

## Assignment - 8

## Data Modelling

**Objective** – Power BI Desktop, Cloud Service and End to End Workflow

**Use Case** – Product Information

**Source** – Incomplete Report

**Analytics** – Fill in three time intelligence functions in a report

**Report/Dashboard** – Product Insights

- Create 3 measures using the table - the screen shot below shows what these should show. Here are the measures you need to create:

No.	Measure	Thoughts
1	% of previous quarter	For each quarter, what percentage the total quantity sold constitutes of the same figure for the previous quarter.
2	YTD % of all previous year	For each time period, the cumulative year-to-date figure divided by total quantity sold for the whole of the previous year.
3	3-month moving average	The average of the total quantity sold for the previous 3 months.

The below is the snapshot of how the output should look like –

Time-intelligence functions				
YearNumber	Qty	% change	YTD % prev yr	3-month MA
November	1,000	115%	76338%	950
December	1,085	121%	89900%	1,012
<b>2017</b>				
<b>Q1</b>				
January	2,026	213%	28%	1,370
February	1,157	116%	44%	1,423
March	2,035	188%	73%	1,739
<b>Q2</b>				
April	1,344	66%	91%	1,512
May	644	56%	100%	1,341
June	648	32%	109%	879
<b>Q3</b>				
July	750	56%	120%	681
August	844	131%	131%	747
September	894	138%	144%	829
<b>Q4</b>				
October	877	117%	156%	872
November	706	84%	166%	826
December	655	73%	175%	746
<b>2018</b>				
<b>Q1</b>				
January	690	79%	5%	684
February	691	98%	11%	679
March	834	127%	18%	738

**Result** – Creating new measures and using DAX to calculate the time intelligence functions.