

The following tasks should be fulfilled by you:

- a) Disable "Auto Date/Time" in the options to prevent automatic date formatting. You can find the option as shown in lecture 12 (<https://www.udemy.com/powerbi-complete-introduction/learn/v4/t/lecture/7036512?start=95>) => Just untick the box below "Time intelligence"
- b) Open the Query Editor and use the advanced editor to connect Power BI to the source files. You learned how to do this in the first module
- c) Go back to the data model and open the data view to create a new table. In this table, create a calendar (the name of the formula should also be *Calendar*) for the period we have stock data for (04. January 2010 until 11. May 2017). With that, a column named *Date* should be created automatically
Hint: Remember the calendar function we learned and use the modeling ribbon
- d) Format the calendar. Only the date should be visible in the columns (no weekday)
- e) With the calendar being formatted, we can turn "Auto Date/Time" back on again (see point a) => Tick the box below "Time intelligence"
- f) Create a new column named *Year*. This column should retrieve the corresponding year out of the column *Date* in the *Calendar* table
- g) Create a new column named *Quarter*. This column should retrieve the corresponding quarter out of the column *Date* in the *Calendar* table
- h) Create a new column named *Year-Quarter*. In this column, you should combine the column *Year* and the column *Quarter* with a space in between (i.e. the result should look like this: *2010 Qtr. 1*)
Hint: Remember the Concatenate formula we learned
- i) Create a new column named *Weekday-Nr* which should retrieve the corresponding number of the weekday of the column *Date* in the *Calendar* table
Hint: We didn't talk about that specific formula. But if you take a look at the official documentation, you should be able to create this column: Also make sure that the weeks are numbered as follows: 1 = Monday, 2 = Tuesday, 3 = Wednesday and so on: <https://msdn.microsoft.com/en-us/library/ee634550.aspx>
- j) Go to the relationship view and create a 1:1 (one to one) relationship between the columns *Date* in the tables *Apple-Combined* and *Calendar*
- k) Create a *:1 (many to one) relationship between the columns *Weekday-Nr* in the tables *Calendar* and *Weekdays*
- l) Go back to the data view and open the *Apple-Combined* table. Create a calculated column named *End-vs-Start* which calculates the % change (also formatted as %) between the column *Price-End of day* and the column *Price-Start of day*
Hint: We learned how to divide the values of two columns and how to format columns
- m) Create a measure named *Measure-AveragePrice-End*, which calculates the average of the values in the column *Price-End of day*
- n) Create two measures named *Measure-MinimumPrice* and *Measure-MaximumPrice* which calculate the minimum/maximum value of the column *Price-End of day*

Have fun in the data model and see you in the solution video.