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Exercise 1: Import Data from SQL Database and Create Table Relationship

VanArsdel's US office stores the sales data on a SQL Database on Azure. You will need to perform analysis on that data, but before you can do so, you need to import the data to Excel data model and perform some pre-processing steps.

IMPORTANT! Before you start, if your locale settings is not English (United States), you might want to change this, since the data you will import is based on this locale. You can change this setting for the specific workbook. If you use Excel 2010 or 2013, you can see the locale settings in the Power Query tab. If you are using Excel 2016, it is under New Query / Query Options / Data Load. And remember, if you use Excel 2010, there are separate workarounds for the first two questions. Review the seventh and eight units of the lab (last two tabs) called "Tips and Tricks 2" and "Tips and Tricks 3".

1. Start with a blank Excel file.
2. Import the data from the SQL Database by creating a new Query.

Use the following information to connect to the SQL Database.

- **Server:** msedxeus.database.windows.net
- **Database:** DAT206x01
- **Login:** ExcelLogin (remember to select database login)
- **Password:** P@ssw0rd

IMPORTANT! If you cannot login, please try the following:

- Ensure you are not behind a firewall.
- Ensure you are using database login instead of windows login.

- Try typing the server details and credentials instead of copy pasting.

3. Select the following tables to be imported: **Locations**, **Manufacturer**, **Products**, and **Sales** (Hint: The Select multiple items option might be useful).

4. Edit the query before loading to the data model.

5. Filter the rows on the **Sales** table to include dates from January 1st, 2015. (Hint: filter Dates which are after **12/31/2014**).

6. Name the Query "Sales".

7. Load the data into Excel data model. This might take a few minutes.

8. Open the Excel data model and explore the existing table relationships in the **Diagram View**.

IMPORTANT!! A recent change in query technology caused numerous issues impacting all three versions of Excel but primarily Excel 2013 and 2010. The software engineers are working on fixing this issue. In the meantime, if you have completed all steps of the query import (through step 7) and you see errors in any of your queries in the Workbook Queries pane, then you might need to try the workaround provided in the next unit. Examples of errors include "Load to data model failed" or simply "1 Error".

ALTERNATIVE DATABASE

If you still cannot login to the SQL Azure Database, you may try the following alternatives:

- Restore the database to a local SQL server by using [this](#) SQL backup file, and import the data from the local SQL server.
- Import the data from this access database ([part 1](#), [part 2](#), [part 3](#)).

Lab Question 1

1/1 point (graded)

Which tables have existing relationships defined?

☒ Sales

☒ Products☐ Locations☒ Manufacturer

Submit

You have used 1 of 2 attempts

Correct (1/1 point)

You want to create a relationship between the **Sales** table and the **Locations** table. First, you merge the **Country** and **Zip** columns in both Sales and Locations table as a new column, **CountryZip**. Then, you create a relationship on the **CountryZip** column for both tables.

1. Edit the **Sales** query in Query Editor.
2. Create a **CountryZip** column in Sales table by merging the **Country** and **Zip** columns.
3. Load the data into Excel data model. This might take a few minutes.
4. Edit the **Locations** query in Query Editor.
5. Create a **CountryZip** column in Locations table by merging the **Country** and **Zip** columns.
6. Load the data into Excel data model. This might take a few minutes.
7. Open the Excel data model.
8. Link the newly created **CountryZip** column on the Sales table to the newly created **CountryZip** column on the Locations table. (Hint: Use the Diagram View).

Lab Question 2

4/4 points (graded)

Answer the following question by reviewing the Workbook Queries.

How many rows were imported from the Locations table?



How many rows were imported from the Manufacturer table?



How many rows were imported from the Products table?



How many rows were imported from the Sales table?



You have used 1 of 2 attempts

✓ Correct (4/4 points)

Discussion

Topic: Module 4 / Exercise 1

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Cannot perform Lab 4

I could not log into the SQL server, the SQL backup file would not restore on my local SQL Server 200...

2

	<u>problem to download</u>	1
	<u>Not able to load example files so it is impossible for me to do this Lab.</u>	
	<u>Query Loading Time Consuming</u>	1
	<u>Sales table query alone is taking the hours to load, let alone the other 3 queries. looking like it's unen...</u>	
	<u>No relationships imported</u>	22
	<u>I took the steps to import the data twice, but times with similar results: everything was imported, exc...</u>	
	<u>Problem with connection to SQL Database</u>	12
	<u>Workaround for Lab4</u>	2
	<u>That was really problematic. It took several hours before finally applying the workaround which work...</u>	
	<u>Add this data to data model check box is disabled</u>	1
	<u>Hi, I'm using Microsoft Excel 2013. I'm able to import the data from SQL Database but I'm unable to lo...</u>	
	<u>plz im stuck im using excel 2016 i just cant import SQL data at all</u>	10
	<u>i cant seem to import SQL data TO EXCEL im using excel 2016 and Access i dont c the file plz help im s...</u>	
	<u>I can't login</u>	4
	<u>I don't have an Excel login</u>	
	<u>I tried two times, the relationship cannot be loaded...</u>	2
	<u>I checked the relationship before loaded, there is relationship between the tables; but there is no rela...</u>	
	<u>Support - Query Table Relationships</u>	2
	<u>Why have my existing query table relationships disappeared? Having answered the questions in Lab ...</u>	
	<u>Lab Question 1? Cannot Find Relationships</u>	2
	<u>I downloaded and imported the SQL table into Excel data model, but I don't see any relationships(line...</u>	
	<u>i AM SO ELATED!</u>	2
	<u>I am so happy to announce on this Forum that I have been able to put Module 4 LAB behind me after ...</u>	