

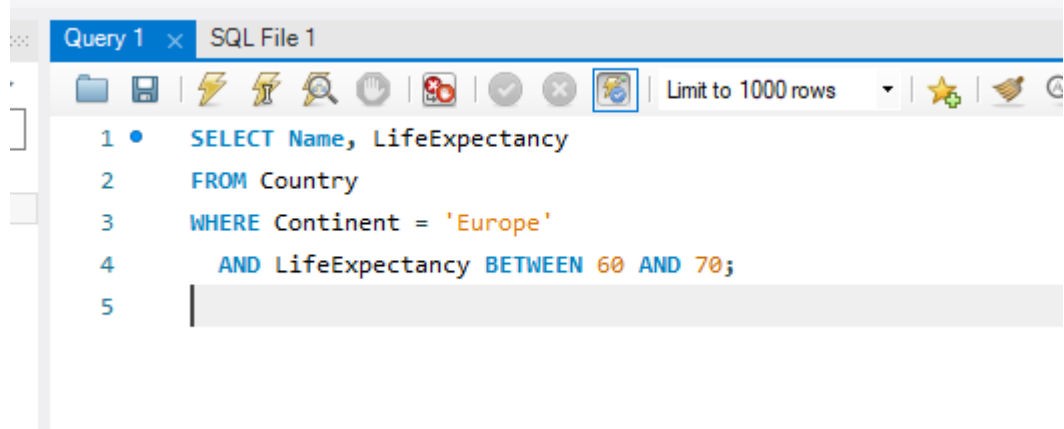
## CE 223 DATABASE SYSTEMS SPRING 2025

### LAB 1 - 26 March 2025

IMPORT THE WORLD DATABASE PROVIDED ON BLACKBOARD AND WRITE THE FOLLOWING 5 QUERIES IN SQL. (EACH QUERY WORTHS 20 POINTS)

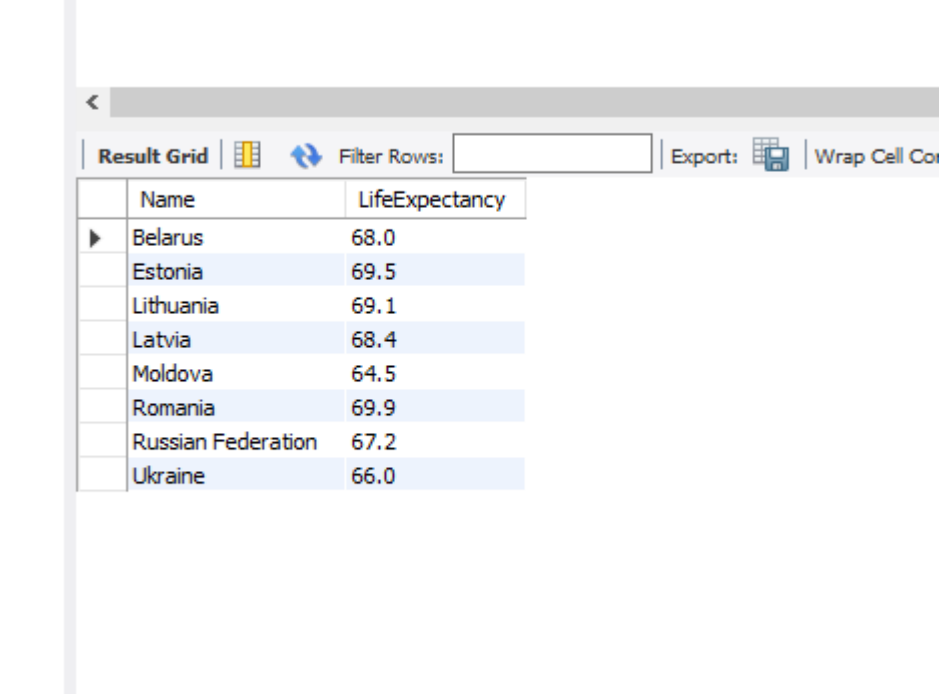
1. Find the European countries (their name & life expectancy) for those countries with life expectancy between 60 and 70.

SQL Query



```
1 • SELECT Name, LifeExpectancy
2 FROM Country
3 WHERE Continent = 'Europe'
4 AND LifeExpectancy BETWEEN 60 AND 70;
5
```

Result Rows



	Name	LifeExpectancy
▶	Belarus	68.0
	Estonia	69.5
	Lithuania	69.1
	Latvia	68.4
	Moldova	64.5
	Romania	69.9
	Russian Federation	67.2
	Ukraine	66.0

2. Find the number of official languages.

SQL Query

```
SELECT COUNT(DISTINCT Language)
FROM CountryLanguage
WHERE IsOfficial = 'T';
```

Result Rows

The screenshot shows a SQL query result grid. The grid has a single column with the header 'COUNT(DISTINCT Language)' and a single row with the value '102'. The grid is part of a larger interface with a toolbar containing options like 'Result Grid', 'Filter Rows', 'Exports', and 'Wrap Cell Content'.

COUNT(DISTINCT Language)
102

3. Find all country names and their independence year for countries which have gained their dependence at some point. Order the results by the independence year (ascending).

SQL Query

```
SELECT Name, IndepYear
FROM Country
WHERE IndepYear IS NOT NULL
ORDER BY IndepYear ASC;
```

Result Rows

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```

3 WHERE IndepYear IS NOT NULL
4 ORDER BY IndepYear ASC;
5

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Name	IndepYear
China	-1523
Ethiopia	-1000
Japan	-660
Denmark	800
Sweden	836
France	843
San Marino	885
United Kingdom	1066
Portugal	1143
Andorra	1278
Thailand	1350
Spain	1492
Switzerland	1499
Netherlands	1581
Nepal	1769
United States	1776
Haiti	1804
Liechtenstein	1806
Chile	1810
Colombia	1810

Schemas

ship

Country 2 x

Output

Action Output

4. Find the country names and the names of their capitals for countries which have the same capital names as their country names.

SQL Query

```

SELECT b.Name AS CountryName, bi.Name AS CapitalName
FROM country b
JOIN city bi ON b.Capital = bi.ID
WHERE b.Name = bi.Name;

```

Result Rows

CountryName	CapitalName
Djibouti	Djibouti
Gibraltar	Gibraltar
Kuwait	Kuwait
Macao	Macao
Singapore	Singapore
San Marino	San Marino

5. Find the country name, the language name and percentage of that language for the most spoken unofficial language for each country.

SQL Query

```

SELECT
  co.Name AS CountryName,
  cl.Language,
  cl.Percentage
FROM
  countrylanguage cl
JOIN
  country co ON cl.CountryCode = co.Code
WHERE
  cl.IsOfficial = 'F'
AND (cl.CountryCode, cl.Percentage) IN (
  SELECT
    CountryCode, MAX(Percentage)
  FROM
    countrylanguage
  WHERE
    IsOfficial = 'F'
  GROUP BY
    CountryCode
);

```

Result Rows

--

14 FROM

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CountryName	Language	Percentage
Aruba	Papiamentu	76.7
Afghanistan	Uzbek	8.8
Angola	Ovimbundu	37.2
Albania	Greek	1.8
Andorra	Spanish	44.6
Netherlands Antilles	English	7.8
United Arab Emirates	Hindi	0.0
Argentina	Italian	1.7
Armenia	Azerbaijani	2.6
American Samoa	Tongan	3.1
Antigua and Barbuda	Creole Eng...	95.7
Australia	Italian	2.2
Austria	Serbo-Cro...	2.2
Azerbaijan	Russian	3.0
Burundi	Swahili	0.0
Belgium	Italian	2.4
Benin	Fon	39.8
Burkina Faso	Mossi	50.2
Bangladesh	Chakma	0.4
Bulgaria	Turkish	9.4
Bahrain	English	0.0
Bahamas	Creole Eng...	89.7
Belarus	Ukrainian	1.3

Result 2 x

Output

Action Output

#	Time	Action
13	14:38:50	SELECT Name, IndepYear FROM Country WHERE IndepYear IS NOT NULL ORDER BY IndepYear desc LIMIT 0, 1000

**HONOR CODE:**

On my honor, as an Izmir University of Economics student, I affirm that I will not give or receive any unauthorized help on this assignment, and that all work will be my own. The effort in the assignment belongs completely to me.