# Combining data in Power Query

DATA TRANSFORMATION IN POWER BI



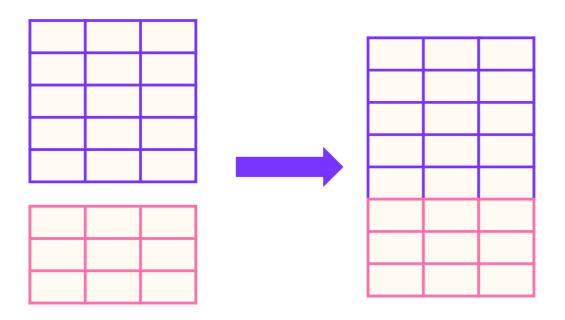
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#### Why combine data?

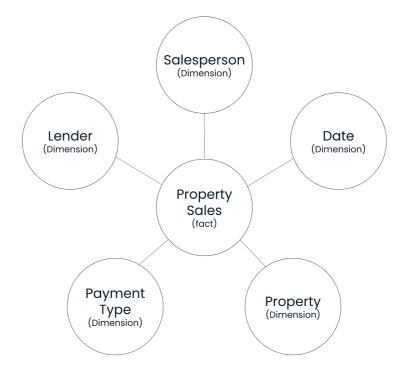
#### **Append Queries**

- Many separate files with similar data
- Data is too large to store in one file



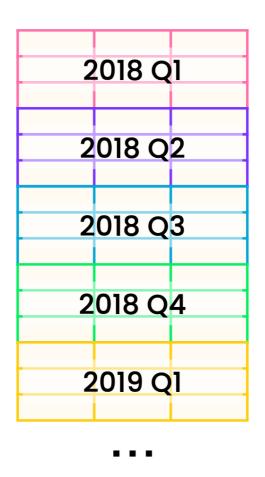
#### **Merge Queries**

- Tables have relationships between one or more columns
- Tables can be combined to make a "flat" structure

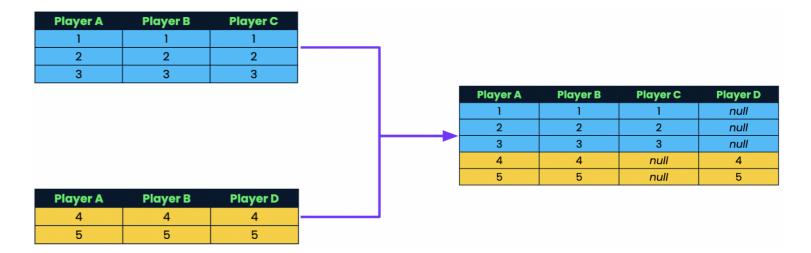


#### Appending data

- Append query will add rows to your table
  - "Vertically" combining queries
  - Column names must be the same

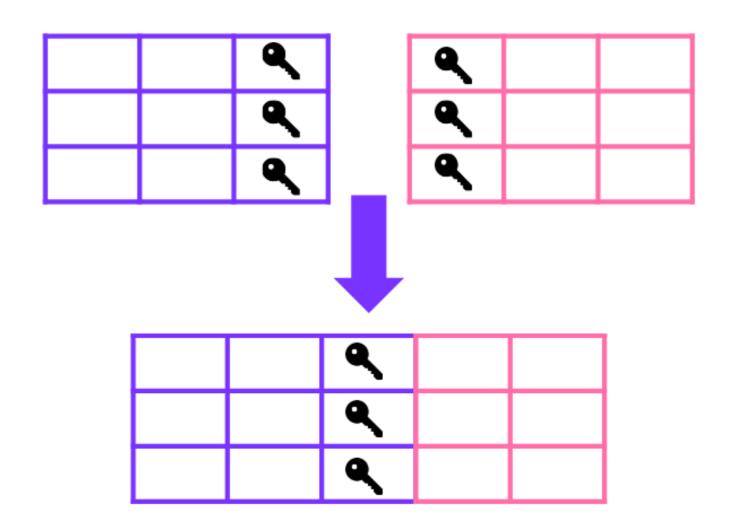


 Nulls will appear when there are different column names or number of columns



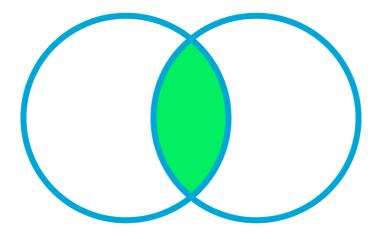
#### Merging data

- Merging queries will add columns to your table
  - "Horizontally" combining queries
  - Join tables through unique identifiers or keys



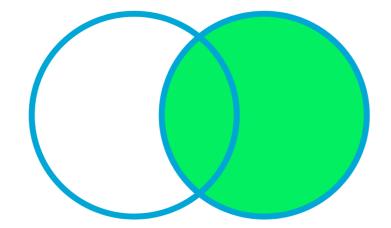
#### Merging data: types of joins

**Inner Join** 



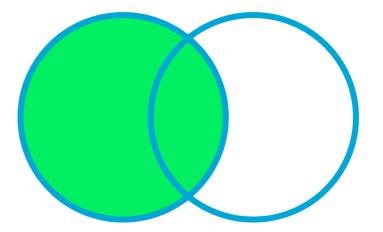
Returns matched rows only

Right Join



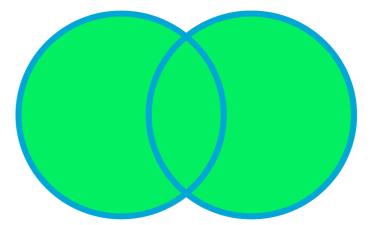
Returns matched rows and right table's rows

**Left Join** 



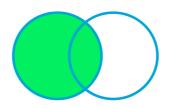
Returns matched rows and left table's rows

**Full Join** 



Returns matched rows and both tables' rows

#### Merging data: example of a left join



Sales Table		
Customer_id	Value	Product_id
1	\$80	123
2	\$5	456
3	\$500	789



Customer_id	Value	Product_id	Category	Product
				Running
1	\$80	123	Shoes	Shoes
2	\$5	456	Clothing	Socks
3	\$500	789	null	null

Product Table		
Product_id Category Product		
123	Shoes	Running Shoes
456	Clothing	Socks



#### Merging data: example of an inner join



Sales Table			
Customer_id	Value	Product_id	
1	\$80	123	
2	\$5	456	
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Customer_id	Value	Product_id	Category	Product
1	\$80	123	Shoes	Running Shoes
2	\$5	456	Clothing	Socks

Product Table			
Product_id Category Product			
123	Shoes	Running Shoes	
456	Clothing	Socks	



## Let's practice!

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# Merging and appending queries in Power Query

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## Let's practice!

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