

Create a new workbook, and import the following tables into your PowerPivot data model:

<input checked="" type="checkbox"/>		tblCentre	dbo	Centre
<input checked="" type="checkbox"/>		tblCentreType	dbo	CentreType
<input type="checkbox"/>		tblEnvironment	dbo	
<input type="checkbox"/>		tblFamily	dbo	
<input type="checkbox"/>		tblHabitat	dbo	
<input type="checkbox"/>		tblProduct	dbo	
<input checked="" type="checkbox"/>		tblPurchase	dbo	Purchase

The tables you'll need for this exercise (as is our owly wont, we've given them friendly names).

Open the Word document in the above folder called **Unit sizes**, and paste it into your PowerPivot data model as a new table called **Sizes**.

Lower	Upper	Category
0	50	Tidgy
50	100	So-so
100	200	Impressive
200	99999	Massive

Don't join this table to any other, though - it should stand alone.

Now create a calculated column in the **Centre** table (not a measure) to give the size verdict for each centre:

Cen...	CentreName	NumberUnits	Size Verdict
9	Abbey Wood R...	7	Tidgy
126	Altrincham Ret...	12	Tidgy
21	Anglia Retail P...	8	Tidgy
122	Ankerside Sho...	59	So-so
271	Arndale Centre	124	Impressive

Categorise each centre into bands.

You can do this by using the **CALCULATE** function to show the value of the category from the **Sizes** table, applying these two filters:

- This row's **NumberUnits** value is greater than or equal to the **Lower** field value in the **Sizes** table; and
- This row's **NumberUnits** value is less than the **Upper** field value in the **Sizes** table.

*You can refer to "This row" by using the **EARLIER** function - but this is still a difficult exercise, and should you get stuck an answer is shown below.*

Here's one possible answer to this exercise:

```
=CALCULATE (
    VALUES ( Categories[Category] ),
    EARLIER ( Centre[NumberUnits] ) < Categories[Upper],
    EARLIER ( Centre[NumberUnits] ) >= Categories[Lower]
)
```

Finally, use this calculated column to summarise sales by size category:

Row Labels	Sum of Quantity
Impressive	17,359
Massive	6,389
So-so	28,641
Tidgy	22,026
Grand Total	74,415

*How ironic that sales in the **Massive** category should be the smallest!*

Save this workbook as **Aaargh**, then close it down.