

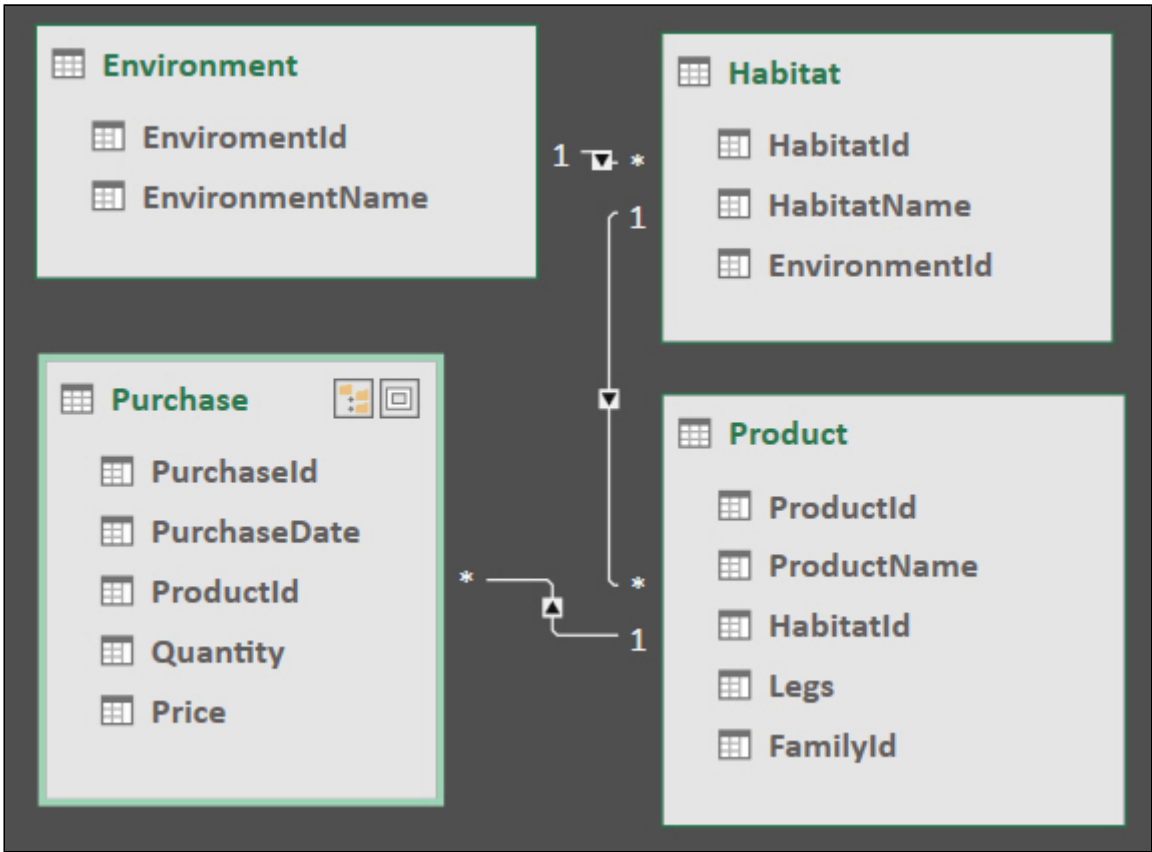
Create a new workbook, and go into PowerPivot. Import the following tables from the **Make-a-Mammal** database:

<input checked="" type="checkbox"/>		tblEnvironment	dbo	Environment	
<input type="checkbox"/>		tblFamily	dbo		
<input checked="" type="checkbox"/>		tblHabitat	dbo	Habitat	
<input checked="" type="checkbox"/>		tblProduct	dbo	Product	<a href="#">Applied filters</a>
<input checked="" type="checkbox"/>		tblPurchase	dbo	Purchase	<a href="#">Applied filters</a>

Import these 4 tables, giving each a friendly name as shown (but also filtering the tables as explained below).

The database is called **Make-a-Mammal**, and on Wise Owl machines can be found in the instance of SQL Server called **.\sql2016**.

You don't really care about animal names or purchase times, so you should apply filters so that you only import the following columns:



The **Environment** and **Habitat** tables have all their fields, but the other two have had some removed.



*These should be the only fields visible in the pivot table field list.*

Create a pivot table showing the average price by environment:

Row Labels	Average of Price
Air	7.84
Land	6.75
Water	9.72
Grand Total	7.14

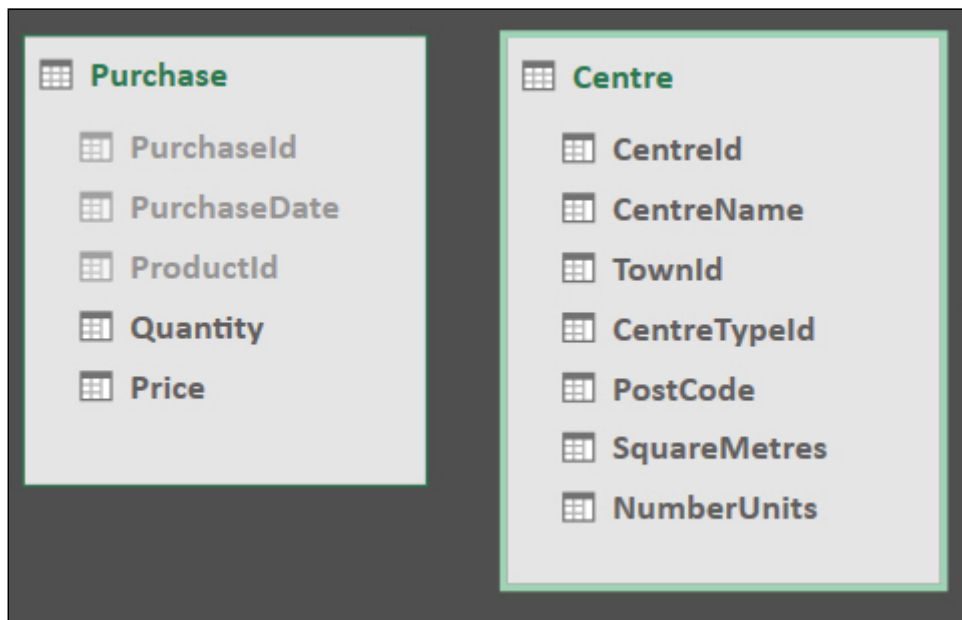
*Make sure you format the average price!*

What we now want to do is to display the centre type as column headings. To achieve this, use your existing connection to add in two more tables:

<input type="checkbox"/>		tblCalendar	dbo	
<input checked="" type="checkbox"/>		tblCentre	dbo	Centre
<input checked="" type="checkbox"/>		tblCentreType	dbo	CentreType
<input type="checkbox"/>				

*The two additional tables you need to import.*

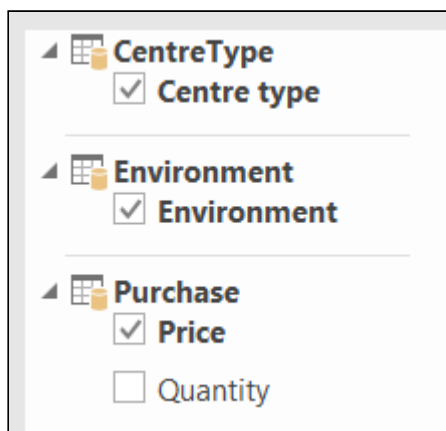
Because you imported the tables in two passes, you'll now need to create a relationship between the **Purchase** and **Centre** tables:



*You need to join these two tables, but ...*

However, we forgot to import the **CentreId** field for the **Purchase** table (soz). Go back into the properties of this table and add this in first - then create the necessary relationship.

Finally, hide tables and hide or rename columns to get the following pivot table field list:



*A couple of the fields have been renamed.*

Use this to create your final pivot table:

Average of Price		Column Labels			
Row Labels		Air	Land	Water	Grand Total
Factory Outlet		7.78	6.87	8.54	7.07
Retail Park		7.85	7.22	9.20	7.45
Shopping Centre		7.84	6.67	9.82	7.08
Shopping Park		7.82	6.84	9.64	7.21
Grand Total		7.84	6.75	9.72	7.14

*The average price is remarkably stable across environments and centre types.*

Save this workbook as **Suspiciously uniform**, then close it down. Have a look at the file size in Windows Explorer to prove to yourself that the workbook contains all of the imported data.