

SELECT from Nobel Tutorial

Language: English • 日本語 • 中文

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Chemistry and Physics last

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

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 yr >= 2000 AND subject = 'peace'
```

[Submit SQL](#) [Restore default](#)

Correct answer

winner	
Maria Ressa	
Dmitry Muratov	
World Food Programme (WFP)	
Abiy Ahmed Ali	
Denis Mukwege	
Nadia Murad	
International Campaign to Abolish Nuclear Weapons (ICAN)	

Literature in the 1980's

5. 😊

Show the years (`yr`, `subject`, `winner`) of the literature prize winners for 1980 to 1989 inclusive.

```
SELECT * FROM nobel
WHERE subject = 'Literature' AND (yr BETWEEN 1980 AND 1989)
```

[Submit SQL](#) [Restore default](#)

Correct answer

yr	subject	winner
1989	literature	Camilo José Cela
1988	literature	Naguib Mahfouz
1987	literature	Joseph Brodsky
1986	literature	Wole Soyinka
1985	literature	Claude Simon
1984	literature	Jaroslav Seifert
1983	literature	William Golding

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',
'Jimmy Carter',
'Barack Obama')
```

[Submit SQL](#) [Restore default](#)

Correct answer

yr	subject	winner
2009	peace	Barack Obama
2002	peace	Jimmy Carter
1906	peace	Theodore Roosevelt

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 Goodenough
John O'Keefe
John Mather
John Hall
John Coetzee
John Fenn
John Sulston

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

Exclude Chemists and Medics

9. 😊

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

```
SELECT yr, subject, winner FROM nobel
WHERE yr = 1980 AND subject NOT IN ('chemistry','medicine')
```

[Submit SQL](#) [Restore default](#)

Correct answer

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

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 yr, subject, winner 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 von Behring
1902	Medicine	Ronald Ross
1903	Medicine	Niels Ryberg Finsen
1904	Medicine	Ivan Pavlov
1905	Medicine	Robert Koch
1906	Medicine	Camillo Golgi
1906	Medicine	Santiago Ramón y Cajal

Nobel Quiz

Harder Questions

Umlaut

11. 😊

Find all details of the prize won by PETER GRÜNBERG

Non-ASCII characters

The `ü` in his name has an **umlaut**. You may find this link useful <https://en.wikipedia.org/wiki/%C3%9C#Keyboarding>

```
SELECT * FROM nobel
WHERE winner = 'PETER GRÜNBERG'
```

[Submit SQL](#) [Restore default](#)

Correct answer

yr	subject	winner
2007	Physics	Peter Grunberg

Apostrophe

12. 😊

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

Escaping single quotes

```
SELECT * FROM nobel
WHERE winner = 'EUGENE O''NEILL'
```

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Correct answer

yr	subject	winner
1936	Literature	Eugene O'Neill

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 Martin J. Evans	2007	Medicine
Sir Peter Mansfield	2003	Medicine
Sir Paul Nurse	2001	Medicine
Sir Harold Kroto	1996	Chemistry
Sir James W. Black	1988	Medicine
Sir Arthur Lewis	1979	Economics
Sir Nevill F. Mott	1977	Physics

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.

```
SELECT winner, subject
FROM nobel
WHERE yr=1984
ORDER BY
CASE WHEN subject IN ('physics','chemistry') THEN 1 ELSE 0 END, winner
```

[Submit SQL](#) [Restore default](#)

Correct answer

winner	subject
Richard Stone	Economics
Jaroslav Seifert	Literature
César Milstein	Medicine
Georges J.F. Kohler	Medicine
Niels K. Jerne	Medicine
Desmond Tutu	Peace
Bruce Merrifield	Chemistry

