

# CMPE2400 - ICA11 - Aggregates and Aggravation

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This ica will utilize an sql file for answer submission. See the template and explanation document.

This ica will exercise basic aggregate functionality.

The DB used in this ica is the globally shared NorthwindTraders. While you may include a "use" statement for your testing, Do not leave it in your submission. If you are prone to forget, leave it out and set the query DB in the selector in the IDE.

For all queries, you shall Alias columns as shown in the expected results.

For all queries that have constraints with \*\*, declare variables to hold the specified values prior to the query - use these variables with various values to test your query - reset to specified values prior to submission.

## Q1. - 2 Table Join

Write the select to retrieve the employee last, first name and the number of orders each has made. Sort the results by most productive to least.

Name	Num Orders
-----	-----
Peacock, Margaret	156
Leverling, Janet	127
Davolio, Nancy	123
Callahan, Laura	104
Fuller, Andrew	96
King, Robert	72
Suyama, Michael	67
Dodsworth, Anne	43
Buchanan, Steven	42

(9 row(s) affected)

## Q2. - 2 Table join

Write the select to retrieve the employee last, first name, and for their respective orders - the unformatted average freight and newest ( what aggregate function would this be ? ) order date formatted as shown. Sort your results by newest order date, Last Name. Note : if you sort by your formatted column it will be alphabetic, you want temporal - sort by your aggregate expression !

Name	Average Freight	Newest Order Date
-----	-----	-----
Buchanan, Steven	93.3026	22 Apr 1998
Suyama, Michael	56.4249	23 Apr 1998
Dodsworth, Anne	77.3548	29 Apr 1998
Leverling, Janet	85.7066	30 Apr 1998
Fuller, Andrew	90.5876	05 May 1998
Callahan, Laura	71.9988	06 May 1998
Davolio, Nancy	71.8426	06 May 1998
King, Robert	92.5755	06 May 1998
Peacock, Margaret	72.7316	06 May 1998

(9 row(s) affected)

### Q3. 2 Table Join

Write the select to retrieve ALL supplier company names, their country and the number of products they supply and the average unit price of those products. Sort by increasing number of products. Restrict your results to supplier names that start with either H,U,R or T. Sort your results by increasing number of products.

Supplier	Country	Num Products	Avg Price
Haikan Homebrew	Sweden	0	NULL
Rigel VII Distillers	USA	0	NULL
Refrescos Americanas LTDA	Brazil	1	4.50
Heli Süßwaren GmbH & Co. KG	Germany	3	29.71
Tokyo Traders	Japan	3	46.00

Warning: Null value is eliminated by an aggregate or other SET operation.

(5 row(s) affected)

### Q4. 2 Table Join

Write the select to retrieve ALL the supplier names, their respective country and lowest and highest unit priced products they offer. Substitute zero for the aggregate value of lowest and highest prices – Use COALESCE() here.. Restrict your results to country of USA \*\*. Sort your results by the increasing lowest price.

Supplier	Country	Min Price	Max Price
Rigel VII Distillers	USA	0.00	0.00
New England Seafood Cannery	USA	9.65	18.40
Bigfoot Breweries	USA	14.00	19.67
New Orleans Cajun Delights	USA	17.00	22.00
Grandma Kelly's Homestead	USA	25.00	40.00

(5 row(s) affected)

### Q5. 3 Table join

Write the select to retrieve ALL the customer company names, their respective city, the formatted order date of their respective orders and the number of products in each order. Restrict your results to only include customers in city of Walla Walla or country is Poland. Sort your results by increasing products in the order.

Customer	City	Order Date	Products in Order
Bone's Bar	Walla Walla	NULL	0
Lazy K Kountry Store	Walla Walla	21 Mar 1997	1
Lazy K Kountry Store	Walla Walla	22 May 1997	1
Wolski Zajazd	Warszawa	25 Feb 1998	1
Wolski Zajazd	Warszawa	23 Apr 1998	1
Wolski Zajazd	Warszawa	04 Feb 1998	2
Wolski Zajazd	Warszawa	05 Dec 1996	2
Wolski Zajazd	Warszawa	25 Jul 1997	3
Wolski Zajazd	Warszawa	23 Dec 1997	3
Wolski Zajazd	Warszawa	03 Apr 1998	4

Warning: Null value is eliminated by an aggregate or other SET operation.

(10 row(s) affected)

### Q6. 3 Table join

Write the select which will retrieve ALL the employee last, first names, and for all their respective order detail records - the total value of them ( quantity time price ) and total number of them. Convert the total value to money as the expression will upcast the resultant type. Sort your results by decreasing Sales Total.

Name	Sales Total	Detail Items
-----	-----	-----
Peacock, Margaret	250187.45	420
Leverling, Janet	213051.30	321
Davolio, Nancy	202143.71	345
Fuller, Andrew	177749.26	241
King, Robert	141295.99	176
Callahan, Laura	133301.03	260
Dodsworth, Anne	82964.00	107
Suyama, Michael	78198.10	168
Buchanan, Steven	75567.75	117
Pike, Christopher	NULL	0

Warning: Null value is eliminated by an aggregate or other SET operation.

(10 row(s) affected)

Done