# Case Study - US Healthcare - II

Steps	Example In this case		
Form a Hypothesis (Ho)	Billing Amount is Independent of Admission Type		
Alternate Hypothesis (Ha)	Emergency Admission is Costlier		
Test it	Use Average Billing By Admission Type		
Fail to reject Ho or Reject Ho	If the difference is Huge, we say Ha is likely true.		

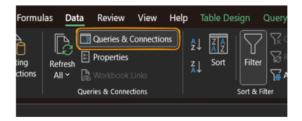
MEAN ∨ ∃ X ✓	fx =(E3-\$E\$5)/\$E\$5				
А	В	C	D	E	F
Row Labels	Average of Billing Amount		Admission Type	Average Of Billing Amount	% change in billing amount
Elective	23045.23706		Elective	23045.23706	-1%
Emergency	24289.12126		Emergency	24289.12126	=(E3-\$E\$5)/\$E\$5
Urgent	22737.09931		Urgent	22737.09931	-3%
<b>Grand Total</b>	23388.5746			23357.15255	

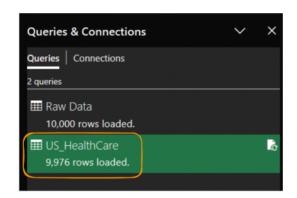
Admission Type	Average Of Billing Amount	% change in billing amount
Elective	23045.23706	-1%
Emergency	24289.12126	4%
Urgent	22737.09931	-3%
	23357.15255	

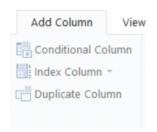
- -> Rejecting the Null Hypothesis[Ho] And Accepting the Alternative Hypothesis.
- -> Emergency Admission is Costlier.

## Data Enhancement

Age Bucket	Age Range
Young	<35
Middle	<60
Senior	>=60



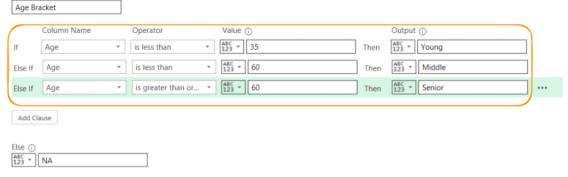




#### Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name



OK Cancel

✓ (Select All)
✓ Middle
✓ Senior
✓ Young

Demographic column

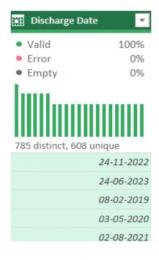
Merging Column of Age Bucket & Gender (X) - Transform table -> Overwrite the data, loosing important column.

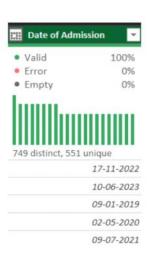
Rather, we will prefer ADD Column From Example to create a new column. I can also choose Merge Column under Add Column Tab.



- ✓ Middle-Female
- ✓ Middle-Male
- ✓ Senior-Female
- ✓ Senior-Male
- ✓ Young-Female
- ✓ Young-Male

## Duration of Stay





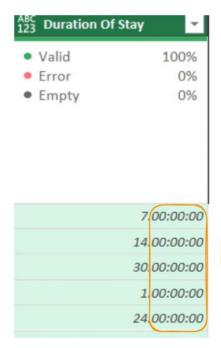
Cancel

### Custom Column

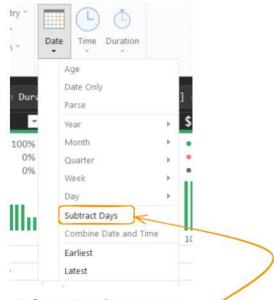
Add a column that is computed from the other columns.



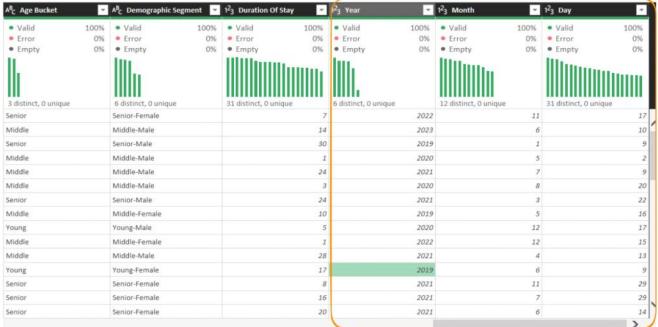
✓ No syntax errors have been detected.

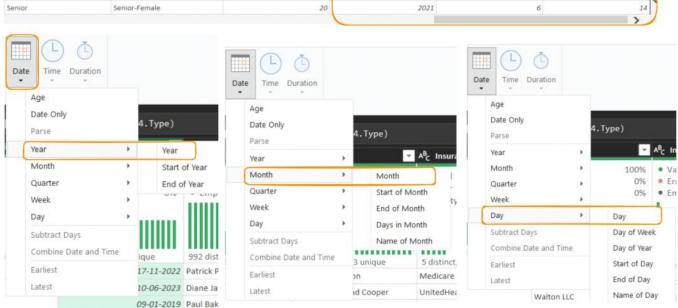


HH:MM:SS

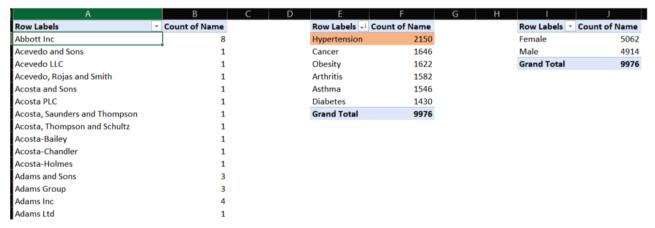


Select Discharge Date / and date of admission date





### sample\_sales\_analysis





Each Year , Count of patient is consistent, as 2018 having only 3 months data, and 2023 having 10 month.