The nobel table can be used to practice more SUM and COUNT functions.

From SQLZOO

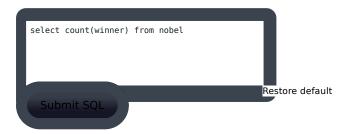
bel Prizes: Aggregate functions

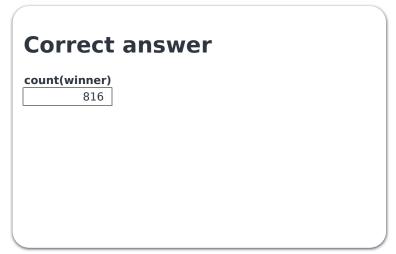
This tutorial concerns aggregate functions such as COUNT, (SUM) and (AVG).

Exercises

Using SUM, COUNT, MAX, AVG, DISTINCT and ORDER BY.

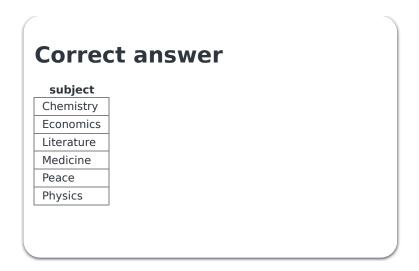
Show the total number of prizes awarded.





List each subject - just once





Show the total number of prizes awarded for Physics.

nobel(yr, subject, winner)

select count(subject) from nobel where subject="Physics"

Restore default

Correct answer

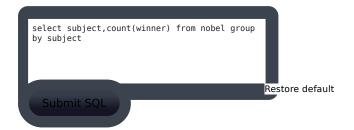
count(subject)

184

Using GROUP BY and HAVING.

For each subject show the subject and the number of prizes.

| nobel(yr,subject, winner) |

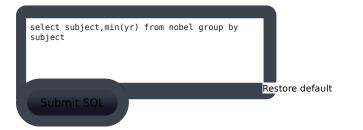


Correct answer

subject	count(winner)
Chemistry	154
Economics	62
Literature	105
Medicine	192
Peace	119
Physics	184

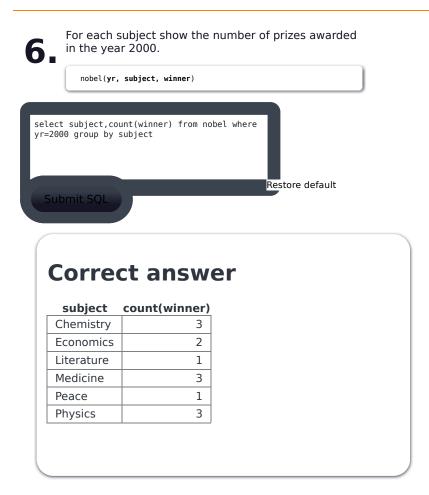
For each subject show the first year that the prize was awarded.

nobel(yr, subject, winner)

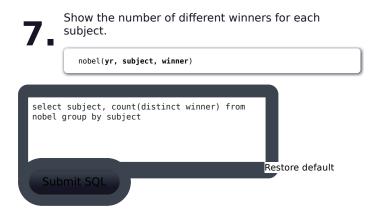


Correct answer

subject	min(yr)
Chemistry	1901
Economics	1969
Literature	1901
Medicine	1901
Peace	1901
Physics	1901



Look into aggregates with DISTINCT.



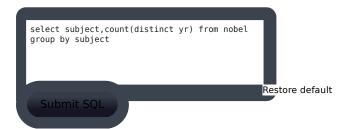
Correct answer

subject	count(distinc
Chemistry	153

Chemistry	153
Economics	62
Literature	105
Medicine	192
Peace	116
Physics	183

For each subject show how many years have had prizes awarded.

 $\verb"nobel(yr, subject, winner)"$



Correct answer

subject count(distinc..

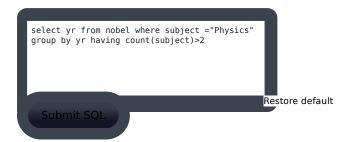
Chemistry	100
Economics	40
Literature	101
Medicine	99
Peace	89
Physics	102

Using HAVING.

Show the years in which three prizes were given for Physics.

nobel(yr, subject, winner)

The nobel table can be used to practice more SU...



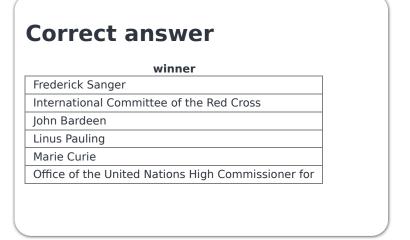
yr 1903 1956 1958 1963 1964 1965 1972 1973 1975

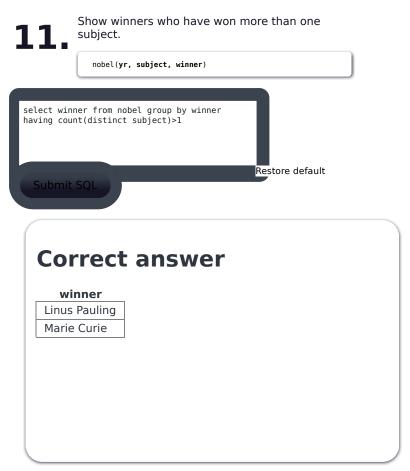
Show winners who have won more than once.

nobel(yr, subject, winner)

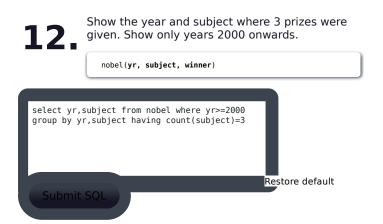
select winner from nobel group by winner having count(winner)>1

Restore default





GROUP BY yr, subject



Cor	rect a	SWAL	
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yr	subject		
2000	Chemistry		
2000	Medicine		
2000	Physics		
2001	Chemistry		
2001	Economics		
2001	Medicine		
2001	Physics		
2002	Chemistry		
2002	Medicine		

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