SELECT from Nobel Tutorial

Language:	English ・ 日本語・中文

Contents

nobel

yr	subject	winner
1960	Chemistry	Willard F. Libby
1960	Literature	Saint-John Perse
1960	Medicine	Sir Frank Macfarlane Burnet
1960	Medicine	Peter Madawar
...		

nobel Nobel Laureates

We continue practicing simple SQL queries on a single table.

This tutorial is concerned with a table of Nobel prize winners:

```
nobel(yr, subject, winner)
```

Using the SELECT statement.

Winners from 1950

1.

Change the query shown so that it displays Nobel prizes for 1950.

```
select yr,subject, winner
  from nobel
 where yr = 1950
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1950	chemistry	Kurt Alder
1950	chemistry	Otto Paul Hermann Diels
1950	literature	Earl (Bertrand Arthur William) Russell
1950	medicine	Edward Calvin Kendall
1950	medicine	Philip Showalter Hench
1950	medicine	Tadeus Reichstein
1950	peace	Ralph Bunche
1950	physics	Cecil Frank Powell

1962 Literature

2.

Show who won the 1962 prize for literature.

```
select winner
from nobel
where yr = 1962
   AND subject = 'literature'
```

Submit SQL   restore default

Correct answer

winner
John Steinbeck

Albert Einstein

3.

Show the year and subject that won 'Albert Einstein' his prize.

```
select yr, subject
from nobel
where winner="Albert Einstein"
```

Submit SQL   restore default

Correct answer

yr	subject
1921	physics

Recent Peace Prizes

4.

Give the name of the 'peace' winners since the year 2000, including 2000.

```
select winner
from nobel
where subject="peace" and
yr>=2000
```

Submit SQL   restore default

Correct answer

winner
Kim Dae-jung
Kofi Annan
United Nations (UN)
Jimmy Carter
Shirin Ebadi
Wangari Muta Maathai
International Atomic Energy Agency (IAEA)
Mohamed ElBaradei
Grameen Bank

Literature in the 1980's

5.

Show all details (**yr**, **subject**, **winner**) of the literature prize winners for 1980 to 1989 inclusive.

```
select yr,subject,winner
from nobel
where subject = "literature" and
yr between 1980 and 1989
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1980	literature	Czeslaw Milosz
1981	literature	Elias Canetti
1982	literature	Gabriel García Márquez
1983	literature	William Golding
1984	literature	Jaroslav Seifert
1985	literature	Claude Simon
1986	literature	Wole Soyinka
1987	literature	Joseph Brodsky
1988	literature	Naguib Mahfouz

Only Presidents

6.

Show all details of the presidential winners:

- Theodore Roosevelt
- Thomas Woodrow Wilson
- Jimmy Carter
- Barack Obama

```
select *
from nobel
where winner in('Theodore Roosevelt',
'Thomas Woodrow Wilson',
'Jimmy Carter',
'Barack Obama')
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1906	peace	Theodore Roosevelt
1919	peace	Thomas Woodrow Wilson
2002	peace	Jimmy Carter
2009	peace	Barack Obama

John

7.

Show the winners with first name John

```
select winner
from nobel
where winner like 'john%'
```

Submit SQL   restore default

Correct answer

winner
John James Rickard Macleod
John Galsworthy
John Howard Northrop
John Raleigh Mott
John Franklin Enders
John Bardeen
John Cowdery Kendrew
John Steinbeck
John Hicks

Chemistry and Physics from different years

8.

Show the year, subject, and name of physics winners for 1980 together with the chemistry winners for 1984.

```
select yr, subject, winner
from nobel
where (subject = "physics" and yr = '1980') OR (subject = 'chemistry' and yr = 1984)
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1980	physics	James Watson Cronin
1980	physics	Val Logsdon Fitch
1984	chemistry	Robert Bruce Merrifield

Exclude Chemists and Medics

9.

Show the year, subject, and name of winners for 1980 excluding chemistry and medicine

```
select *
from nobel
where yr = 1980 and subject not in  ('chemistry', 'medicine')
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1980	economics	Lawrence Klein
1980	literature	Czeslaw Milosz
1980	peace	Adolfo Pérez Esquivel
1980	physics	James Watson Cronin
1980	physics	Val Logsdon Fitch

Early Medicine, Late Literature

10.

Show year, subject, and name of people who won a 'Medicine' prize in an early year (before 1910, not including 1910) together with winners of a 'Literature' prize in a later year (after 2004, including 2004)

```
select *
from nobel
where (subject  = 'medicine' and  yr < 1910) or (subject = 'literature' and yr >= 2004)
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1901	medicine	Emil Adolf von Behring
1902	medicine	Ronald Ross
1903	medicine	Niels Ryberg Finsen
1904	medicine	Ivan Petrovich Pavlov
1905	medicine	Robert Koch
1906	medicine	Camillo Golgi
1906	medicine	Santiago Ramón y Cajal
1907	medicine	Charles Louis Alphonse Laveran
1908	medicine	Ilya Ilyich Mechnikov

Nobel Quiz

Harder Questions

Umlaut

11.

Find all details of the prize won by PETER GRÜNBERG

Non-ASCII characters

```
select *
from nobel
where winner="PETER GRÜNBERG"
```

Submit SQL   restore default
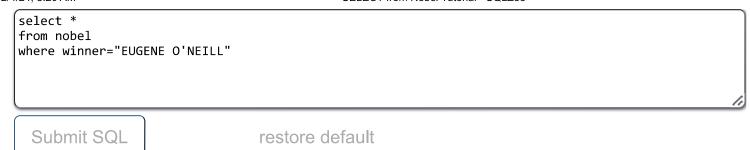
Correct answer

yr	subject	winner
2007	physics	Peter Grünberg

Apostrophe

12.

Find all details of the prize won by EUGENE O'NEILL

Escaping single quotes

```
select *
from nobel
where winner="EUGENE O'NEILL"
```

Submit SQL   restore default

Correct answer

yr	subject	winner

Knights of the realm

13.

Knights in order

List the winners, year and subject where the winner starts with Sir. Show the the most recent first, then by name order.

```
select winner, yr, subject
from nobel
where winner like 'sir%'
order by yr desc, winner
```

Submit SQL   restore default

Correct answer

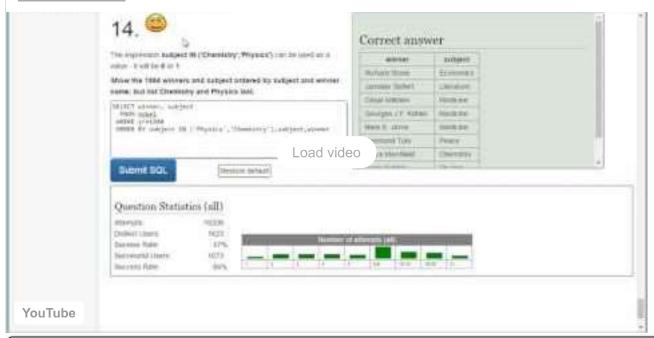| winner	yr	subject
Sir Peter Ratcliffe	2019	medicine
Sir Gregory Winter	2018	chemistry
Sir Fraser Stoddart	2016	chemistry
Sir John Gurdon	2012	medicine
Sir Martin Evans	2007	medicine
Sir Peter Mansfield	2003	medicine
Sir Paul Nurse	2001	medicine
Sir Vidiadhar Surajprasad Naipaul	2001	literature
Sir Harold Kroto	1996	chemistry

Chemistry and Physics last

14.

The expression **subject IN ('chemistry','physics')** can be used as a value - it will be **0** or **1**.

Show the 1984 winners and subject ordered by subject and winner name; but list chemistry and physics last.

sqlzoo Nobel 14


```
select winner, subject
from nobel
where yr=1984
order by subject in ('Physics','Chemistry')
```

Submit SQL   restore default

Correct answer

winner	subject
Richard Stone	economics
Jaroslav Seifert	literature
César Milstein	medicine
GeorgesF. Köhler	medicine
Niels Jerne	medicine
Desmond Mpilo Tutu	peace
Robert Bruce Merrifield	chemistry
Carlo Rubbia	physics
Simon van der Meer	physics

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This page was last modified on 23 October 2023, at 06:23.