

# SELECT from Nobel Tutorial

Language: English • 日本語 • 中文

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## 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
```

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## Correct answer

yr	subject	winner
1950	chemistry	Kurt Alder
1950	chemistry	Otto Diels
1950	literature	Bertrand Russell
1950	medicine	Edward Kendall
1950	medicine	Philip Hench
1950	medicine	Tadeus Reichstein
1950	peace	Ralph Bunche
1950	physics	Cecil Powell

## 1962 Literature

# 2.

Show who won the 1962 prize for literature.

```
SELECT winner
FROM nobel
WHERE yr = 1962
AND subject = 'literature'
```

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## 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'
```

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## 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;
```

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## Correct answer

winner
Kim Dae-jung

Kofi Annan
United Nations
Jimmy Carter
Shirin Ebadi
Wangari Maathai
International Atomic Energy Agency

## Literature in the 1980's

### 5.

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

```
SELECT *
FROM nobel
WHERE subject = 'literature'
AND yr >= 1980 AND yr <= 1989;
```

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## Correct answer

yr	subject	winner
1980	literature	Czesław Miłosz
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

## 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'
);
```

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## Correct answer

yr	subject	winner
1906	peace	Theodore Roosevelt
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%'
```

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## Correct answer

winner
John F. Kennedy

John Macleod
John Galsworthy
John Northrop
John Mott
John Cockcroft
John Enders
John Bardeen

## 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 * from nobel where (subject = 'physics' and yr = 1980) or (subject = 'chemistry' and yr = 1984)
```

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## Correct answer

yr	subject	winner
1980	physics	James Cronin
1980	physics	Val Fitch
1984	chemistry	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')
```

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## Correct answer

yr	subject	winner
1980	physics	James Cronin

1980	literature	Czesław Miłosz
1980	peace	Adolfo Pérez Esquivel
1980	physics	James Cronin
1980	physics	Val 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 yr, subject, winner
from nobel
where (subject = 'Medicine' AND yr < 1910)
    or (subject = 'Literature' AND yr >= 2004);
```

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## 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
1907	medicine	Alphonse Laveran

## Harder Questions

### Umlaut

11.

Find all details of the prize won by PETER GRÜNBERG

*Non-ASCII characters*

```
select * from nobel where winner = 'Peter Grünberg'
```

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### 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";
```

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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
```

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## 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 Ronald Norrish	1906	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.

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```
SELECT winner, subject
  FROM nobel
 WHERE yr=1984
ORDER BY case when subject in ('physics', 'chemistry') then 1 else 0 end, subject, winner
```

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## Correct answer

winner	subject
Jaroslav Seifert	literature
César Milstein	medicine
Georges F. Köhler	medicine
Niels Jerne	medicine
Desmond Tutu	peace
Bruce Merrifield	chemistry
Carlo Rubbia	physics
Simon van der Meer	physics

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