017	Female	2022
3	15-20 y	01-02-2017	Male	3400
4	15-20 y	01-02-2017	Female	4628
5	15-20 y	01-03-2017	Male	4970
6	15-20 y	01-03-2017	Female	1003
7	15-20 y	01-04-2017	Male	4500
8	15-20 y	01-04-2017	Female	2363
9	21-25 y	01-01-2017	Male	4039
10	21-25 y	01-01-2017	Female	3501
11	21-25 y	01-02-2017	Male	2792
12	21-25 y	01-02-2017	Female	3852
13	21-25 y	01-03-2017	Male	4765
14	21-25 y	01-03-2017	Female	4405
15	21-25 y	01-04-2017	Male	3127
16	21-25 y	01-04-2017	Female	2492

Exercise

AW_Product_Fact

- a. Create a Discount Column – 90% of the Price
- b. Round the columns with Price and cost

AdventureWorks_Sales_2015-

- a. Find the total number of Unique products sold
- b. Find the total number of unique customers
- c. Find the Average Sales and Total Sales Value
- d. Find the day of the week the product was sold
- e. Create a col to classify the day of the week as weekday or weekend

Merging Queries

- It works like Vlookup in excel where we are getting information from one table to another using a common column.
- It add columns to an existing table
- But it is better to create relationships and let the tables be separate
- This process may lead to creation of a lot of redundant data

Appending Queries

- It adds rows to the existing table
- It is like Union of tables
- The tables we want to append should have the same structure and same data type
- If we have a folder in which all the files which we need to append are kept, we can choose Folder option from GET Data option. Using the Folder option the advantage is that if any file is added or removed it gets updated when the power BI file is refreshed.
- The tables used in the queries – Merging or Appending can't be deleted as they are being used.

Exercise

- Create a combined table for all the sales files