SELECT from Nobel Tutorial

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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 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

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
Tunisian National Dialogue Quartet
Kailash Satyarthi
Malala Yousafzai
European Union
Ellen Johnson Sirleaf
Leymah Gbowee
Tawakel Karman
Liu Xiaobo
Barack Obama

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 yr >= 1980 AND yr <= 1989
   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
1981	Literature	Elias Canetti

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', 'Woodrow Wilson', 'Jimmy Carter',
'Barack Obama');
```
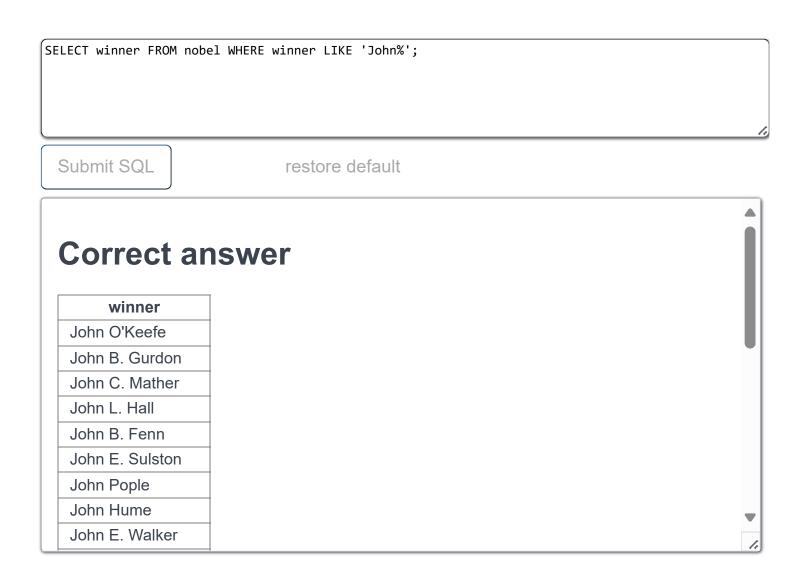
Submit SQL   restore default

Correct answer

yr	subject	winner
2009	Peace	Barack Obama
2002	Peace	Jimmy Carter
1919	Peace	Woodrow Wilson
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 O'Keefe
John B. Gurdon
John C. Mather
John L. Hall
John B. Fenn
John E. Sulston
John Pople
John Hume
John E. Walker

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 = 'Chemistry' and yr=1984
UNION
SELECT yr,subject,winner
    FROM nobel
    WHERE subject = 'Physics' and yr=1980;
```

Submit SQL   restore default

Correct answer

yr	subject	winner
1984	Chemistry	Bruce Merrifield
1980	Physics	James Cronin
1980	Physics	Val 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 NOT subject = 'Chemistry' AND NOT 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

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)

```
 WHERE yr >= 2004
   AND subject = 'Literature'
UNION
SELECT yr, subject, winner
  FROM nobel
 WHERE yr < 1910
   AND subject = 'Medicine';
```

Submit SQL   restore default

Correct answer

yr	subject	winner
2015	Literature	Svetlana Alexievich
2014	Literature	Patrick Modiano
2013	Literature	Alice Munro
2012	Literature	Mo Yan
2011	Literature	Tomas Tranströmer
2010	Literature	Mario Vargas Llosa
2009	Literature	Herta Müller
2008	Literature	Jean-Marie Gustave Le Clézio
2007	Literature	Doris Lessing

Nobel Quiz

Harder Questions

Umlaut

11.

Find all details of the prize won by PETER GRÜNBERG

Non-ASCII characters

The u 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 IN ('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 IN ('Eugene O''Neill');
```

Submit SQL   restore default

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

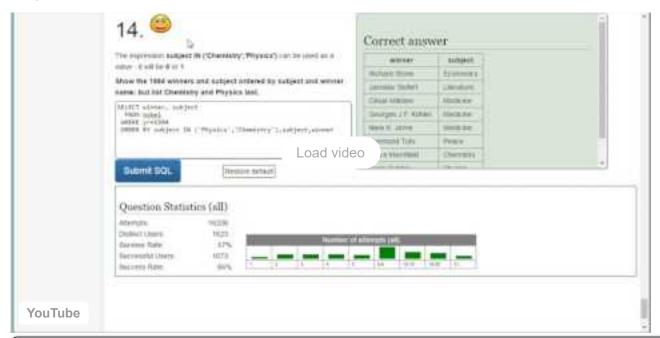|		
Sir John Eccles	1963	Medicine
Sir Frank Macfarlane Burnet	1960	Medicine
Sir Cyril Hinshelwood	1956	Chemistry
Sir Robert Robinson	1947	Chemistry
Sir Alexander Fleming	1945	Medicine
Sir Howard Florey	1945	Medicine
Sir Henry Dale	1936	Medicine
Sir Norman Angell	1933	Peace
Sir Charles Sherrington	1932	Medicine
Sir Venkata Raman	1930	Physics
Sir Frederick Hopkins	1929	Medicine
Sir Austen Chamberlain	1925	Peace
Sir William Ramsay	1904	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.

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 subject IN ('Physics','Chemistry'),subject,winner
```

Submit SQL   Restore default

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Question Statistics (all)

Attempts: 14336
Distinct Users: 1523
Success Rate: 17%
Successful Users: 1073
Success Rate: 66%

```
SELECT winner, subject
FROM nobel
WHERE yr = 1984
ORDER BY subject IN ('Chemistry','Physics'), subject, winner;
```

Submit SQL   restore default

Correct answer

winner	subject
Richard Stone	Economics
Jaroslav Seifert	Literature
César Milstein	Medicine
Georges J.F. Köhler	Medicine
Niels K. Jerne	Medicine
Desmond Tutu	Peace
Bruce Merrifield	Chemistry
Carlo Rubbia	Physics
Simon van der Meer	Physics

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