SELECT from Nobel Tutorial

`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)
```

nobel

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

Exercises

Using the `SELECT` statement.

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 Diels
1950	Literature	Bertrand Russell
1950	Medicine	Philip S. Hench
1950	Medicine	Edward C. Kendall
1950	Medicine	Tadeus Reichstein
1950	Peace	Ralph Bunche
1950	Physics	Cecil Powell

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

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

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
Martti Ahtisaari
Intergovernmental Panel on Climate Change
Al Gore
Grameen Bank
Muhammad Yunus
International Atomic Energy Agency
Mohamed ElBaradei
Wangari Maathai

5.

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

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

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
1982	Literature	Gabriel García Márquez

6.

Show all details of the presidential winners:

- Theodore Roosevelt
- Woodrow Wilson
- Jimmy Carter

```
SELECT * FROM nobel
 WHERE winner IN ('Theodore Roosevelt',
        'Woodrow Wilson',
        'Jimmy Carter')
```

Submit SQL   Restore default

Correct answer

yr	subject	winner
2002	Peace	Jimmy Carter
1919	Peace	Woodrow Wilson
1906	Peace	Theodore Roosevelt

7.

Show the winners with first name John

```
SELECT winner FROM nobel WHERE winner LIKE 'John%'
```

Submit SQL   Restore default

Correct answer

winner
John C. Mather
John L. Hall
John B. Fenn
John E. Sulston
John Pople
John Hume
John E. Walker
John C. Harsanyi

8.

Show the 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)
```

Submit SQL   Restore default

Correct answer

yr	subject	winner
1984	Chemistry	Bruce Merrifield
1980	Physics	James Cronin
1980	Physics	Val Fitch

9.

Show the winners for 1980 excluding the Chemistry and Medicine

```
SELECT * FROM nobel WHERE yr = 1980 AND subject <> 'Chemistry' AND subject <> 'Medicine'
```

Submit SQL   Restore default

Correct answer

yr	subject	winner
1980	Economics	Lawrence R. Klein
1980	Literature	Czeslaw Milosz
1980	Peace	Adolfo Pérez Esquivel
1980	Physics	James Cronin
1980	Physics	Val Fitch

10.

Show 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
2008	Literature	Jean-Marie Gustave Le Clézio
2007	Literature	Doris Lessing
2006	Literature	Orhan Pamuk
2005	Literature	Harold Pinter
2004	Literature	Elfriede Jelinek
1909	Medicine	Theodor Kocher
1908	Medicine	Paul Ehrlich
1908	Medicine	Ilya Mechnikov

11.

Find the prize won by PETER GRÜNBERG and EUGENE O'NEILL

```
SELECT * FROM nobel WHERE winner = "Peter Grünberg" OR  winner = "EUGENE O'NEILL"
```

Submit SQL   Restore default

Correct answer

yr	subject	winner
2007	Physics	Peter Grünberg
1936	Literature	Eugene O'Neill

12.

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%"
GROUP BY winner
ORDER BY yr DESC
```

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
Sir Bernard Katz	1970	Medicine