

## <u> Assignment - 7</u>

## Data Modelling

Objective – Power BI Desktop, Cloud Service and End to End Workflow
Use Case – Import list of the Car Sale's Data
Source – CarSales\_TablesNew

**Analytics** – Generating data as per the requirement **Report/Dashboard** – Car Sales

- Create a new Date Table using DAX.
- Create a new measure to find the quarterly sales.
- Create a new measure to find the yearly sales.
- Create a new table called Fact\_Sales containing the data as follows –

SalePrice ~	CostPrice 💌	SpareParts 💌	LaborCost 💌	TotalCost 💌	InvoiceDate 🔻	
\$1,10,000	125000	1950	752	122298	02 December 2013	
\$44,000	25000	1950	486	22564	01 January 2012	
\$45,000	37500	1950	486	35064	01 February 2012	
\$39,500	25000	1950	486	22564	01 March 2012	
\$44,000	37500	1950	486	35064	01 April 2012	
\$44,000	25000	1950	486	22564	01 May 2012	
\$39,500	37500	1950	486	35064	01 June 2012	
\$44,000	25000	1950	486	22564	01 July 2012	
\$44,000	37500	1950	987	34563	02 February 2013	
\$39,500	37500	1950	987	34563	02 June 2013	
\$44,000	25000	1950	987	22063	02 January 2013	
\$1,10,000	25700	1950	1250	22500	01 August 2012	
\$39,500	25000	1950	987	22063	02 March 2013	
\$1,10,000	37500	1950	987	34563	02 April 2013	
\$41,250	25700	1950	750	23000	02 March 2013	

This is just snapshot of the data, the data present in Fact\_Sales will be huge.

Adding a Time Dimension –
 Add these columns in the Date Table –

Column Title	Comments			
FullYear	Isolates the year as a four digit number			
Quarter	Displays the current quarter in short form			
QuarterNumbe	rDisplays the number of the current quarter. This is essentially used as a sort by column			
MonthFull	Displays the full name of the month			
MonthNumber	Isolates the number of the month in the year as one or two digits			

## The Date table output should be as follows with column title as above –

DateKey <b>▼</b>	Year <b>▼</b>	MonthNum 🔻	MonthFull 🔻	MonthAbbr 🔻	QuarterNum 🔻	QuarterFull 🔻	QuarterAbbr 🔻
01-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
02-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
03-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
04-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
05-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
06-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
07-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
08-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
09-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
10-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
11-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
12-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
13-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
14-01-2012	2012	1	January	Jan	1	Quarter 1	Q1
15-01-2012	2012	1	January	Jan	1	Quarter 1	Q1

• Make manual connections in the data model wherever required.

**Result** – Creating new measures and columns using DAX to calculate the values and building an accurate data model.