Combining data in Power Query

DATA TRANSFORMATION IN POWER BI



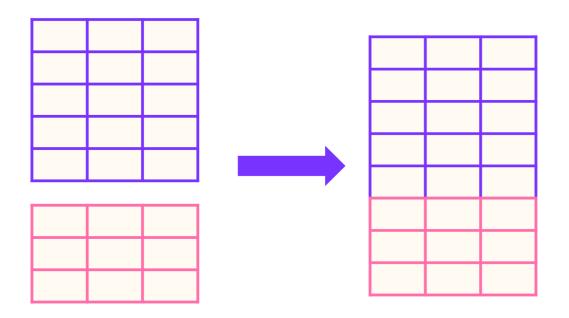
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Why combine data?

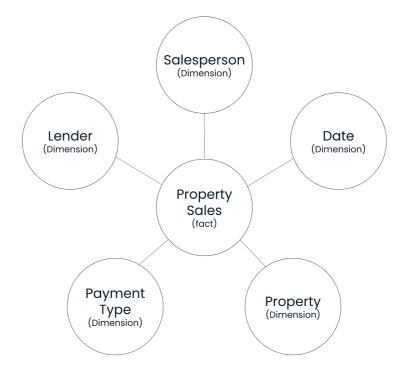
Append Queries

- 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

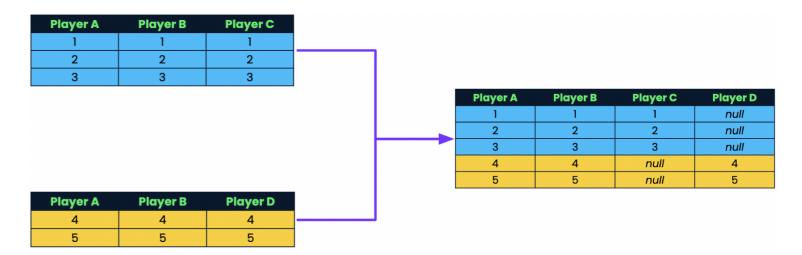


Appending data

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

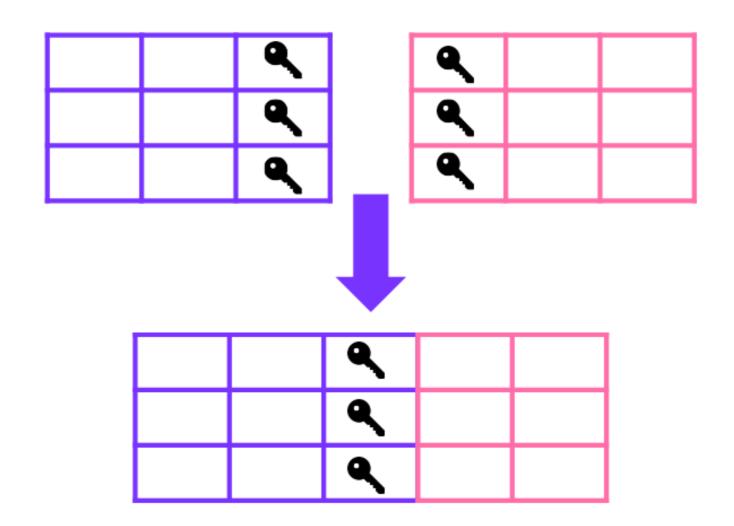


 Nulls will appear when there are different column names or number of columns



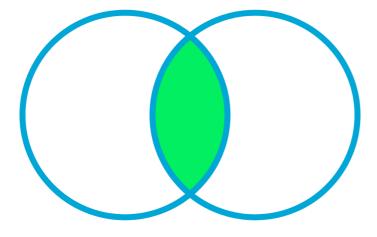
Merging data

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



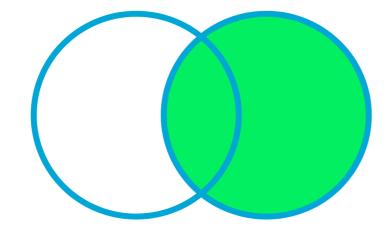
Merging data: types of joins

Inner Join



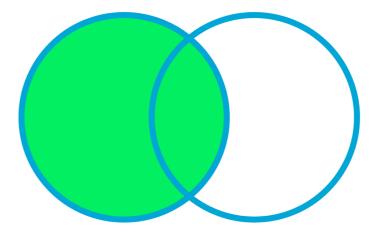
Returns matched rows only

Right Join



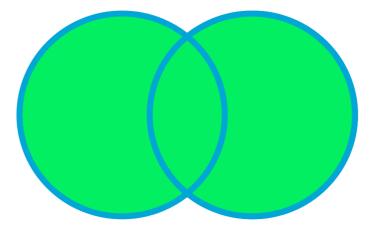
Returns matched rows and right table's rows

Left Join



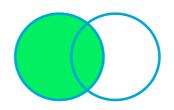
Returns matched rows and left table's rows

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	

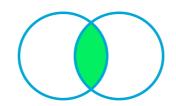


Customer_id	Value	Product_id	Category	Product
				Running
1	\$80	123	Shoes	Shoes
2	\$5	456	Clothing	Socks
3	\$500	789	null	null

Product_id	Category	Product	
123	Shoes	Running Shoes	
456	Clothing	Socks	

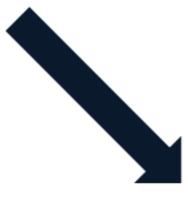


Merging data: example of an inner join



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

Clothing



Product Table		
Category	Product	
Shoes	Running Shoes	

Socks

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



Product_id

123

456

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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