

# Normalization

*Split an entity into more than one table. This process is called **normalization**.*

- Reduce Storage
- Avoid Data Duplication
- Improve Data Quality

Customers			Orders		
CustomerID	CustomerName	CustomerPhone	OrderID	CustomerName	CustomerPhone
100	Muisto Linna	XXX-XXX-XXXX	AD100	Noam Maoz	XXX-XXX-XXXX
101	Noam Maoz	XXX-XXX-XXXX	AD101	Noam Maoz	XXX-XXX-XXXX
102	Vanja Matkovic	XXX-XXX-XXXX	AD102	Noam Maoz	XXX-XXX-XXXX
103	Qamar Mounir	XXX-XXX-XXXX	AX103	Qamar Mounir	XXX-XXX-XXXX
104	Zhenis Omar	XXX-XXX-XXXX	AS104	Qamar Mounir	XXX-XXX-XXXX
105	Claude Paulet	XXX-XXX-XXXX	AR105	Claude Paulet	XXX-XXX-XXXX
106	Alex Pettersen	XXX-XXX-XXXX	MK106	Muisto Linna	XXX-XXX-XXXX

# Combine Table

Merge table
Append table

# Merge Table

Adds another Table as a column in your Table

New Column gets added at the End of the Table

# Append Table

Adds another Table as a Row in your Table.

New Rows gets added at the bottom of the Table.

# Merge vs Append

## Merge

- New Table gets added in the end
- Perform Operation on Column
- At least 1 common column is required and its data type should be same for performing the operation

## Append

- New Table gets added at the bottom
- Perform Operation on Row
- No of Columns, Header of Columns, their data types, and even the order of columns should be same for performing the operation

# Assignment 9: Merge Operations

## Perform

Perform Merge  
Operation on Product  
Table and Sub-  
Category table.

## Repeat

Repeat the same with  
Category table.

## Add

Now Add Salesperson  
Table in Employee  
Table.

# Append

2018

Items	Sales	Sales Year
Furniture	300000	2018
Electronics	500000	2018

+

2019

Items	Sales	Sales Year
Furniture	100000	2019
Electronics	200000	2019



Items	Sales	Sales Year
Furniture	300000	2018
Electronics	500000	2018
Furniture	100000	2019
Electronics	200000	2019

# Assignment 10: Append Operations

## Add

Add all the Sales Table  
in Power Query.

## Combine

Combine all the 4  
tables into one.

## Disable

Disable Load of all the  
unwanted tables.



# Assignment 11: Adding Folder

## Add

Add all the Sales Table  
in a Folder.

## Get Data

Bring the entire folder  
in Power Query and  
combine them.

## Delete

Delete Source Name  
column.



**THANK YOU...!!!**