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.

List of Exercises

- 1 Calculate Average Applied Tariffs
- 2 Calculate Average Bound Tariffs
- 3 Calculate Tariff Averages by Major Commodity Aggregate
- 4 Calculate Tariff Averages by HS Category
- 5 Identify Tariff Lines within a Commodity Aggregate
- 6 Identify Tariff Commitments for Over-Quota Tariff Lines
- 7 Identify Tariff Commitments for In-Quota Tariff Lines
- 8 Compare TRQ Notification Data
- 9 Identify Supply and Utilization Data by Commodity
- 10 Identify Tariffs Data by FAO Commodity
- 11 Calculate Ad Valorem Equivalent Tariffs using World Import Unit Values

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:

Paul Gibson Economic Research Service U. S. Department of Agriculture 1800 M St., N.W. Washington, DC 20036 e-mail: pgibson@ers.usda.gov tel: (202) 694-5194

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.

- 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.

	aloren er h nbry y				
Field Table Table Sat Stow Cliteria or	AdValorem AppliedTenifs dog.	Year AppledTailfs I Group By			
	<u>.</u>				

2. Calculate Average Bound Tariffs

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

Der Bar Bar	ling aription sAdVal sOther	-			
BB Bas Bo Bo	: eOtherUnit eOperator indAdVel indOther				
80. B0. Dn; 	ndOtherUnit ndOperator ilementation	<u> </u>			
Field Table Total Sort	BaseAdVal Bindings	BoundAdVal Bindings Avg			
Show Cateria ac	M	Ø			

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

this three to	11							<u>19</u> 1
Eax New D	nsert Query Icols	Window Help	I I A Seland					
• • •	14 V 3 19 1	29 * # *	1 10 Σ M	• E') E 2	• 10			_
	a Exercise 2 : Sele	et Quero					_	
1200		-						
10	c	-						5
Ba	seOtherUnit	Aquinko	ade					
Bo	un dAdVal		escripcion					
80	undOther undOther							
80	undOperator							
1m 59	plementation S							
DN	R							
OD No	ic tos	100						
Re	vision	and the second						
FA	0 Link							
	untry	-						
1 at 1		븨						- E
Field	AglinkDescription	AgLink Bindings	BaseAdVal Bindings	BoundAdVal Bindings		ini.	2 2	
1.0.0	to generate a	and the second sec	a starting s	der steller				
Total	Group By	Group By	ewn	avg	<u> </u>			
Total Sat Show	Group By	Group By	Avg					
Total Sort Show Catena	Group By	Group By	Avg Ø					
Total Sort Show Ceiteria	Group By	Group By	Avg 2	E E				
Total Sot Show Estena or	Бгоцр Ву	Group By		Z.				
Total Sort Show Cisteria or	Group By	Group By		<u> </u>				
Total Sort Show Citena or	Group By	Group By	Avg					
Total Sat Show Citeria an	Group By	Group By → 92 → ""	Avg					
Total Sat Show Citena or		Circup By						
Total Set Show Cateria or		Group By						
Total Sort Show Calana or	Group By	Group By	Avg					

Setting the Join Properties

Join Properties	×
C 1: Only include rows where the joined fields from both tables are equal.	~
• 2 Include ALL records from 'Bindings' and only those records from 'AgLink' where the joined fields are equal.	
C 3: Include ALL records from 'AgLink' and only those records from 'Bindings' where the joined fields are equal.	
OK Cancel	

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

Base Bour Bour	oche Uni Operatori IdeAlVa Idother				
Field Table	HSChapter: Lett[Bindings[I]HSNo].2)	BassAdVal Bindince	BoundAdVal Findince		
Total Sort	Бгоцр Ву	Avg	Avg		2
of.					
	13				

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

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

el rato stic							
atic er							
ax							
fnL	BoundAdVal	BoundOperator	BoundOther	BoundLinit	AgLink		
<u>igs</u>	Bindings	Bindings	Bindings	Bindings	Bindings		+
Ð	2	P		2			
					.br		
							-
							-
	Uni Ini Is	Uni Boundádval Ings Bindings	Unit BoundAdvisi BoundOperator ngs Bindings Bindings R R R	Unit BoundAdVal BoundDperator BoundDther ngs Bindings Bindings R R R R R	Unit BoundédVal BoundDperator BoundDrives BloundLinit ngs Bindings Bindings Bindings Bindings RE RE RE RE RE RE RE	Unit Boundédval BoundDiperator BoundDitiver BoundUnit Aglink ngs Bindings Bindings Bindings Bindings E E E E E E E E E E E E E E E E E E E	Unit Boundédval BoundDiperator BoundDitiver BoundUnit Aguink ngs Bindings Bindings Bindings Bindings Bindings

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 HSNo, Description, TRQID, and all the Base and Bound fields

6. Identify Tariff Commitments for Over-Quota Tariff Lines

- Set the criteria for the TRQID field to select only records that contain entries in the TRQID field
- Sort by TRQID, ascending

Bou Bou Bou Dou Bou Bou Bou Bou Not Non Rev Agu FAC	(int) nd&dval nd&perato nd&the nd&hit (emeritatio equard c as detring tion tink)	* "											-
Field Table Soit Show: Diteria: or	HSNo Binding	TRQID Bindings Ascendin	Description Bindings M	BaseAdVal Bindings	BaseOther Bindings	BaseOperator Bindings	BassUnit Bindings	BoundAdVal Bindings I	BoundOperator Bindings M	BoundOthe Bindings	BoundU Bindings R	Inglementati Bindings R	Sat
	•												2

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

THU SC D D TRQ TRQ TRQ TRQ TRQ TRQ TRQ TRQ TRQ TRQ	hedule Exerci Description (Enc Base Unit) Bound ndUnit) (FischedBaseAd (FischedBaseSo Unit) 20nt2	ien T : Solinet Valorem ecfic	Query						191
Field	Processor Frankeboundw Frankebounds ndUnit2 TRDID TRDID TRDID	dValorem pedfic	T TYBese	BaseUniti	0TYBound	BoundUnt1	TarffSchedBassAct	FarifSchedBoundA	
Sot Show Cateria Dt		M							

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

			1 I I I I I I I I I I I I I I I I I I I	• ! º 3	: AI 2	<u>3 A</u> 🗗 🚈	- 0	
e ID TRQI	latty							
TRQI QTYN Impo Year	DSUB Jobily rtNobly							
Quet Inipo	aUnit etUnit							
ield:	TRGID TRGNotify	DTYNoify TRGNoffy	InpatNotity TRGNotity	Year TRQNotify	GuetaUnit TRONotiv	ImperiUnit TB0Noble	Fit [TRGNotly]]inportNatly[/]TRGNatly[/]0TYNotlyp100	
Sort IXIAI esia: or:	9	Ø	Ø	Ø	Ø	Ø		

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:

- 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"

FAD Examp	le 1 : Select Query			ادى	_	_	E
* ID VEAR COUNT FADout Product H596 CONVER FADIN DRVIN PRODU	Y SION_FACTOR SION_FACTOR UNIT TROM	•					
Field: FA Table: FA Sort Show: Citeta of		0000 (m) 20 07	0			-	

10. Identify Tariff Data by FAO Commodity

- 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.

Field Table: Sort Show	Bindings.× Bindings	PAD Bindings Like "0020"			

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

- 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.



Expression Builder for AVE Calculations:

BaseAVE:

BaseAVE: [Bindings]![BaseOther]/[J	apanMUVs]![1995-97_YKG]]*100	OK Cancel
+ - / * 8 => < <> /	And Or Not Like ()	Paste	<u>U</u> ndo <u>H</u> elp
AVE Example 1 Tables Queries Forms Reports Functions Constants Operators Common Expressions	HSNo TRQID BaseAdVal BaseOther BaseOperator BaseUnit BaseAVE BoundAVE	<value></value>	

BoundAVE:

