



Excel Olympics  
YOUR TURN TO EXCEL

# Perfect Data Model

	DAT	BID	ASK	PRO	QUA
JAN	€ 241.00	€ 551.00	€ 504.00	339	820
FEB	€ 955.00	€ 50.00	€ 136.00	225	784
MAR	€ 116.00	€ 410.00	€ 930.00	223	934
APR	€ 362.00	€ 186.00	€ 107.00	437	555
MAY	€ 933.00	€ 890.00	€ 801.00	934	386
JUN	€ 700.00	€ 579.00	€ 691.00	933	974
JUL	€ 622.00	€ 610.00	€ 833.00	691	575
AUG	€ 537.00	€ 773.00	€ 934.00	801	645
SEP	€ 59.00	€ 300.00	€ 437.00	107	941
OCT	€ 877.00	€ 538.00	€ 504.00	930	802
NOV	€ 173.00	€ 311.00	€ 223.00	374	715
DEC	€ 608.00	€ 599.00	€ 339.00	104	557

Presenter  
Gašper Kamenšek

# Gašper Kamenšek

Microsoft Excel MVP - Slovenia

Me in numbers

Speaker @ 50+ conferences



Trainer with 900+ courses



Trainer with 7000+ attendees



Excel Olympics



EXCEL UNPLUGGED

Microsoft  
CERTIFIED

Solutions Associate

BI Reporting

Microsoft

Office Specialist Master

Office 2016

Microsoft

Office Specialist Expert

Excel 2016







## Power BI project

Power BI Project always includes **multiple KPI's**. The entire tool is set up in a way that calls out for the usage of **multiple data sources** that we then slice and dice by the same dimensions. And this leads to **twenty or more** reports, **countless measures**, and a **maintenance nightmare**. **Can we improve on this?**





DEMO





# Demo – Query Append & Unpivot

- Excel Source
  - AC & PL separate Sheets
- Power Query
  - Append AC & PL
  - Unpivot - KPI dim
  - CalendarAuto
    - Qtr
    - Weeks



# Demo - Goals

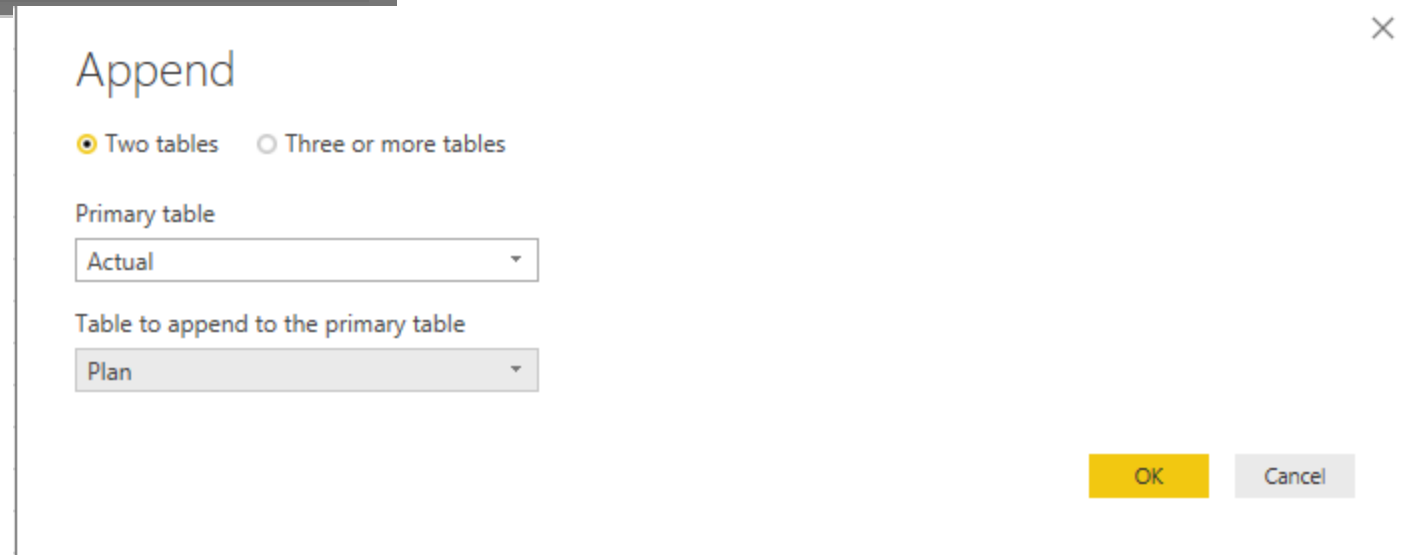
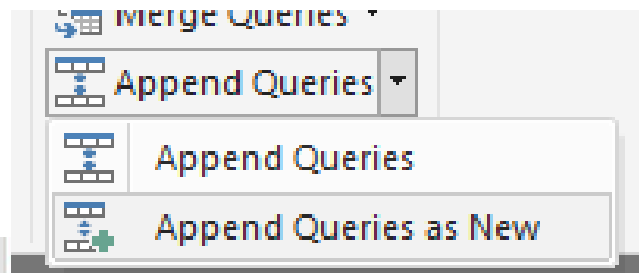
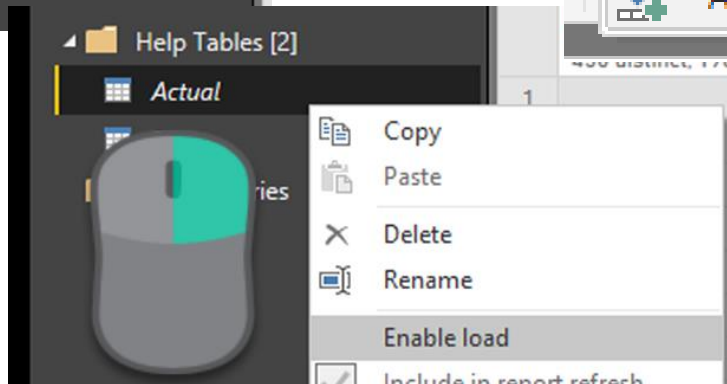
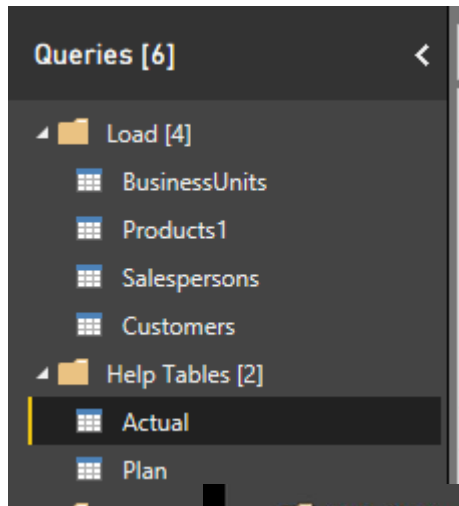
## Power Query

- Append
- Unpivot

## New Columns

- Scenario
- KPI

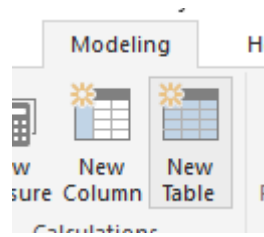




= Table.Combine({Actual, Plan})



```
Calendar = ADDCOLUMNS ( CALENDARAUTO ();
"Year"; FORMAT([Date]; "yyyy");
"MonthNo"; MONTH([Date]);
"Month"; FORMAT([Date];"MMM");
"Quarter"; FORMAT([Date];"\QQ");
"YearMonth"; FORMAT([Date];"YYYY-MM");
"WeekdayNo"; WEEKDAY([Date];2); //1-Sun..Sat, 2-Mon..Sat
"Weekday"; FORMAT([Date];"ddd");
"WeekNo"; WEEKNUM([Date]; 2);
"Week"; "W" & WEEKNUM([Date]; 2) )
```



Calendar = ADDCOLUMNS ( CALENDARAUTO ();

```

1  "Year"; FORMAT([Date]; "yyyy");
2  "MonthNo"; MONTH([Date]);
3  "Month"; FORMAT([Date];"MMM");
4  "Quarter"; FORMAT([Date];"\QQ");
5  "YearMonth"; FORMAT([Date];"YYYY-MM");
6  "WeekdayNo"; WEEKDAY([Date];2); //1-Sun..Sat, 2-Mon..Sat
7  "Weekday"; FORMAT([Date];"ddd");
8  "WeekNo"; WEEKNUM([Date]; 2);
9  "Week"; "W" & WEEKNUM([Date]; 2) )
```

Date	Year	MonthNo	Month	Quarter	YearMonth	WeekdayNo	Weekday	WeekNo	Week
1. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	5	Fri	1	W1
2. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	6	Sat	1	W1
3. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	7	Sun	1	W1
4. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	1	Mon	2	W2
5. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	2	Tue	2	W2
6. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	3	Wed	2	W2
7. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	4	Thu	2	W2
8. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	5	Fri	2	W2
9. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	6	Sat	2	W2
10. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	7	Sun	2	W2
11. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	1	Mon	3	W3
12. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	2	Tue	3	W3
13. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	3	Wed	3	W3
14. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	4	Thu	3	W3
15. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	5	Fri	3	W3
16. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	6	Sat	3	W3
17. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	7	Sun	3	W3
18. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	1	Mon	4	W4
19. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	2	Tue	4	W4
20. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	3	Wed	4	W4
21. 01. 2016 00:00:00	2016	1	Jan	Q1	2016-01	4	Thu	4	W4



AC = CALCULATE(SUM(Sales[Value]);Sales[Scenario]="AC")

PL = CALCULATE(SUM(Sales[Value]);Sales[Scenario]="PL")



- Star schema
- Scenario column for AC, PL, FC...
- KPI Column for Net Sales, Gross Sales...
- Disconnected slicer Monthly | YTD
- Add Current Month, Current Year to Calendar



## KEY TAKEAWAYS