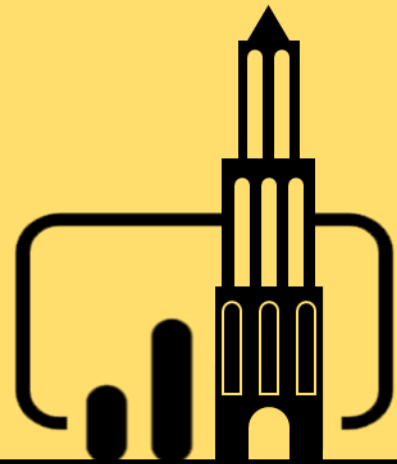




# Combineer verschillende databronnen in Power BI

Drs. Marnix Jansen RC

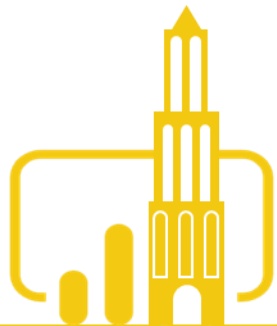


# MET DANK AAN ONZE PARTNERS

## Platinum Partners



## Gold Partner



# MET DANK AAN ONZE PARTNERS







## Silver Partners



## Community Partners

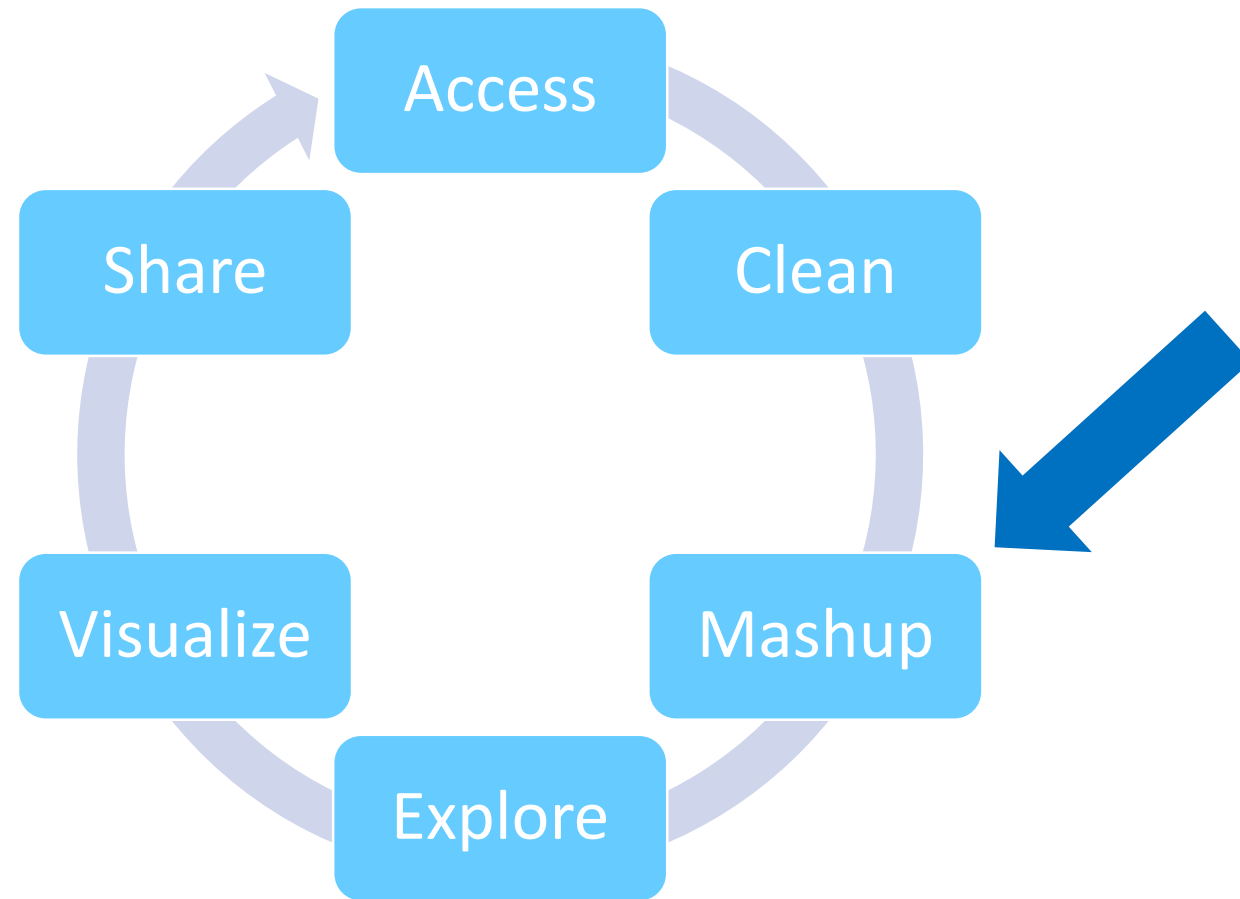


# Who am I?

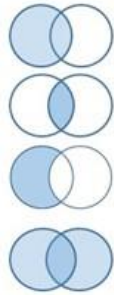
Education	Working Experience
Msc Finance	Consultant 
RC / EMFC	Senior Business Controller  
Lean GB	Senior Business Controller  
MCSA	Owner/Consultant 



# Context of joining tables



## Summary



M	DAX
Left Outer	NATURALLEFTOUTERJOIN
Inner	NATURALINNERJOIN INTERSECT
Left Anti	EXCEPT
Full Outer	CROSS-JOIN GENERATE GENERATEALL

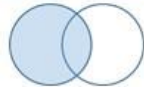
## Dummy data

Table1

Category	Value
A	1
B	2
C	3
D	4

Table2

Category	Value
B	5
C	6
D	7
E	8



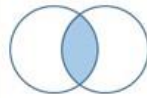
Query Editor (M): Left Outer (all from first, matching from second)

DAX : NATURALLEFTOUTERJOIN

Note 1: NATURALLEFTOUTERJOIN requires a relationship

Note 2: NATURALLEFTOUTERJOIN cannot handle shared names.

Category	Value	Category.1	Value.1
A	1		
B	2	B	5
C	3	C	6
D	4	D	7



Query Editor (M): Inner (only matching rows)

DAX 1: NATURALINNERJOIN

Note: NATURALINNERJOIN requires a relationship

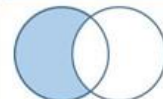
Note: NATURALINNERJOIN cannot handle shared names.

Category	Value	Category.1	Value.1
B	2	B	5
C	3	C	6
D	4	D	7

DAX 2: INTERSECT

Note: Intersect matches whole rows and is not based on a joined column. Join on Category Columns only:

Category
B
C
D



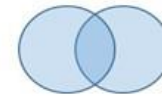
Query Editor (M): Left Anti (rows only in first)

Category	Value	Category.1	Value.1
A	1		

DAX: EXCEPT

Note: Except matches whole rows and is not based on a joined column. Join on Category Columns only:

Category
A



Query Editor (M): Full Outer (all rows from both)

Category	Value	Category.1	Value.1
A	1		
B	2	B	5
C	3	C	6
D	4	D	7
		E	8

DAX: CROSSJOIN

Note: CROSSJOIN cannot handle shared names.

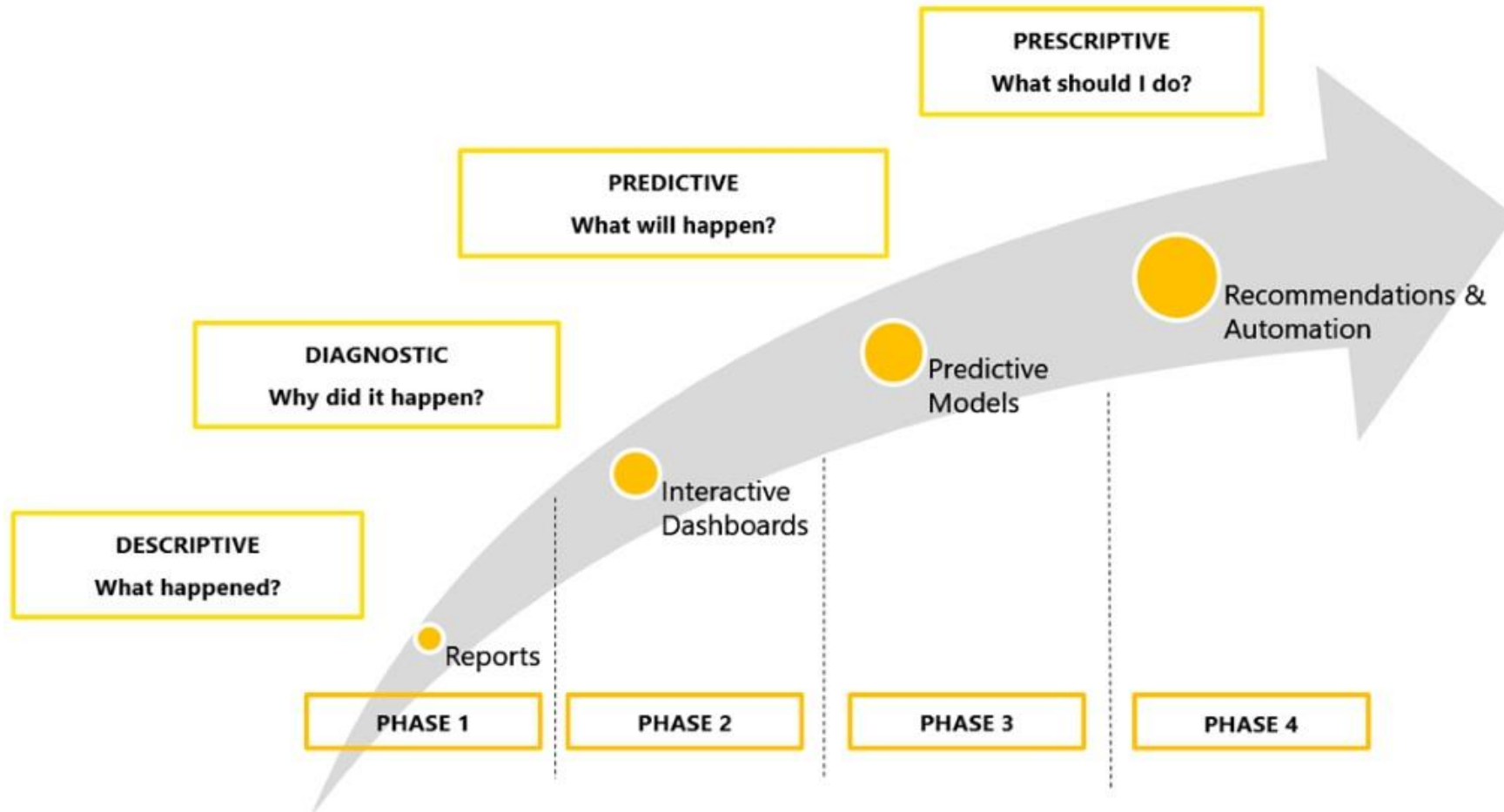
Note: GENERATE and GENERATEALL give the same results given this context

Category	Value	Category1	Value1
A	1	B	5
B	2	B	5
C	3	B	5
D	4	B	5
A	1	C	6
B	2	C	6
C	3	C	6
D	4	C	6
A	1	D	7
B	2	D	7
C	3	D	7
D	4	D	7
A	1	E	8
B	2	E	8
C	3	E	8
D	4	E	8

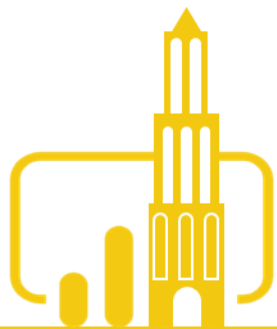


# DEMO

# Analytics evolution







Power BI Gebruikersdag 2019  
Jaarbeurs, Utrecht