The Full Report for Power BI with Screenshots and Description

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Chapter 1: Basic Analysis on one Primary file, asx200.

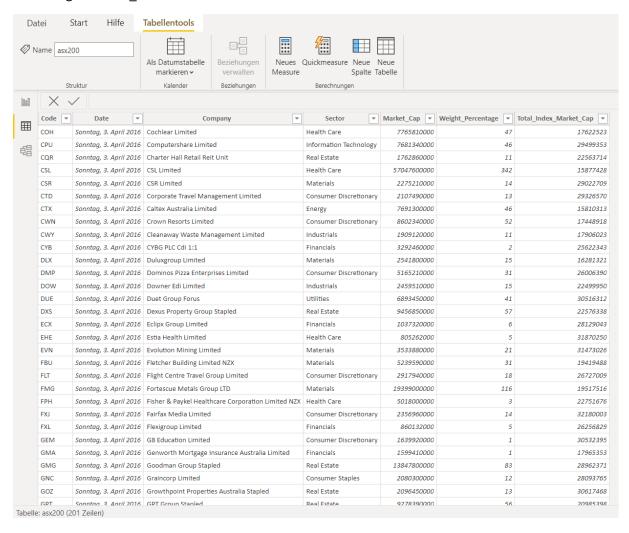
Section 1: Importing the Data

This is after importing the CSV file.

Nar	ne asx20	00							
			Als Datumstabelle markieren •	Beziehungen Neues verwalten Measure		Neue abelle			
	Str	uktur	Kalender	Beziehungen	Berechnungen				
	XV	/							
C	ode 🔻	Date 🔻	Co	mpany	Sector *	Market Cap 🔻	Weight Percentage *	Null Cl 🔻	Total Index Market Cap
C	ОН	Sonntag, 3. April 2016	Cochlear Limited		Health Care	7765810000	47	Null	1762252
C	PU	Sonntag, 3. April 2016		ed	Information Technology	7681340000	46	Null	294993
C	QR	Sonntag, 3. April 2016	Charter Hall Retail Re	it Unit	Real Estate	1762860000	11	Null	225637
С	SL	Sonntag, 3. April 2016	CSL Limited		Health Care	57047600000	342	Null	158774.
С	SR	Sonntag, 3. April 2016			Materials	2275210000	14	Null	290227
С	TD	Sonntag, 3. April 2016	Corporate Travel Man	agement Limited	Consumer Discretionary	2107490000	13	Null	293265
С	TX	Sonntag, 3. April 2016	Caltex Australia Limite	ed	Energy	7691300000	46	Null	158103
С	WN	Sonntag, 3. April 2016	Crown Resorts Limite	d	Consumer Discretionary	8602340000	52	Null	174489
С	WY	Sonntag, 3. April 2016	Cleanaway Waste Ma	nagement Limited	Industrials	1909120000	11	Null	179060
С	YB	Sonntag, 3. April 2016	CYBG PLC Cdi 1:1		Financials	3292460000	2	Null	256223
D	LX	Sonntag, 3. April 2016	Duluxgroup Limited		Materials	2541800000	15	Null	162813.
D	MP	Sonntag, 3. April 2016	Dominos Pizza Enterp	rises Limited	Consumer Discretionary	5165210000	31	Null	260063
D	ow	Sonntag, 3. April 2016	Downer Edi Limited		Industrials	2459510000	15	Null	224999
D	UE	Sonntag, 3. April 2016	Duet Group Forus		Utilities	6893450000	41	Null	305163
D	XS	Sonntag, 3. April 2016	Dexus Property Group	Stapled	Real Estate	9456850000	57	Null	225763
Е	СХ	Sonntag, 3. April 2016	Eclipx Group Limited		Financials	1037320000	6	Null	281290
Е	HE	Sonntag, 3. April 2016	Estia Health Limited		Health Care	805262000	5	Null	318702
E	VN	Sonntag, 3. April 2016	Evolution Mining Limi	ted	Materials	3533880000	21	Null	314730
F	BU	Sonntag, 3. April 2016	Fletcher Building Limi	ted NZX	Materials	5239590000	31	Null	194194
F	LT	Sonntag, 3. April 2016	Flight Centre Travel G	roup Limited	Consumer Discretionary	2917940000	18	Null	267270
F	MG	Sonntag, 3. April 2016	Fortescue Metals Gro	up LTD	Materials	19399000000	116	Null	195175
F	PH	Sonntag, 3. April 2016	Fisher & Paykel Health	hcare Corporation Limited NZX	Health Care	5018000000	3	Null	227516
E	XJ	Sonntag, 3. April 2016	Fairfax Media Limited		Consumer Discretionary	2356960000	14	Null	321800
E	XL	Sonntag, 3. April 2016	Flexigroup Limited		Financials	860132000	5	Null	262568
G	EM	Sonntag, 3. April 2016	G8 Education Limited		Consumer Discretionary	1639920000	1	Null	305323
G	MA	Sonntag, 3. April 2016	Genworth Mortgage I	nsurance Australia Limited	Financials	1599410000	1	Null	179653
G	MG	Sonntag, 3. April 2016	Goodman Group Stap	led	Real Estate	13847800000	83	Null	289623
G	NC	Sonntag, 3. April 2016	Graincorp Limited		Consumer Staples	2080300000	12	Null	280937
-	OZ	Sonntag, 3. April 2016	Growthpoint Properti	es Australia Stapled	Real Estate	2096450000	13	Null	306174

Section 2: Clearing the Data

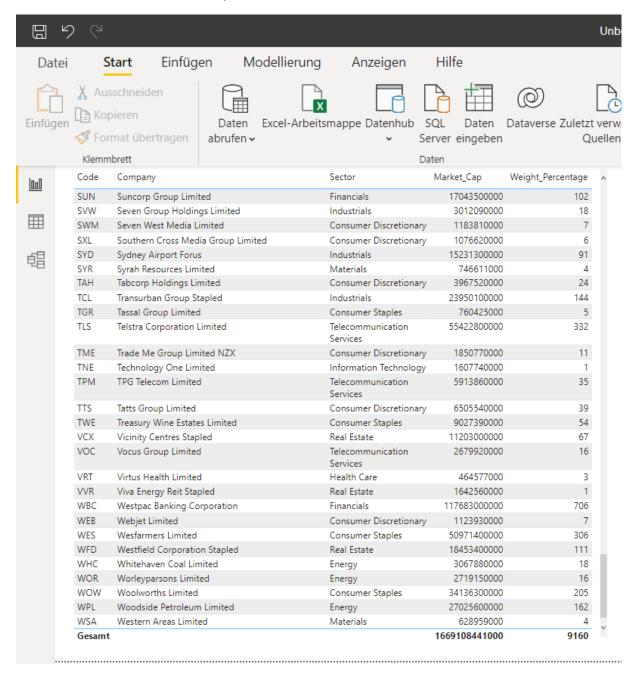
Removing the "Null CI" column as it is not in need.



Section 3: Table Preparation

Providing a table of some necessary columns, showing the sum of market cap and weight after sorting them out.

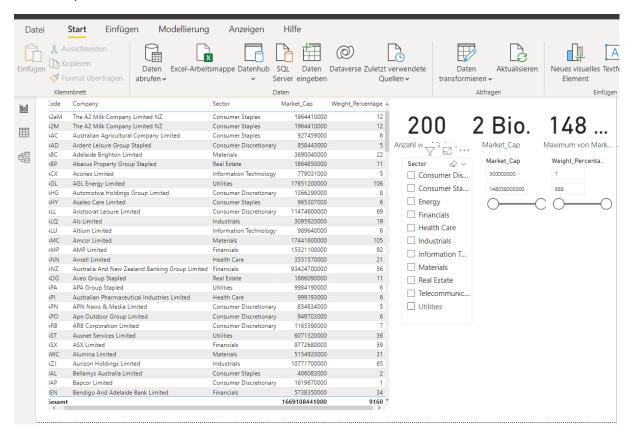
Then as we need all data to look at, click the "don't summarize" button.



Section 4: Adding Cards

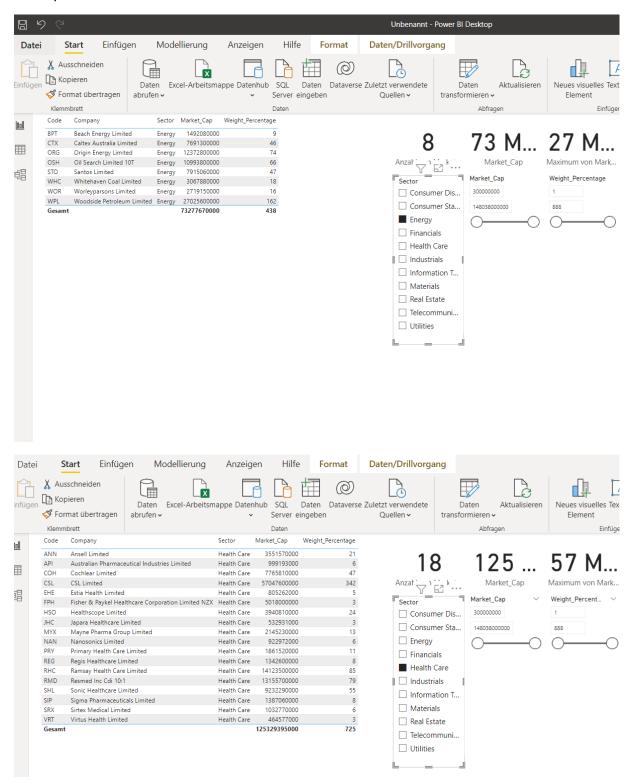
Adding three cards of Market Cap and three slicers of Sector, Market Cap, and Weight.

In this screenshot, the whole data have been selected, so the figures in the cards are in total. It shows 200 companies, about 2 trillion Dollar market cap, and 148 billion Dollars as the maximum market cap.



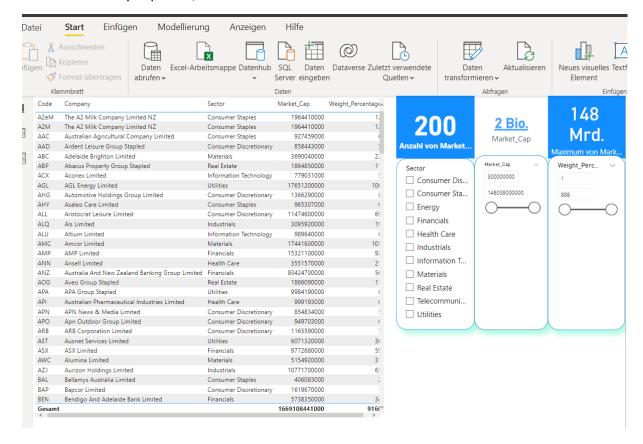
Section 5: Sectors Selection

At this stage, it is important to be able to focus on Energy and Health Care sectors as these are directly related to the environment and humans.



Section 6: Adding Some Effects

To make it visually improved, let us use some of the effects.



Section 7: Final part, Queries

Query 1:

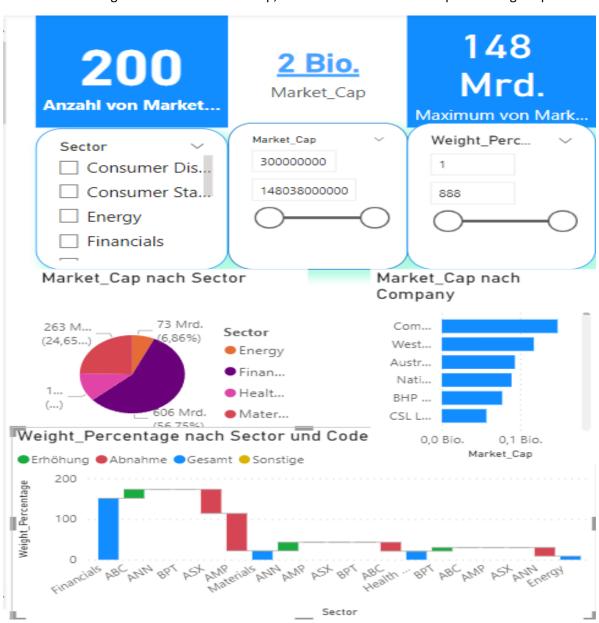
What is the comparison of four sectors, Energy, Health Care, Materials, and Finances, including some companies from each one in a visualization manner?

Answer:

To solve this problem, it is desirable to choose some codes/companies from the relevant sectors. To do this process we can either sort the column of the sector in the main table or choose the desired sectors from the sector slicer.

Then it will be completed by applying a pie chart of the four mentioned sectors, a horizontal bar chart of all companies, and a waterfall chart of four sectors with some of their companies.

The Finance sector is the largest with more than half of the group individually. After that is the Materials with about one-fourth, while the energy sector contains the least amount of all, a bit less than 7 percent. In the bar chart, it is significant that the company named commonwealth bank of Australia is the largest in terms of market cap, and the second one is Westpac Banking Corporation.



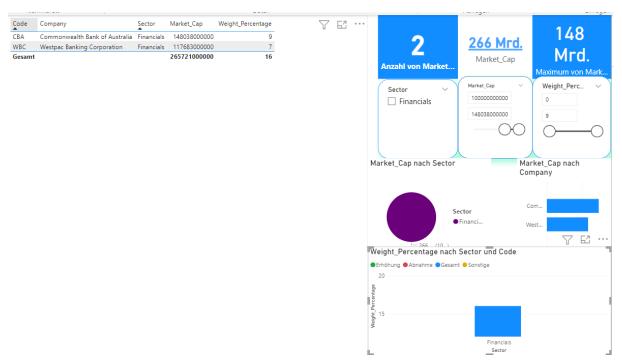
Query 2:

What is the result of the last analysis for only those market caps greater than 100 billion dollars?

Answer:

To do that, simply change the bottom limitation in the slicer of Market Cap to this number and then choose the companies in the waterfall chart.

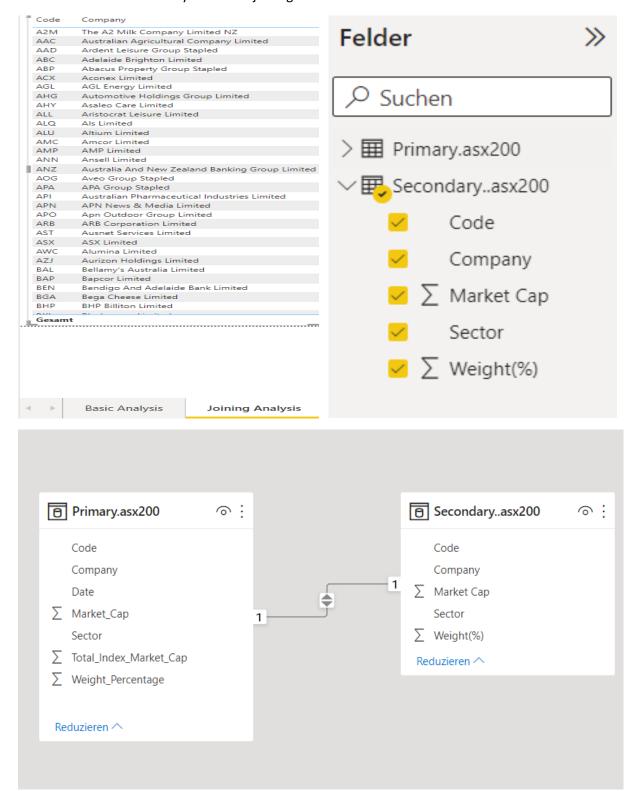
The result would be only two companies that were named in the last query, from the Finance sector.



Chapter 2: Joining Analysis on two files, primary.asx200 and a secondary one.

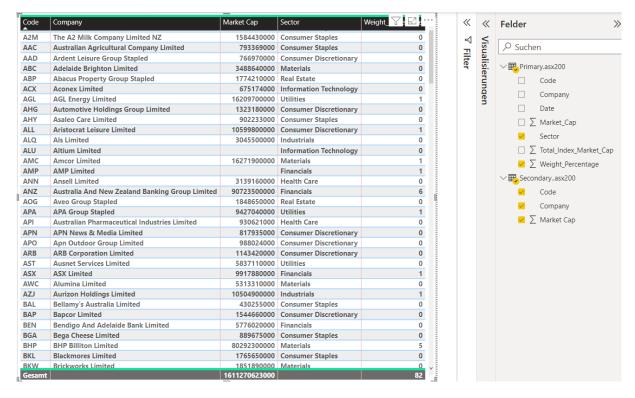
Section 1: Preparation

After importing the second file, and changing the names of sheets and files, it is viewed that the Power BI itself automatically chose the joining criteria based on Code columns.



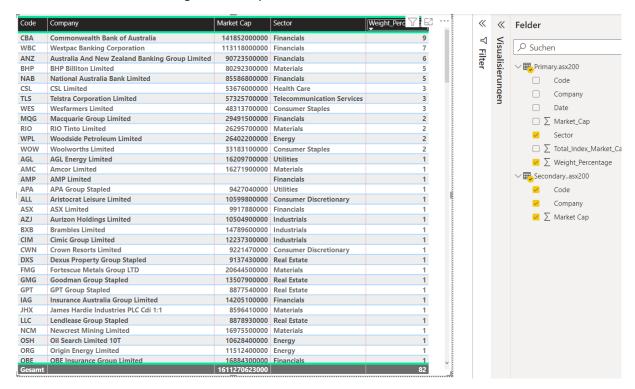
Section 2: Joining the two Datasets.

The secondary data does not contain the sector and weight columns, as they have been deliberately canceled out. However, by joining them and using the missing columns from the primary dataset, it is possible to predict the missing information based on the complete table.

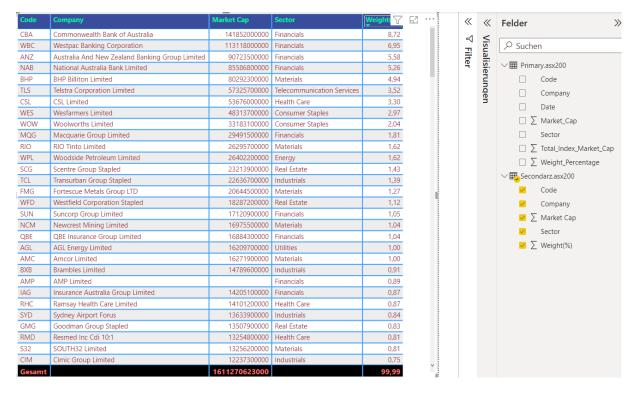


Section 3: Assessing the power of Power BI

By comparing the last joining by sorting the weight with the real weights of the secondary table of asx200 we can check to what extent the software is accurate. To do that firstly the joining table is sorted out based on the weight column, presented below.

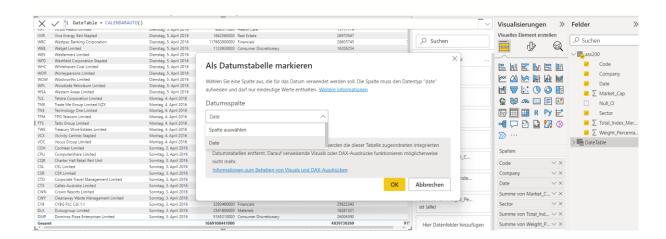


The second screenshot is the secondary table with complete data, including the original columns of weight and sector. The result is great, for example, the prediction for CBA, WBC, and ANZ is just a little more than the real ones, 9 for 8.72, 7 for 6.95, and 6 for 5.58 respectively.



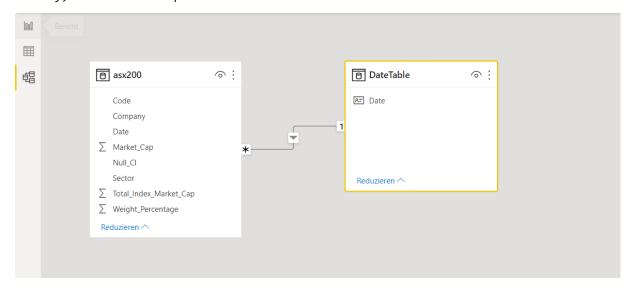
Section 4: Adding a New Column and Table

In the function bar by use of this command, "DateTable = CALENDARAUTO()", the new table as a calendar is provided and then it is added as a date column.



Section 5: Joining

To join the new date table to the date column of the main table which had been loaded firstly, the relationship builder is utilized.



Now to add to the table just, simply, select the new table.

