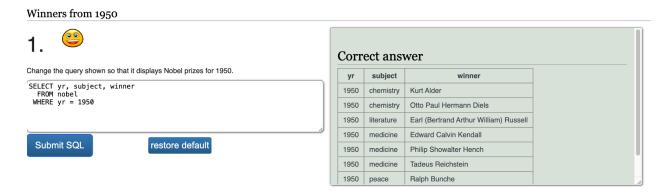# CIT 178 SQLZoo Answers

Part 1

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

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)

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

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')
```

Correct answer

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

Submit SQL   **restore default**

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

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.
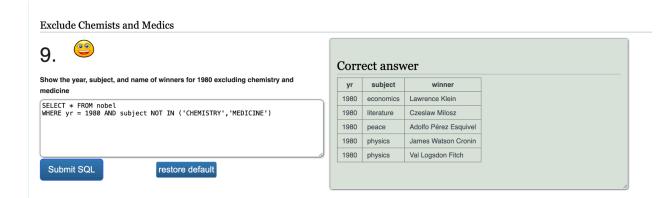
```
SELECT * FROM nobel
WHERE (subject='physics' AND yr = 1980)
OR (subject='chemistry' AND yr = 1984)
```

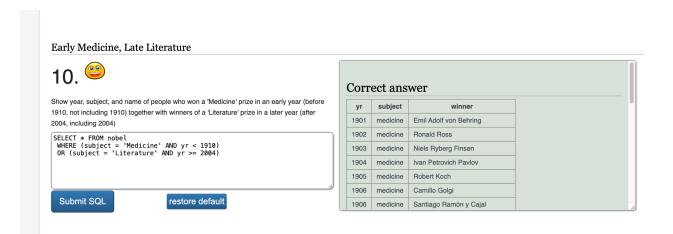**Submit SQL**   **restore default**

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

Part 2

Bigger than Russia

1. 😵

List each country name where the population is larger than that of 'Russia'.

```
world(name, continent, area, population, gdp)
```

```
SELECT name FROM world
 WHERE population >
    (SELECT population FROM world
      WHERE name='Russia')
```

[Submit SQL] [restore default]

Correct answer

name
Bangladesh
Brazil
China
India
Indonesia
Nigeria
Pakistan

Richer than UK

2. 😳

Show the countries in Europe with a per capita GDP greater than 'United Kingdom'.

Per Capita GDP

```
SELECT name
FROM world
WHERE continent = 'Europe'
AND gdp/population > (
  SELECT gdp/population
  FROM world
  WHERE name = 'United Kingdom');
```

[Submit SQL]   [restore default]

Correct answer

name
Austria
Belgium
Denmark
Finland
Germany
Iceland
Liechtenstein

Neighbours of Argentina and Australia

3. 😳

List the name and continent of countries in the continents containing either Argentina or Australia. Order by name of the country.

```
SELECT name, continent FROM world
WHERE continent IN (SELECT continent FROM world WHERE name IN
('Argentina', 'Australia')) ORDER BY name;
```

[Submit SQL]   [restore default]

Correct answer

name	continent
Argentina	South America
Australia	Insular Oceania
Bolivia	South America
Brazil	South America
Chile	South America
Colombia	South America
Ecuador	South America

Between Canada and Poland

Between Canada and Poland

4. 😳

Which country has a population that is more than United Kingdom but less than Germany? Show the name and the population.

```
SELECT name, population FROM world
WHERE population > (SELECT population FROM world WHERE name = 'United
Kingdom') AND population < (SELECT population FROM world WHERE name =
'Germany');
```

[Submit SQL]   [restore default]

Correct answer

name	population
France	68128000
Thailand	68263022

5.

Germany (population 80 million) has the largest population of the countries in Europe. Austria (population 8.5 million) has 11% of the population of Germany.

Show the name and the population of each country in Europe. Show the population as a percentage of the population of Germany.

The format should be *Name, Percentage* for example:

name	percentage
Albania	3%
Andorra	0%
Austria	11%
...	...

Decimal places
Percent symbol %

```
SELECT name, CONCAT(ROUND((population*100)/(SELECT population FROM
world WHERE name='Germany'), 0), '%')FROM world
WHERE population IN (SELECT population
                     FROM world
                     WHERE continent='Europe')
```

Submit SQL   **restore default**

Correct answer

name	CONCAT(ROUND(..
Albania	3%
Andorra	0%
Austria	11%
Belarus	11%
Belgium	14%
Bosnia and Herzegovina	4%
Bulgaria	8%