

# Power BI – Adv DAX

## Lab 02

# Writing simple DAX Formulas for Power BI

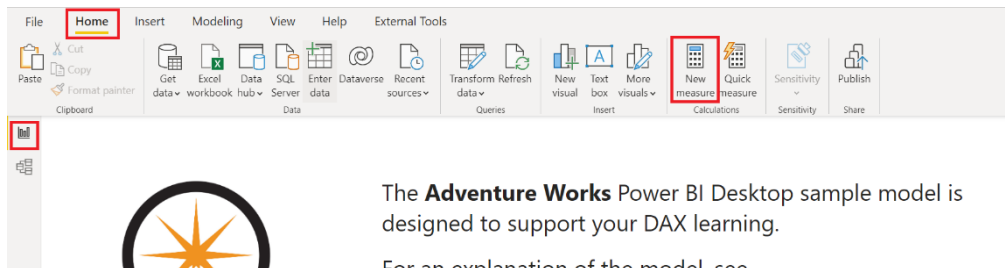
## Overview

The estimated time to complete this lab is: 10 min

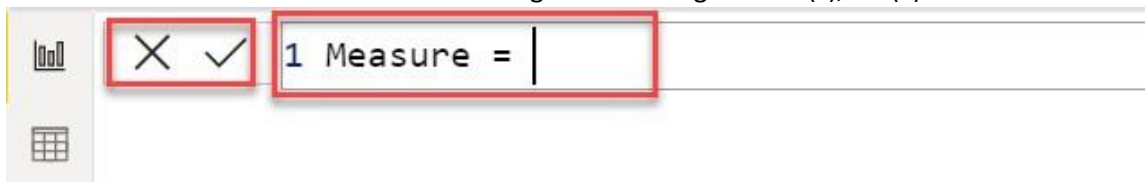
## Exercise 1 – Hello World!

The next exercise shows how to add a measure and then add it to the report.

1. Open the **Adventure Works** Power BI Desktop file.
2. Ensure that you are in Report section, from the [Home] tab select New Measure.



3. Notice a formula bar showing the following. Cancel (x), Ok (v).

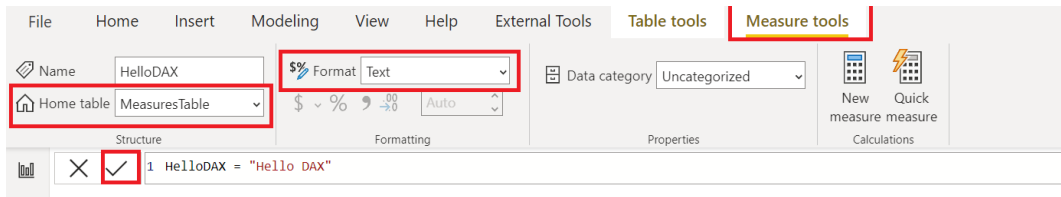


4. Replace the text with the following.

Hello DAX = "Hello DAX"

5. Click either Enter key from the keyboard or select [Ok] from the formula bar. Notice that the Menu option now shows [Measure Tools] and several formatting options

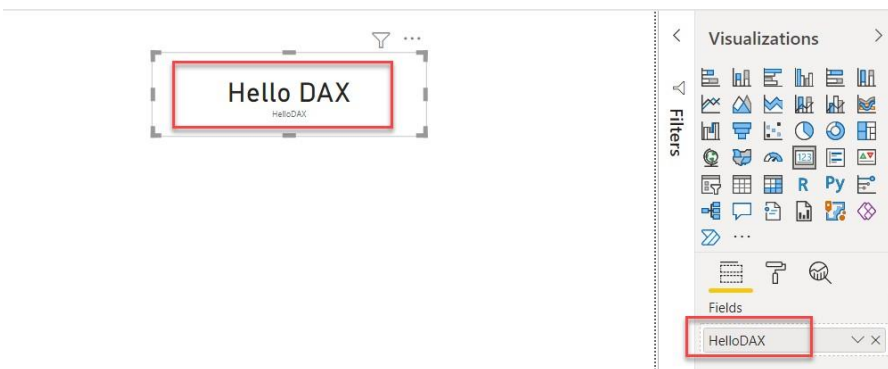
shows up, pay attention toward [Home table]. That is where the new measure will show up.



6. Add a new Page and rename it to M01.



7. In the new Page, drag a card visual onto the canvas. Also drag the measure you created above into the card visual.



## Exercise 2 – DAX Formulas

The next exercise shows how to add a measure and then add it to the report.

1. Continue with the file from Exercise 1.
2. Create another Measure following the same process as above. Home -> New Measure.
3. In the formula bar replace the text with the following.  

```
HelloVar =
var x = 5
var y = 6
return
x * y
```
4. From the visualization, add another card visual and add the [HelloVar] measure.

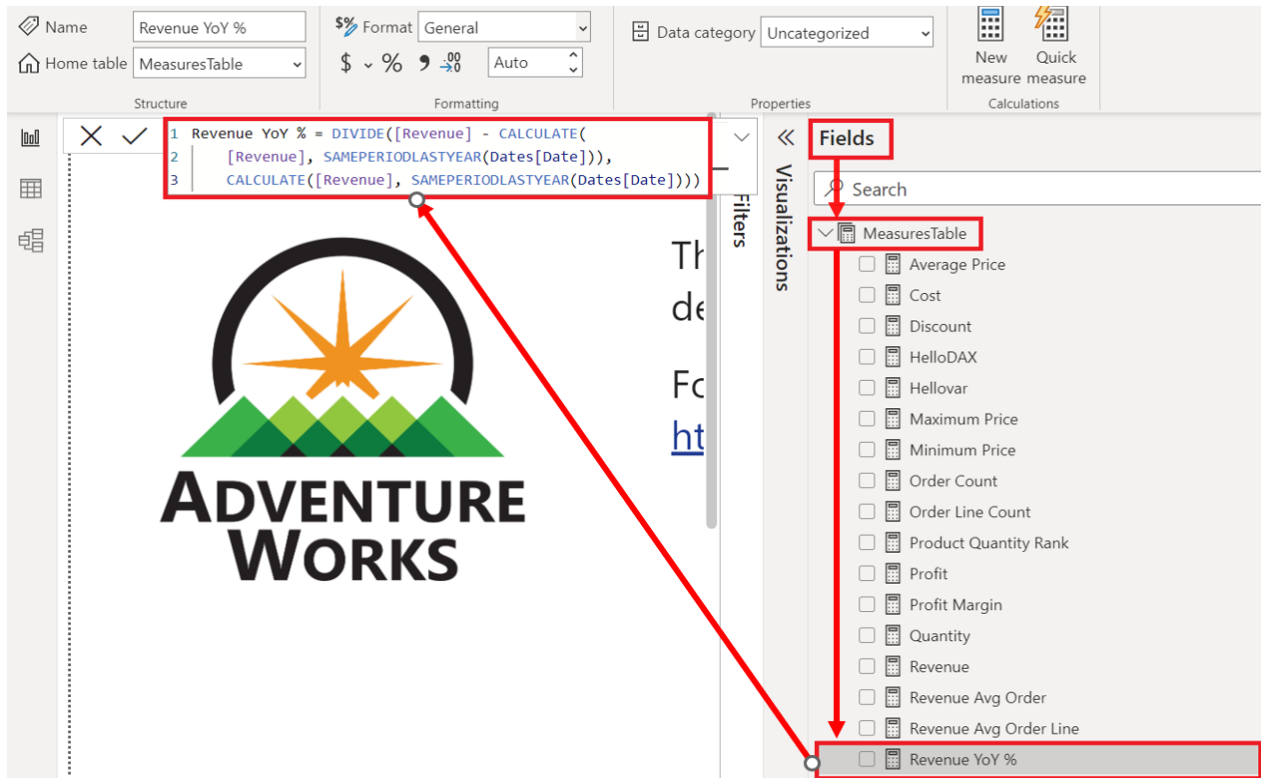
```
1 Hellovar =  
2 var x = 5  
3 var y = 6  
4 return  
5 x * y
```



## Exercise 3 – Refactor an Existing Measure

The next exercise shows how to edit an existing measure.

1. In the **Fields** pane, expand the **MeasuresTable** table to show measures that have been pre-created and click the **Revenue YoY %** measure.



3. Click into the formula box and refactor the DAX expression to use a variable instead of the existing expression.

```
Revenue YoY % =
VAR RevenuePriorYear =
    CALCULATE(
        [Revenue],
        SAMEPERIODLASTYEAR('Date'[Date])
    )
RETURN
    DIVIDE(
        [Revenue] - RevenuePriorYear,
        RevenuePriorYear
    )
```

- 4.
5. Replace the existing DAX expression with the following text.
6. Save the Power BI File as Adventure Works M02.pbix