

Agricultural Market Access Database: Self-Study Exercises

The following exercises use the data tables from the Agricultural Market Access Database (AMAD) to provide a series of sample calculations with the AMAD data. Although the exercises use data from a subset of countries contained in the AMAD, they are relevant to all countries in AMAD because of the similarity in the data tables across countries. The exercises were selected to introduce AMAD users to the range of types of data aggregation or selection available to AMAD users.

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The exercises presume a basic knowledge of Microsoft Access, including the ability to use queries to create joins between database tables, use the expression builder to create calculated fields, and calculate aggregates.

Questions about the self-study exercises may be addressed to:

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AMAD results from a co-operative effort by

Agriculture and AgriFood Canada, EU Commission - Agriculture Directorate-General, Food and Agriculture Organisation of the United Nations, Organisation for Economic Co-operation and Development, The World Bank, United Nations Conference on Trade and Development, United States Department of Agriculture - Economic Research Service.

Questions about the AMAD may be directed to:
e-mail: contact@amad.org

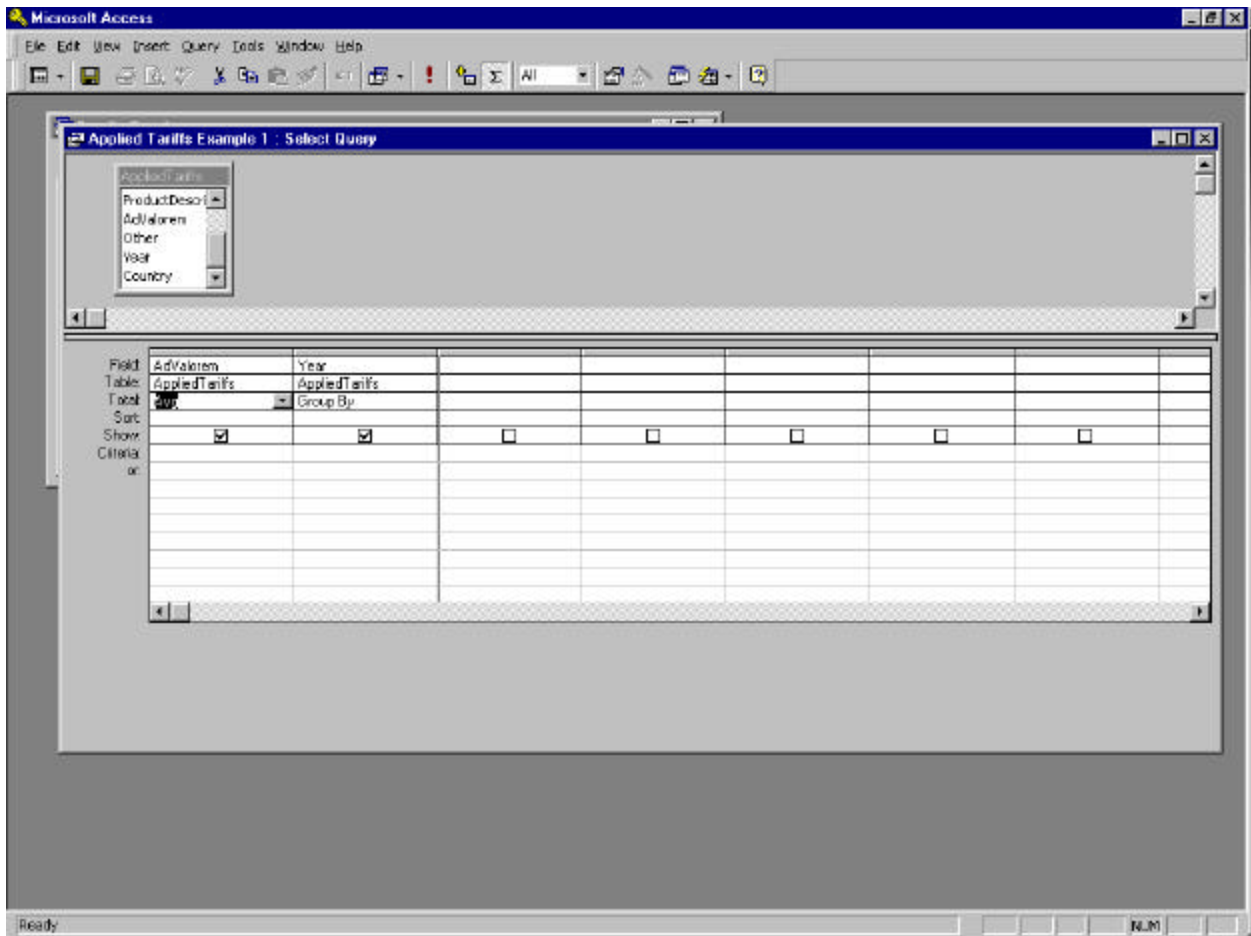
1. Calculate Average Applied Tariffs

Question: What is the difference between bound and applied tariffs?

Exercise: Use the applied tariffs table and the bindings table to create two select queries. Calculate average tariffs for each table.

Notes:

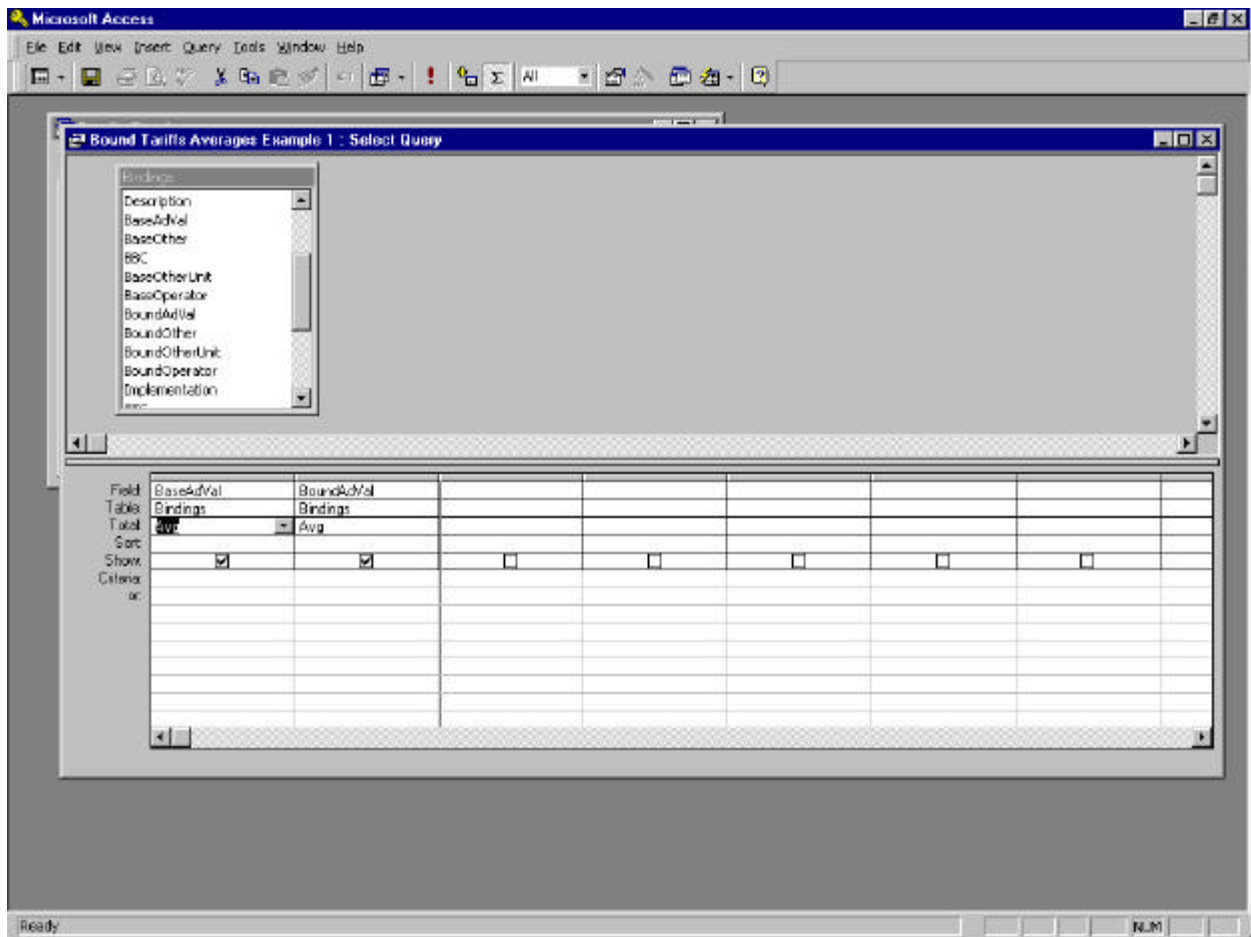
- Use the Brazil Database
- Select the fields shown from the AppliedTariffs table
- Set the Totals line to 'avg' for the AdValorem column and to 'Group By' for the year.



2. Calculate Average Bound Tariffs

Notes:

- Use the Brazil Database
- Select the fields shown from the Bindings table
- Set the Totals line to 'avg' for both columns



3. Calculate Tariff Averages by Major Commodity Aggregate

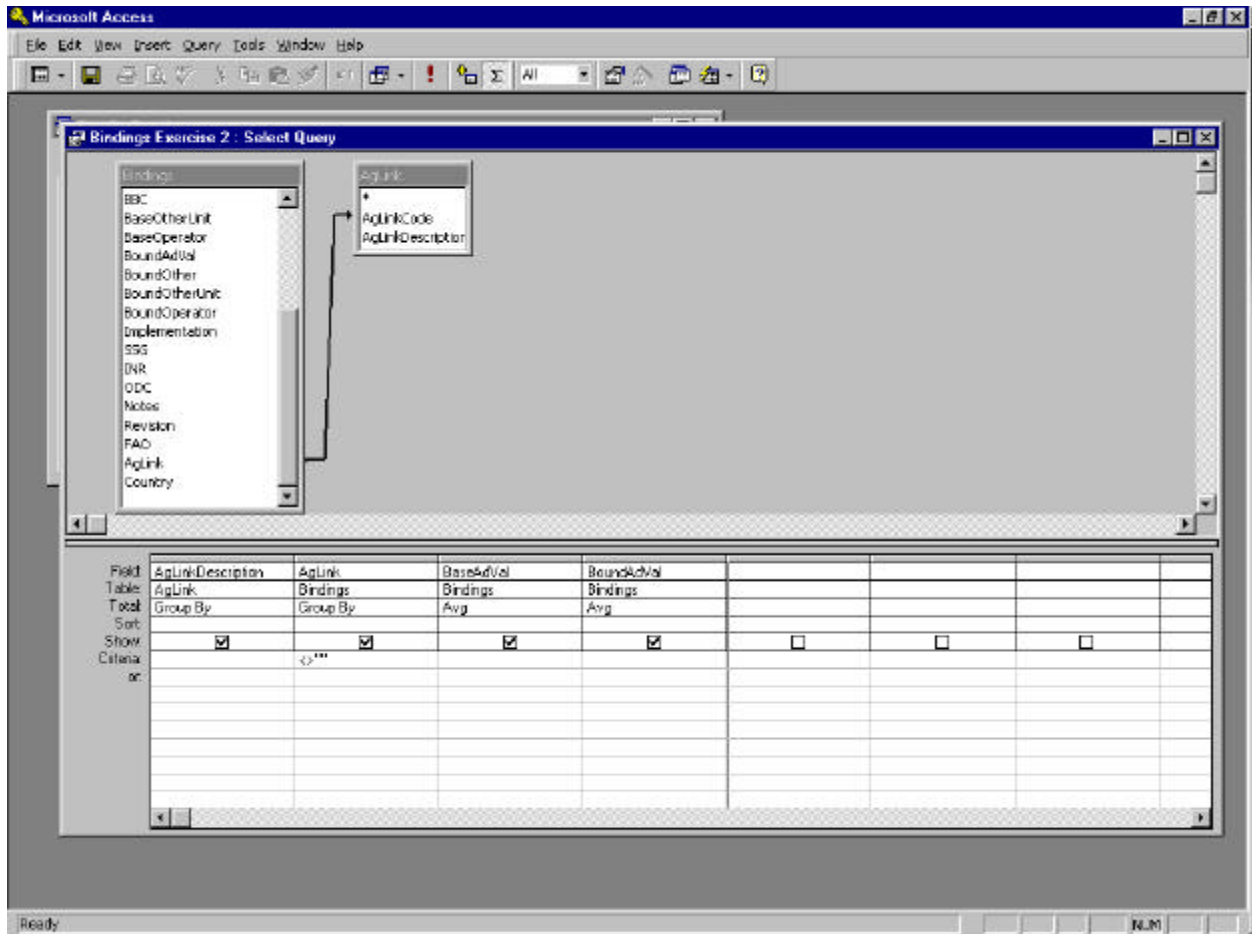
Question: What are average tariffs for major commodity groupings?

Exercise: Make a select query and calculate tariff averages by AgLink grouping

Notes:

Use the Brazil Database

1. Select the fields shown and join the two tables on the AgLink and AgLinkCode fields
2. Set the join property to: “Include ALL records from ‘Bindings’ and only those records from ‘AgLink’ where the joined fields are equal.”
3. Set the criteria to <>” to show only the records that have entries in the AgLink column



Setting the Join Properties



4. Calculate Tariff Averages by HS category

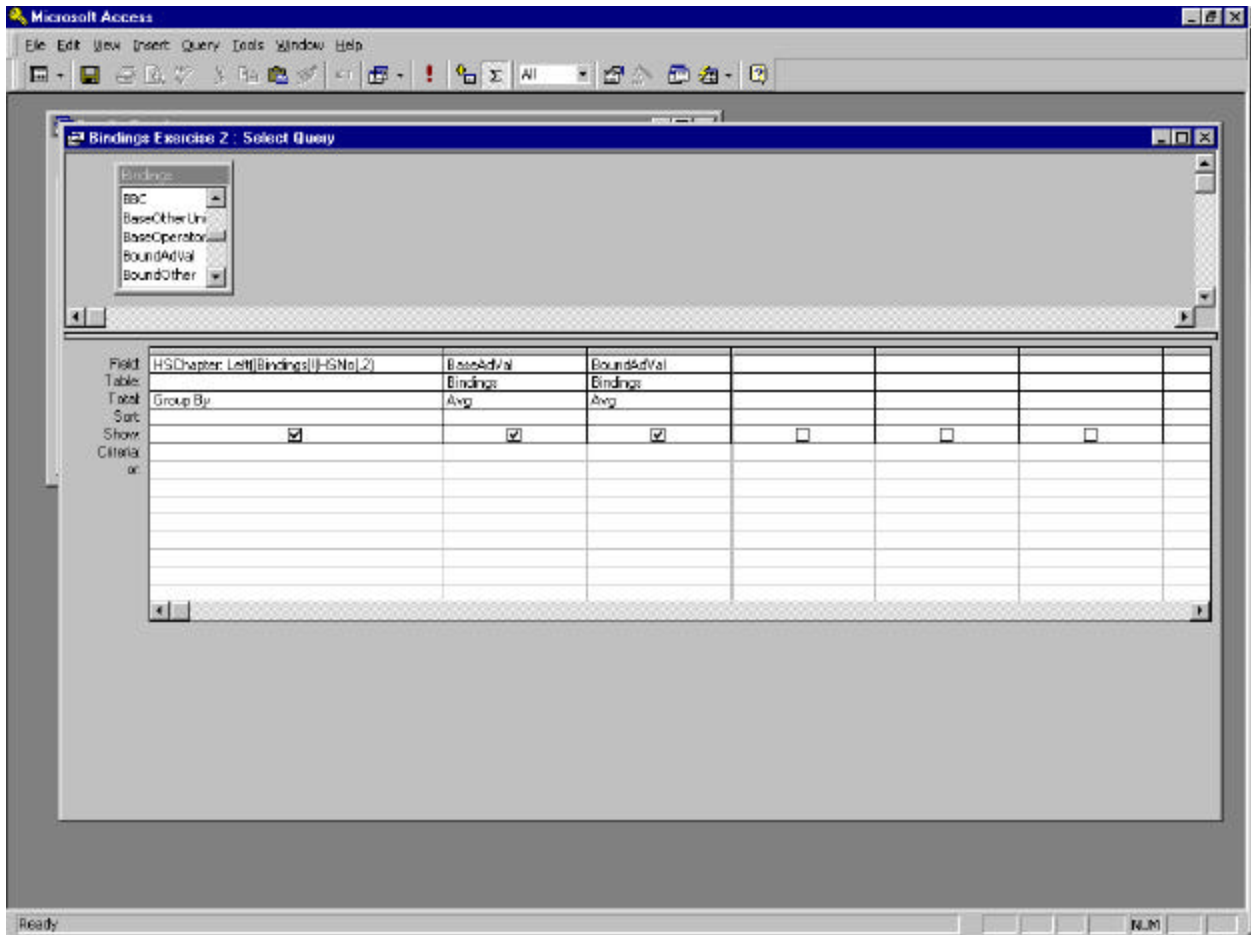
Question: What are the average tariffs at various levels of the harmonized system?

Exercise: Make a select query and calculate tariff averages by 2-digit, 4-digit, or 6-digit HS levels

Notes:

Use the Brazil Database

1. Define a calculated field to 'Group By' and select records based on the first 2 characters of the HSNo field. See explanation of the left function on the next page.
2. Set the 'Totals' row to 'avg' to calculate the averages of the 2 data fields



This example uses the Left function to return a specified number of characters from the left side of a string.

Dim AnyString, MyStr

AnyString = "Hello World" ' Define string.

MyStr = Left(AnyString, 1) ' Returns "H".

MyStr = Left(AnyString, 7) ' Returns "Hello W".

MyStr = Left(AnyString, 20) ' Returns "Hello World".

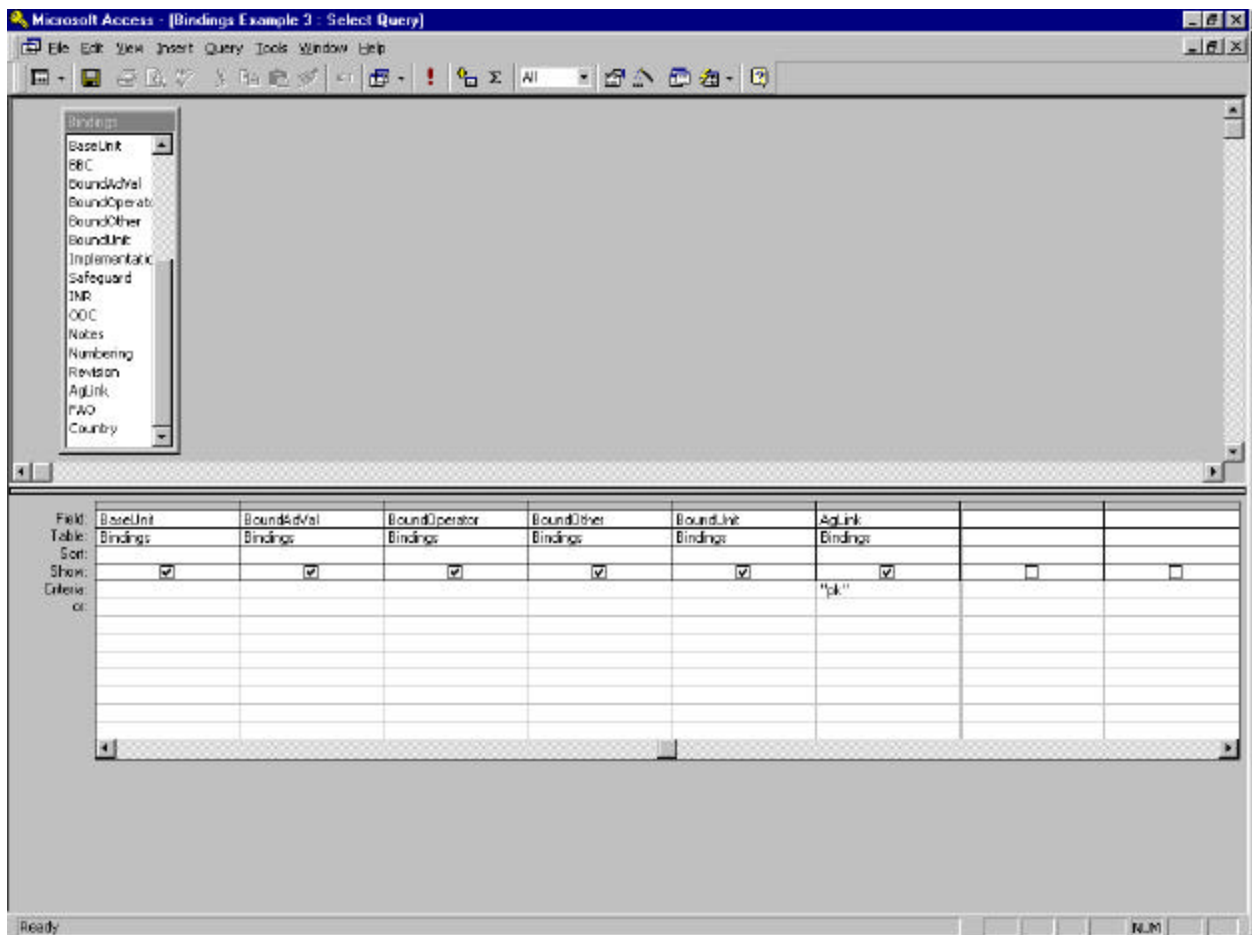
5. Identify Tariff Lines within a Commodity Aggregate

Question: What do the detailed tariff commitments look like for a given commodity grouping?

Exercise: Make a query and filter on the Bindings table based on AgLink codes

Notes:

- Use the Japan Database
- Select the HSN0, Description, BaseAdVal, BaseOther, BSet the criteria for the AgLink field to correspond to a commodity of interest, such as pigmeat (PK)



6. Identify Tariff Commitments for Over-Quota Tariff Lines

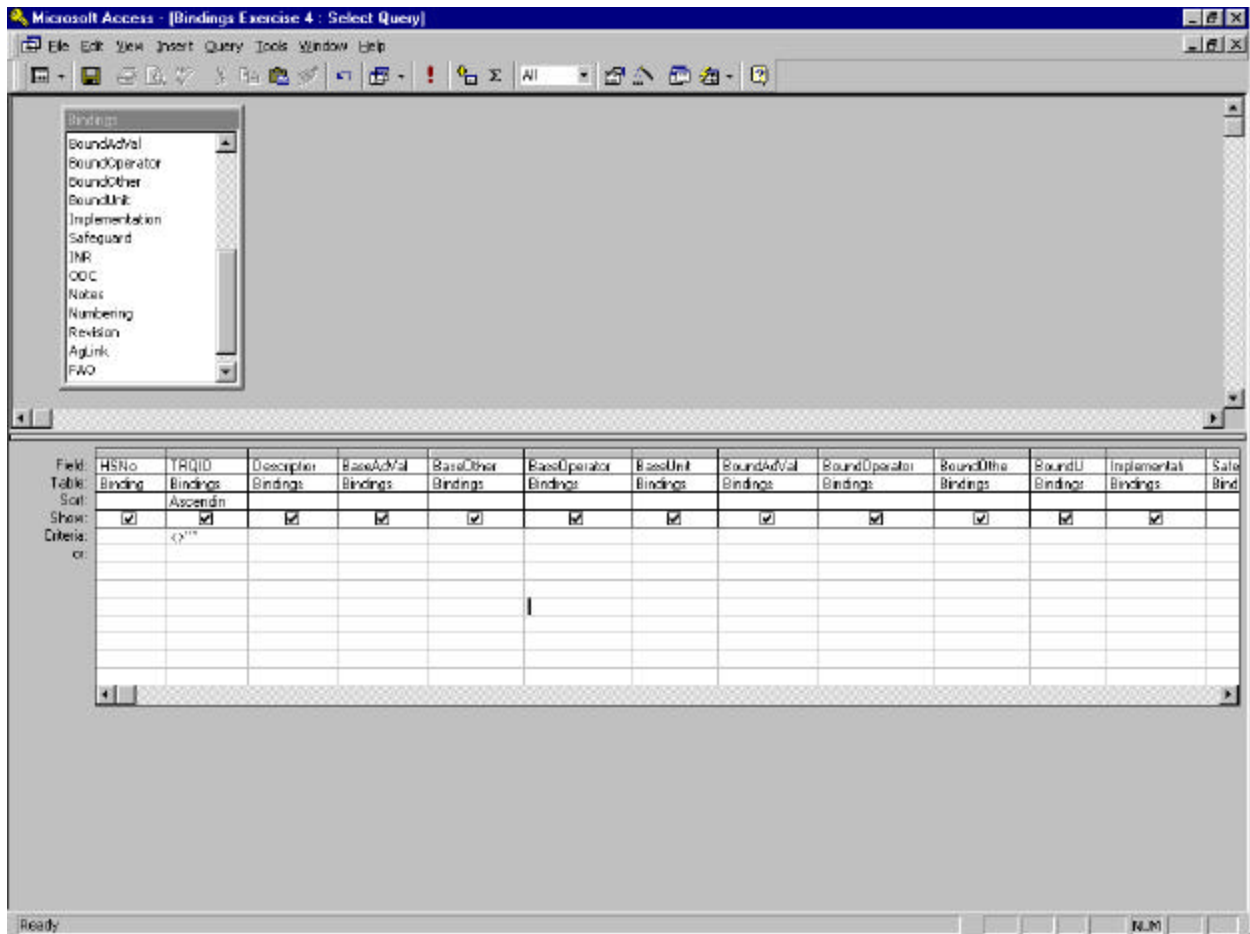
Question: What do the tariff commitments for Over Quota rates look like for a given TRQ?

Exercise: Make a query and filter on the Bindings Table by TRQID

Notes:

Use the Japan Database

- Select the HSN0, Description, TRQID, and all the Base and Bound fields
- Set the criteria for the TRQID field to select only records that contain entries in the TRQID field
- Sort by TRQID, ascending

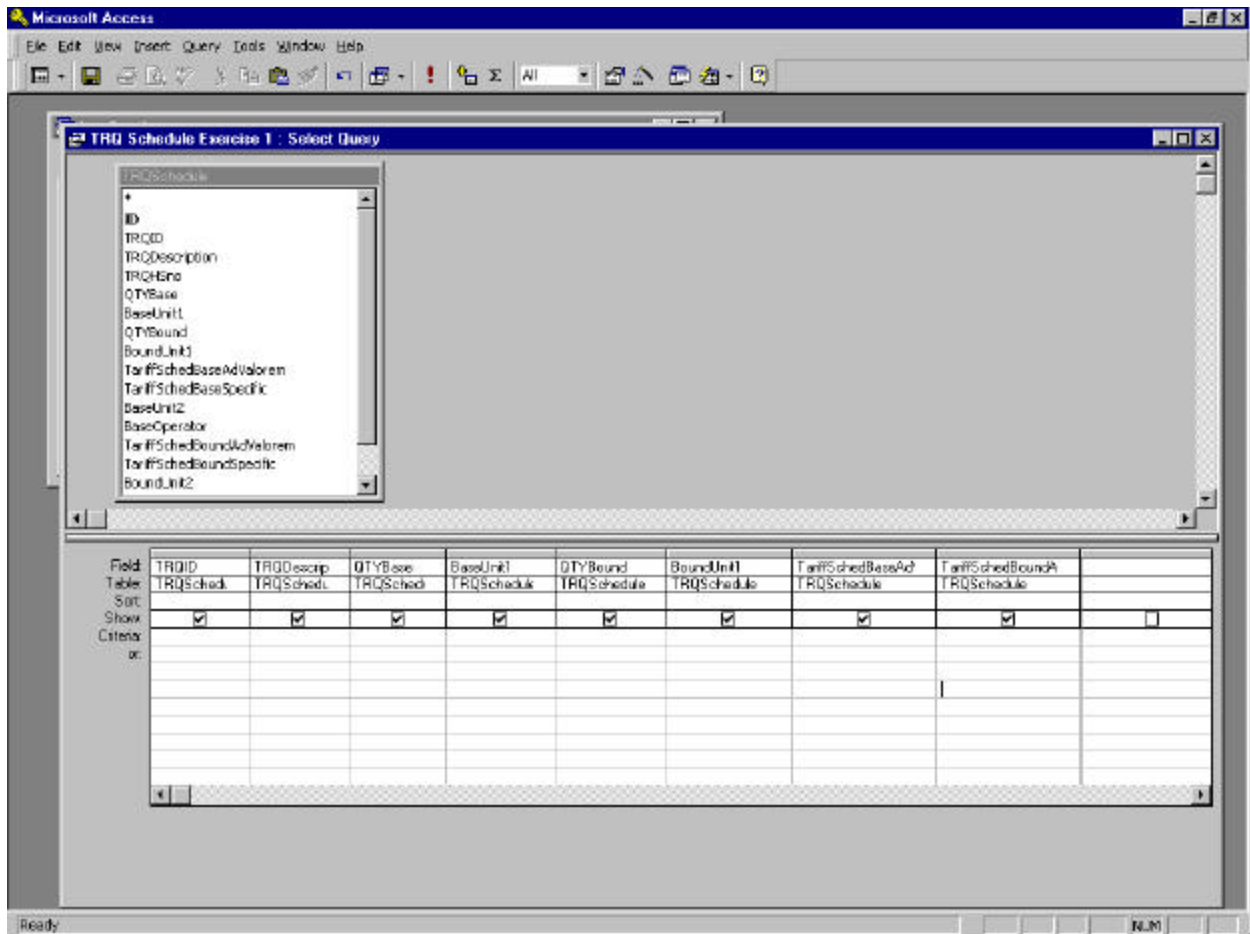


7. Identify Tariff Commitments for In-Quota Tariff Lines

Question: What do the tariff commitments for In Quota rates look like for a given TRQ?

Exercise: Make a query to see in-quota TRQ quantities and tariff rates

- **Notes:**
- Use the Japan Database
- Select the fields as shown



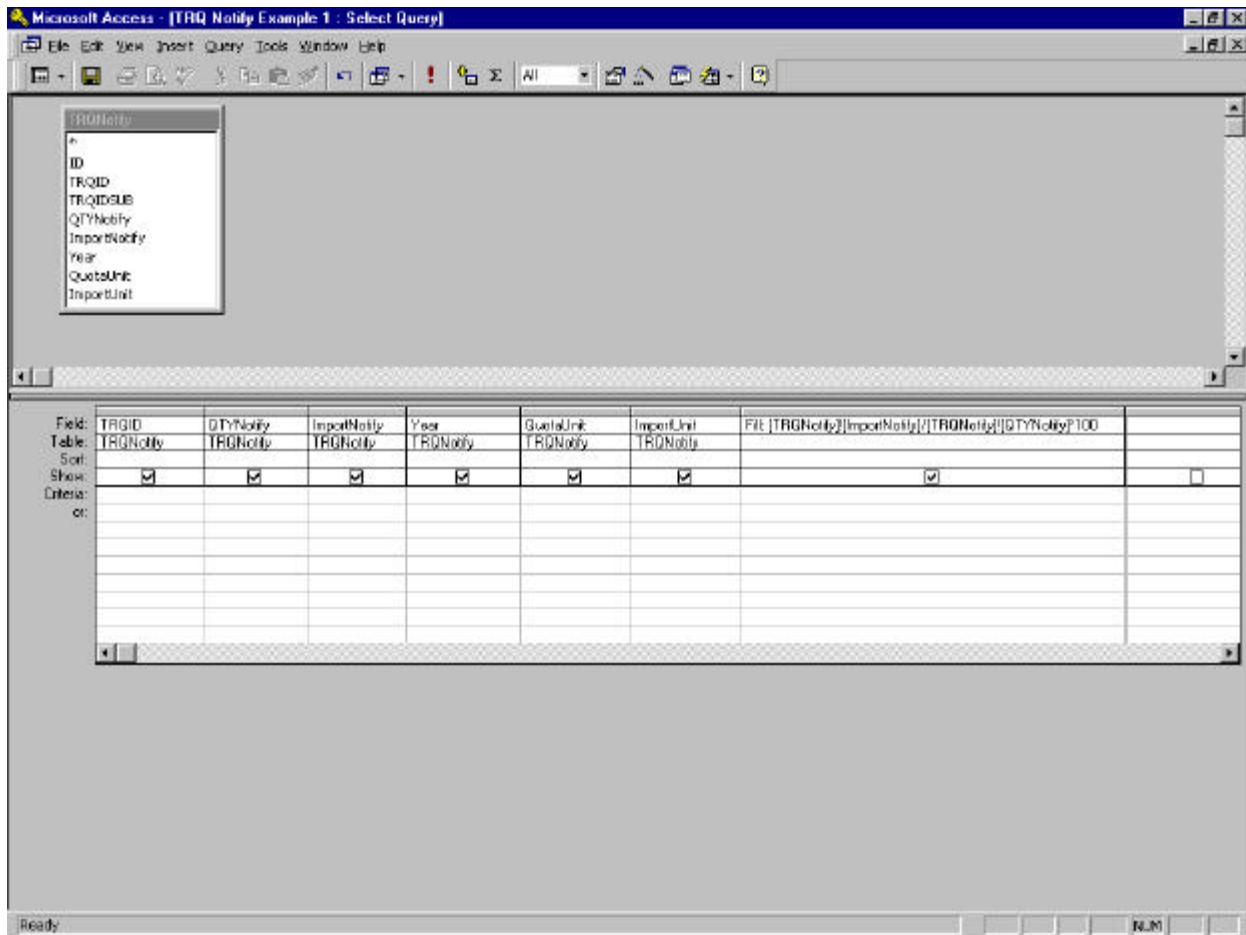
8. Compare TRQ Notification Data

Question: How do notified TRQ imports compare with quota quantities?

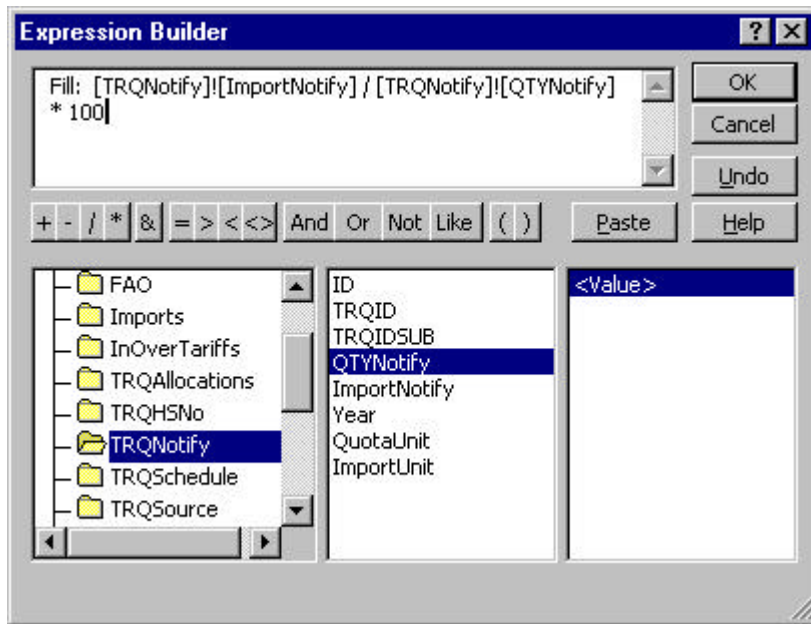
Exercise: Create a field that calculates notified TRQ fill

Notes:

1. Use the Expression Builder to create a calculated field that calculates notified TRQ fill



Expression Builder for TRQ Notify Example 1



9. Identify Supply and Utilization Accounts Data by Commodity

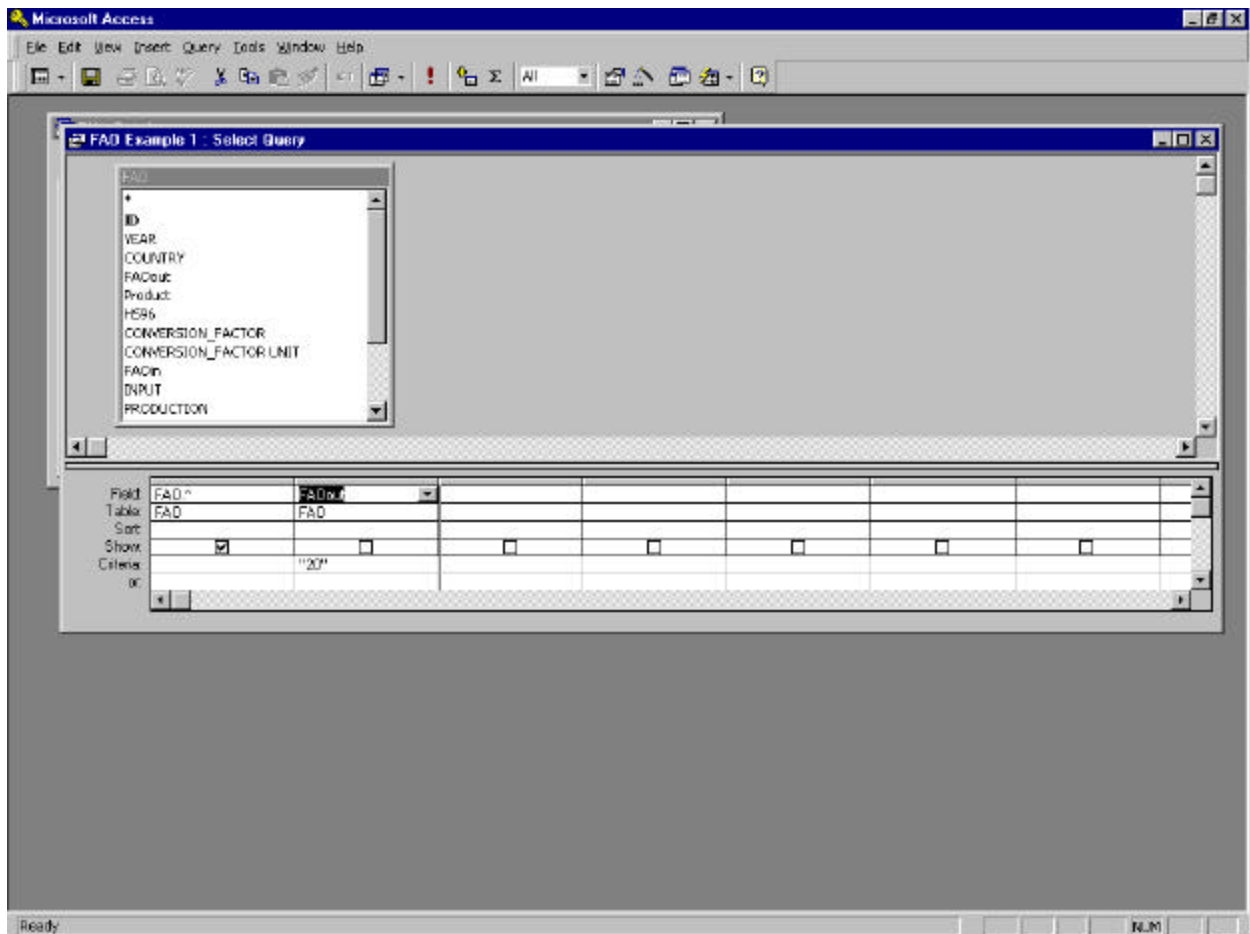
Question: What are tariffs on FAO commodity aggregates?

Exercise: Create two queries to retrieve data from the respective FAO and bindings tables.

FAO Example 1:

Notes:

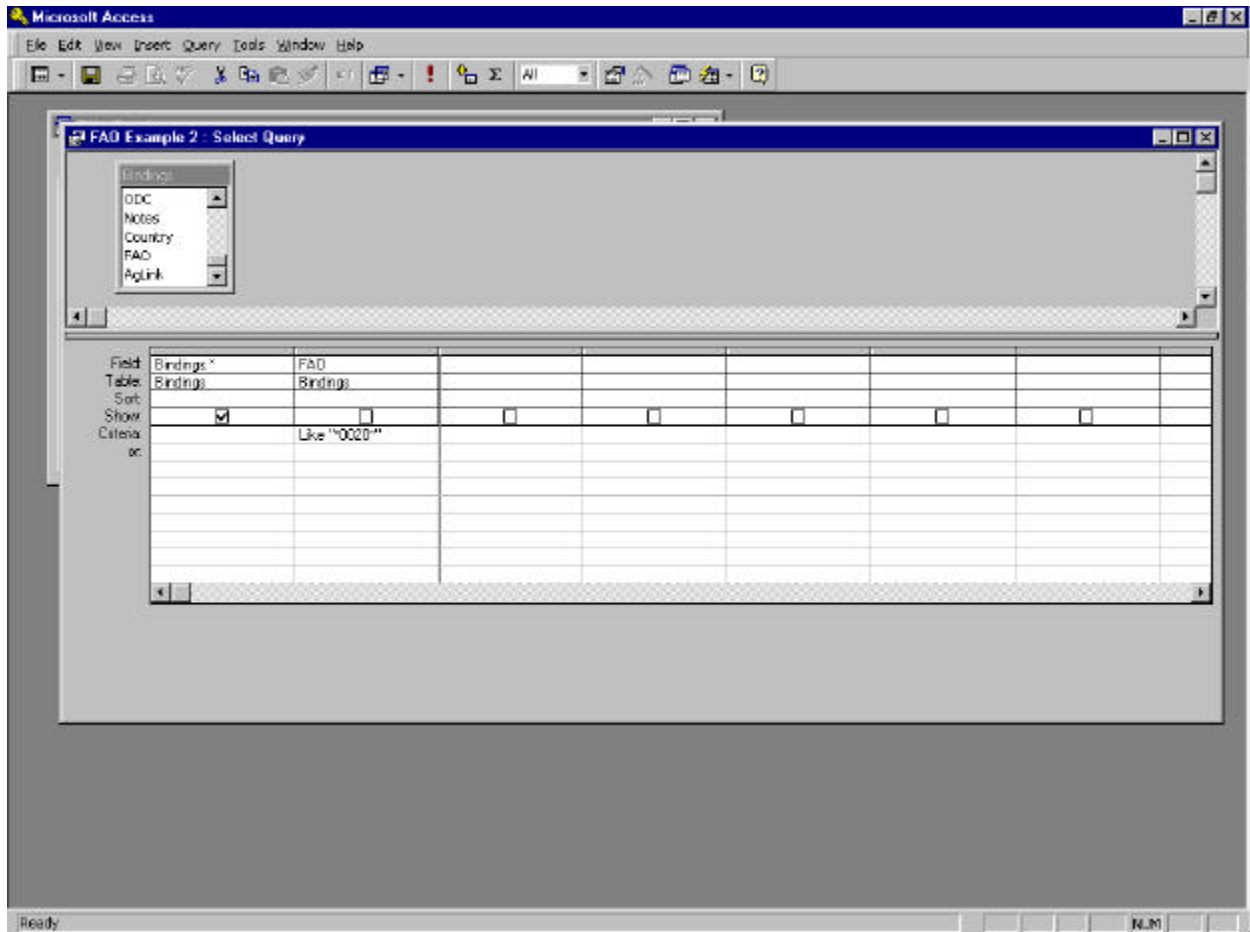
- Use the EU Database
- Select all fields from the FAO table with the asterisk
- Set the criteria for FAOout to "20."
- Uncheck the "Show" box"



10. Identify Tariff Data by FAO Commodity

Notes:

- Use the EU Database
- Select all fields from the FAO table with the asterisk
- Set the criteria to retrieve lines that contain "0020" using the wildcard.



11. Calculate *ad valorem* Equivalent Tariffs using World Import Unit Values

Question: What are the *ad valorem* equivalents of specific tariffs?

Exercise: Calculate *ad valorem* equivalents (AVEs) of over quota tariff rates using world import unit values

Notes:

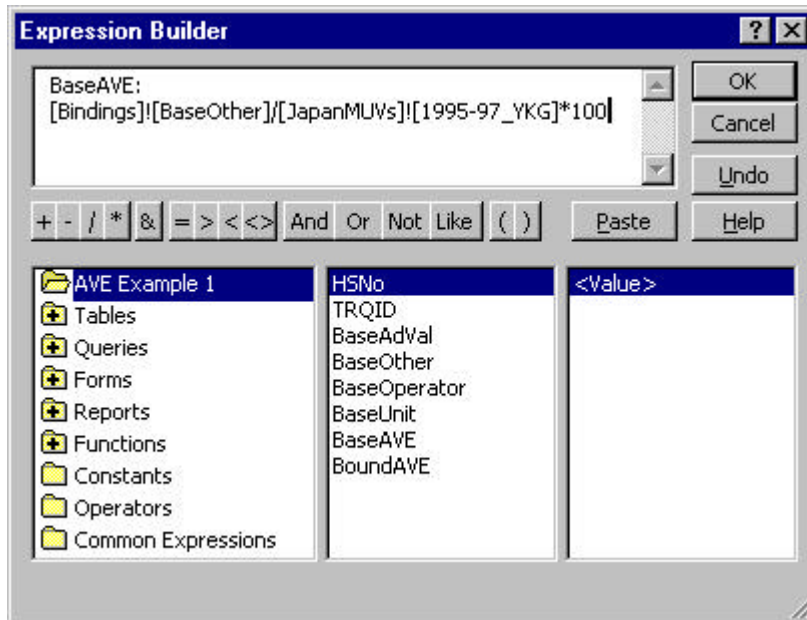
- Use the Japan Database
- Add the tables above, join on the HSNo field, and select the other fields as shown.
- Set criteria for TRQID to <>""
- Create calculated fields to compute AVEs, as shown on the next page.

The screenshot shows the Microsoft Access interface with a query design view for 'AVE Example 1: Select Query'. The design grid is as follows:

Field	HSNo	TRQID	BaseAdVal	BaseOther	BaseOperator	BaseUnit	BaseAVE: (Bindings)	BoundAVE: (Bindin	
Table:	Bindings	Bindings	Bindings	Bindings	Bindings	Bindings			
Sort:		Ascending							
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:		<>""							

Expression Builder for AVE Calculations:

BaseAVE:



BoundAVE:

