

# **Informação**

# **Política Sobre os Países**

# **do Mundo**

Relatório do Trabalho Prático



Universidade de Évora  
Curso: Engenharia Informática  
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# 1. Chaves

economy (Country, GDP, Agriculter, Industry, Inflaction, Unemployment)

- Superchaves: Country, {Country, GDP}, {Country, Agriculter}, {Country, Industry}, {Country, Inflaction}, {Country, Unemployment}, {Country, GDP, Agriculter}, {Country, GDP, Industry}, {Country, GDP, Inflaction}, {Country, GDP, Unemployment}, {Country, GDP, Inflaction}, {Country, GDP, Unemployment}, {Country, Agriculter, Industry}, {Country, Agriculter, Inflaction}, {Country, Agriculter, Unemployment}, {Country, Industry, Inflaction}, {Country, Industry, Unemployment}, {Country, Inflaction, Unemployment}, {Country, GDP, Agriculter, Industry}, {Country, GDP, Agriculter, Inflaction}, {Country, GDP, Agriculter, Unemployment}, {Country, GDP, Industry, Inflaction}, {Country, GDP, Industry, Unemployment}, {Country, GDP, Inflaction, Unemployment}, {Country, GDP, Agriculture, Unemployment}, {Country, GDP, Inflaction, Unemployment}, {Country, Agriculture, GDP, Inflation}, {Country, Agriculture, GDP, Unemployment}, {Country, Agriculture, Industry, Inflation}, {Country, Agriculture, Industry, Unemployment}, {Country, Agriculture, Inflation, Unemployment}, {Country, GDP, Industry, Inflation}, {Country, GDP, Industry, Unemployment}, {Country, GDP, Inflation, Unemployment}, {Country, Industry, Inflation, Unemployment}, {Country, GDP, Industry, Inflation, Unemployment}
- Chaves candidatas: Country
- Chaves estrangeiras: Country da relação Country (corresponde country code)

## organization(Name, Abbreviation, City, Country, Province) –28

- Superchaves: {Name}, {Name, Abbreviation}, {Name, City}, {Name, Country}, {Name, Province}, {Abbreviation, City}, {Abbreviation, Country}, {Abbreviation, Province}, {City, Country}, {City, Province}, {Country, Province}, {Name, Abbreviation, City}, {Name, Abbreviation, Country}, {Name, Abbreviation, Province}, {Name, City, Country}, {Name, City, Province}, {Name, Country, Province}, {Abbreviation, City, Country}, {Abbreviation, City, Province}, {Abbreviation, Country, Province}, {City, Country, Province}, {Name, Abbreviation, City, Country}, {Name, Abbreviation, City, Province}, {Name, Abbreviation, Country, Province}, {Name, City, Country, Province}, {Name, Abbreviation, City, Country, Province}
- Chaves candidatas: Name
- Chaves estrangeiras: Country da relação Country (corresponde country code)

## isMember(Organization, Country, Type)

- Superchaves: {Organization, Country}, {Organization, Type}, {Country, Type}, {Organization, Country, Type}
- Chaves candidatas: {Organization, Country}
- Chaves estrangeiras: Country da relação Country (corresponde country code); Organization da relação Organization (corresponde Organization Abbreviation).

## 2. Criação de uma rede social

### a) membro (Nome, Email, Ano)

- Superchaves: {Nome}, {Email}, {Nome, Email}, {Nome, Ano}, {Email, Ano}, {Nome, Email, Ano}
- Chaves candidatas: Nome
- Chaves estrangeiras: Nome da relação membro; Country da relação Country.

### gostaDe (Nome, Country)

- Superchaves: {Nome, Country}
- Chaves candidatas: {Nome, Country}
- Chaves estrangeiras: Country da relação Country

### b) CREATE table membro(

create table membro(

nome char(40),

email char(40),

ano integer,

PRIMARY key(nome))

```
create gostaDe
```

```
create table gostaDe(
```

```
nome char(40),
```

```
country char(30),
```

```
FOREIGN key(nome) references membro(nome),
```

```
FOREIGN key(country) references country(name)
```

```
)Membros
```

c)

```
insert into membro values ('Manuel Toad' , 'somasoma@gmail.com',  
'1976');
```

```
insert into membro values ('Ryūnosuke Tanaka' ,  
'kiyoko4life@gmail.com', '1996');
```

```
insert into membro values (' Super Mario ' ,  
'mushroom_killer@gmail.com', '1981');
```

```
insert into membro values ('Venom' , 'letalprotector@gmail.com',  
'2018');
```

```
insert into membro values ('Saitama' ,  
'one_punch_man@gmail.com', '2009');
```

```
insert into membro values ('Migi' , 'handful_person@gmail.com',  
'2002');
```

```
insert into membro values ('Bruce Banner' , 'gogreen@gmail.com',  
'1986');
```

```
insert into membro values ('Anakin Skywalker',  
'dontlikesand@yahoo.com', 1999);
```

```
insert into membro values ('Sasha Braus',  
'potato.girl247@gmail.com', 2002);
```

```
insert into membro values ('Agatha Harkness',  
'its.been.agatha.all.along@hotmail.com', 1970)
```

insert into membro values ('Yelena Belova',  
'notaposer@hotmail.com', 1988)

insert into membro values ('Drax', 'why.gamora@gmail.com', 1984)

insert into membro values ('Guilherme Antas',  
'they\_call\_me\_gui@yahoo.com', 2002);

insert into membro values ('Steven Strange',  
'whatmasterdoyouserve@gmail.com', 1932);

insert into membro values ('Yukio', 'mylittleponygf@gmail.com',  
1986);

Nome	Email	Ano
Manel Toad	somasoma@gmail.com	1976
Ryûnosuke Tanaka	kiyoko4life@gmail.com	1996
Super Mario	mushroom_killer@gmail.com	1981
Venom	letalprotector@gmail.com	2018
Saitama	one_punch_man@gmail.com	2009
Migi	handful_person@outlook.com	1993
Bruce Banner	gogreen@gmail.com	1986
Anakin Skywalker	idontlikesand@yahoo.com	1999
Sasha Braus	potato.girl247@gmail.com	2002
Agatha Harkness	its.been.agatha.all.along@hotmail.com	1970
Yelena Belova	notaposer@hotmail.com	1988
Drax	why.gamora@gmail.com	1984
Guilherme Antas	they_call_me_gui@yahoo.com	2002
Steven Strange	whatmasterdoyouserve@gmail.com	1932
Yukio	mylittleponygf@gmail.com	1986

```
insert into gostade (nome , country)

select 'Manuel Toad', country.name

from encompasses, country

where country.code = encompasses.country and

      encompasses.continent = 'Europe'
```

```
insert into gostade (nome , country)

select ' Ryûnosuke Tanaka', country.name

from encompasses, country

where country.code = encompasses.country and

      encompasses.continent = 'Europe'
```

```
insert into gostade (nome , country)

select ' Super Mario', country.name

from encompasses, country

where country.code = encompasses.country and

      encompasses.continent = 'Europe'
```

```
insert into gostade (nome , country)

select ' Venom', country.name

from encompasses, country

where country.code = encompasses.country and

      encompasses.continent = 'Europe'
```



```
insert into gostade (nome , country)

select 'Saitama', country.name

from encompasses, country

where country.code = encompasses.country and

      encompasses.continent = 'Europe'
```

```
insert into gostade (nome , country)

select 'Migi', country.name

from organization, ismember, country

where organization.abbreviation = ismember.organization and

      ismember.country = country.code and

      organization.name = 'European Union'
```

```
insert into gostade (nome , country)

select 'Bruce Banner', country.name

from organization, ismember, country

where organization.abbreviation = ismember.organization and

      ismember.country = country.code and

      organization.name = 'European Union'
```

```
insert into gostade (nome , country)

select 'Anakin Skywalker', country.name

from organization, ismember, country

where organization.abbreviation = ismember.organization and
```

```
ismember.country = country.code and  
organization.name = 'European Union'
```

```
insert into gostade (nome , country)
```

```
select 'Sasha Braus', country.name  
from organization, ismember, country  
where organization.abbreviation = ismember.organization and  
ismember.country = country.code and  
organization.name = 'European Union'
```

```
insert into gostade (nome , country)
```

```
select 'Agatha Harkness', country.name  
from organization, ismember, country  
where organization.abbreviation = ismember.organization and  
ismember.country = country.code and  
organization.name = 'European Union'
```

```
insert into gostade (nome , country)
```

```
select 'Yelena Belova', country.name  
from country, language  
where country.code = language.country and  
language.name = 'Portuguese' and  
language.percentage > 0
```

insert into gostade (nome , country)

select 'Drax', country.name

from country, language

where country.code = language.country and

language.name = 'Portuguese' and

language.percentage > 0

insert into gostade (nome , country)

select 'Guilherme Antas', country.name

from country, language

where country.code = language.country and

language.name = 'Portuguese' and

language.percentage > 0

insert into gostade (nome , country)

select 'Steven Strange', country.name

from country, language

where country.code = language.country and

language.name = 'Portuguese' and

language.percentage > 0

```
insert into gostade (nome , country)
```

```
select 'Yukio', country.name
```

```
from country, language
```

```
where country.code = language.country and
```

```
language.name = 'Portuguese' and
```

```
language.percentage > 0
```

### 3. Expressões de álgebra Relacional/SQL

a) Quais os nomes dos países que pertencem à União Europeia?

$$\pi_{country.name} [\sigma_{(organization.abreviation = isMember \wedge (organization \times isMember \times country))} \\ isMember.country = country.code \wedge \\ organization.name = 'European Union')]$$

select country.name

from organization, ismember, country

where organization.abbrviation = ismember.organization

and ismember.country = country.code

and organization.name = 'European Union'

b) Que países estão na Europa mas não pertencem à União Europeia?

$$\pi_{country.name} [\sigma_{country.code = encompasses \wedge encompasses.continent = 'Europe'} \\ (country)] - \pi_{country.name} [\sigma_{(organization.abreviation = isMember \wedge \\ isMember.country = country.code \wedge \\ organization.name = 'European Union') \\ (organization \times isMember \times country)}]$$

select country.name

from encompasses, country

where country.code = encompasses.country and

encompasses.continent = 'Europe'

except

select country.name

from organization, ismember, country

where organization.abbrviation = ismember.organization and

ismember.country = country.code and

organization.name = 'European Union'

- c) Para cada país da União Europeia indique o seu produto interno bruto (GDP)?

$$\pi_{country.name, economy.gdp}[\sigma(organization.abbreviation = ismember.organization \wedge ismember.country = country.code \wedge organization.name = 'European Union' \wedge economy.country = country.code) \\ (country \times economy \times ismember \times organization)]$$

```
select country.name, economy.gdp
from country, economy, organization, ismember
where      organization.abbreviation = ismember.organization
           and ismember.country = country.code
           and organization.name = 'European Union'
           and economy.country = country.code
```

- d) Qual é o país da Europa que tem o menor produto interno bruto?

$$n \Leftarrow (country \times economy \times encompasses)$$
$$s \Leftarrow \sigma(economy.country = country.code \wedge country.code = encompasses.country \wedge encompasses.continent = 'Europe')(r)$$

country.name  $\mathcal{G}$  min(economy.gdp) as n(s)

```
with values(country, n) as (select country.name, economy.gdp
from country, economy, encompasses
where country.code = encompasses.country and
country.code = economy.country and
```

encompasses.continent = 'Europe' )

```
select country
      from (select min(n) as n
            from values) as r, values
      where r.n = values.n
```

e) Para cada organização indique o número de países membros.

*organization.name*  $\mathcal{G}$  *count(ismember.country)* as *n* [ $\sigma(\text{organization.abbreviation} = \text{ismember.organization})$  (organization x ismember) ]

```
select organization.name, count(ismember.country)
      from organization, ismember
      where organization.abbreviation = ismember.organization
group by organization.name
```

f) Para cada país indique o número de organizações a que pertence.

*country.name*  $\mathcal{G}$  *count(ismember.organiztion)* as *n* (*country*  $\times$  *ismember*)

```
select country.name, count(ismember.organization)
      from country, ismember
      where country.code = ismember.country
group by country.name
```

g) Qual é o país que pertence a mais organizações?

$s \leftarrow \sigma(\text{country.code} = \text{ismember.count}(\text{country} \times \text{ismember}))$

$r \leftarrow \text{country.name} \mathrel{G} \text{count}(\text{ismember.organization}) \text{ as } n(s)$

$\pi_{\text{country.name}}(\mathrel{G} \text{max}(n) \text{ as } n(d) \bowtie d)$

with values (country, n) as (select country.name as paises,  
count(ismember.organization) as organizacoes

from country, ismember

where country.code = ismember.country

group by country.name)

select country

from(select max(n) as n

from values) as r, values

where r.n = values.n

h) Qual é organização que tem menos países?

$s \leftarrow \sigma(\text{organization.abbreviation} = \text{ismember.organization} (\text{organization} \times \text{ismember}))$

$r \leftarrow \text{organization.name} \mathrel{G} \text{count}(\text{ismember.country}) \text{ as } n(r)$

$\pi_{\text{organization.name}}(\mathrel{G} \text{min}(n) \text{ as } n(r) \bowtie r)$

with values (org, n) as ( select organization.name,  
count(ismember.country)

from organization, ismember

where organization.abbreviation = ismember.organization



group by organization.name)

select org

from (select min(n) as n from values) as r, list

where r.n = list.n

i) Qual é o país que tem o maior produto interno?

$r \leftarrow (country \times economy)$

$s \leftarrow \sigma(country.code = economy.country)^{(r)}$

$country.name \mathrel{\mathcal{G}} count(economy.gdp) \text{ as } n(s)$

with value(country, n) as (select country.name, economy.gdp

from country, economy

where country.code = economy.country

)

select country

from(select max(n) as n

from data) as d, data

where d.n = data.n

j) Que países são membros de todas as organizações de que Marrocos é membro?

$\pi_{country.name, organization.name}(\sigma(organization.abbreviation$   
 $= ismember.organization \wedge ismember.country = country.code))$

÷

$\pi_{organization.name}(\sigma(organization.abbreviation$   
 $= ismember.organization \wedge ismember.country$   
 $= country.code \wedge country.name = 'Morocco'))$

```

select name
from country as c
where not exists (select organization.name
                  from organization, ismember, country
                  where organization.abbreviation = ismember.organization
                  and ismember.country = country.code
                  and country.name = 'Morocco'
except
select organization.name
from organization, ismember
where organization.abbreviation = ismember.organization
      and ismember.country = c.code )

```

k) Que organizações têm como membros todos os países que estão no Benelux?

$$\pi_{organization.name, country.name} [\sigma_{(country.code = ismember.country \wedge ismember.organization = abbreviation)} (country \times ismember \times organization)] \div \\
 \pi_{country.name} [\sigma_{(country.code = ismember.country \wedge ismember.organization = 'Benelux')} (country \times ismember)]$$

```

select name
from organization as o
where not exists(select country.name
                from country, ismember

```

```
where country.code = ismember.country and  
ismember.organization = 'Benelux'  
  
except  
  
select country.name  
  
from country, ismember  
  
where country.code = ismember.country and  
ismember.organization = o.abbreviation)
```

## 4. Tabelas

a) Quais os nomes dos países que pertencem à União Europeia?

name
Greece
Cyprus
North Macedonia
Serbia
Montenegro
France
Spain
Czech Republic
Slovakia
Germany
Hungary
Italy
Austria
Estonia
Latvia
Lithuania
Poland
Belgium
Luxembourg
Netherlands
Slovenia
Croatia
Bulgaria
Romania
Denmark
Iceland
Ireland
Finland
Sweden

name
Malta
Portugal
United Kingdom
Turkey

b) Que países estão na Europa mas não pertencem à União Europeia?

name
Andorra
Faroe Islands
Switzerland
Russia
Norway
Belarus
San Marino
Albania
Vatican City
Ukraine
Liechtenstein
Moldova
Svalbard
Guernsey
Monaco
Isle of Man
Kazakhstan
Kosovo
Jersey
Bosnia and Herzegovina
Gibraltar

c) Para cada país da União Europeia indique o seu produto interno bruto (GDP)?

name	gdp
Austria	417900
Belgium	507400
Bulgaria	53700
Croatia	59140
Cyprus	21780
Czech Republic	194800
Denmark	324300
Estonia	24280
Finland	259600
France	2739000
Germany	3593000
Greece	243300
Hungary	130600
Iceland	14590
Ireland	220900
Italy	2068000
Latvia	30380

name	gdp
Lithuania	46710
Luxembourg	60540
Malta	9541
Montenegro	4518
Netherlands	722300
North Macedonia	10650
Poland	513900
Portugal	219300
Romania	188900
Serbia	43680
Slovakia	96960
Slovenia	46820
Spain	1356000
Sweden	552000
Turkey	821800
United Kingdom	2490000

d) Qual é o país da Europa que tem o menor produto interno bruto?

country
Gibraltar

e) Para cada organização indique o número de países membros.

name	count
Economic and Monetary Community of Central Africa	7
Visegrád Group	4
International Court of Justice	70
Group of 7	7
Organization for Economic Cooperation and Development	34
Southern African Customs Union	5
Indian Ocean Commission	5
Community of Latin American and Caribbean States	33
Central African States Development Bank	9
United Nations Mission for the Referendum in Western Sahara	30
United Nations Interim Force in Lebanon	37
Arab Bank for Economic Development in Africa	17
United Nations Security Council	15
United Nations Operation in Cote d'Ivoire	44
South Asia Co-operative Environment Program	8
Central American Bank for Economic Integration	12
Islamic Development Bank	55
Community of Democracies	112
Conference of Interaction and Confidence-Building Measures in Asia	32
International Criminal Police Organization	201
International Mobile Satellite Organization	98
Financial Action Task Force	37
Nonaligned Movement	136
Group of 77	132
Arab Maghreb Union	5
Council of the Entente	5
Nordic Investment Bank	8
Asia-Pacific Economic Cooperation	21
Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation	7
Group of 3	2
Inter-Governmental Authority on Development	22

Australia-New Zealand-United States Security Treaty	3
ASEAN Regional Forum	26
International Monetary Fund	191
Extractive Industry Transparency Initiative	53
South Pacific Regional Trade and Economic Cooperation Agreement	16
World Customs Organization	179
East African Development Bank	4
European Bank for Reconstruction and Development	64
European Investment Bank	28
Inter-American Development Bank	48
Asian Development Bank	67
International Organization for Standardization	163
Central American Common Market	5
Zangger Committee	39
World Trade Organization	183
International Trade Union Confederation	154
World Federation of Trade Unions	125
United Nations Relief and Works Agency for Palestine Refugees in the Near East	25
United Nations Military Observer Group in India and Pakistan	9
Union of South American Nations	14
Black Sea Economic Cooperation Zone	24
Organization of American States	102
Council of Arab Economic Unity	21
United Nations Truce Supervision Organization	24
Food and Agriculture Organization	194
Developing Eight	8
United Nations Organization Stabilization Mission in the Democratic Republic of the Congo	49
North American Free Trade Agreement	3
International Energy Agency	28
Group of 24	25
Economic Community of West African States	15
International Maritime Organization	171
Group of 11	11



East African Community	5
International Telecommunication Union	191
Organization for Security and Cooperation in Europe	57
International Civil Aviation Organization	189
Benelux Union	3
Caribbean Development Bank	26
Organization of Arab Petroleum Exporting Countries	11
Council of Europe	53
Nuclear Energy Agency	31
Multilateral Investment Guarantee Agency	176
Gulf Cooperation Council	6
Group of 5	5
United Nations Conference on Trade and Development	192
Permanent Court of Arbitration	115
Commonwealth of Independent States	11
Economic Community of the Great Lakes Countries	3
Australia Group	41
International Organization for Migration	163
International Atomic Energy Agency	163
International Fund for Agricultural Development	171
Arab Fund for Economic and Social Development	20
World Meteorological Organization	183
International Federation of Red Cross and Red Crescent Societies	187
United Nations Disengagement Observer Force	6
African, Caribbean, and Pacific Group of States	79
European Free Trade Association	4
North Atlantic Treaty Organization	29
Secretariat of the Pacific Community	26
Group of 20	19
United Nations Interim Security Force for Abyei	28
Inter-Parliamentary Union	162
Group of 8	7
United Nations Industrial Development Organization	172

Euro-Atlantic Partnership Council	50
Latin American Integration Association	31
European Central Bank	18
United Nations Mission in the Republic of South Sudan	54
Nordic Council	10
General Confederation of Trade Unions	10
East Asia Summit	18
Group of 9	9
International Olympic Committee	202
Arab Monetary Fund	21
Convention of the Southeast European Law Enforcement Center	28
Baltic Assembly	3
International Finance Corporation	182
African Development Bank Group	78
Organization of Eastern Caribbean States	9
Comuinidade dos Pais de Lingua Portuguesa	11
Council of the Baltic Sea States	21
European Organization for Nuclear Research	25
Colombo Plan	27
United Nations Mission in Liberia	43
United Nations	194
Latin American and Caribbean Economic System	28
Economic Cooperation Organization	10
European Space Agency	23
European Union	33
Organization for Democracy and Economic Development	4
Agency for the Prohibition of Nuclear Weapons in Latin America and the Caribbean	33
Shanghai Cooperation Organization	14
World Tourism Organization	161
International Criminal Court	122
Andean Community	10
Group of 15	17
Eurasian Economic Community	9

Central American Integration System	23
International Organization of the French-speaking World	74
International Chamber of Commerce	127
United Nations Educational, Scientific, and Cultural Organization	202
League of Arab States	24
Association of Southeast Asian Nations	21
International Hydrographic Organization	84
Nuclear Suppliers Group	48
International Labor Organization	183
Southern African Development Community	15
United Nations Institute for Training and Research	12
United Nations High Commissioner for Refugees	87
International Bank for Reconstruction and Development	186
Collective Security Treaty Organization	7
Central European Initiative	18
Alliance of Small Island States	46
World Health Organization	191
Common Market for Eastern and Southern Africa	19
United Nations Integrated Mission in Timor-Leste	15
Partnership for Peace	22
Organization of Islamic Cooperation	59
Caribbean Community and Common Market	28
Organization of Petroleum Exporting Countries	12
Southern Cone Common Market	12
International Development Association	172
Bank for International Settlements	59
Economic and Monetary Union	18
South Asian Association for Regional Cooperation	16
Pacific Islands Forum	36
Commonwealth	53
African Union	54
World Intellectual Property Organization	184
Universal Postal Union	227

United Nations Peacekeeping Force in Cyprus	13
Group of 10	11
Franc Zone	16
African Union/United Nations Hybrid Operation in Darfur	47
Organization for the Prohibition of Chemical Weapons	192
International Telecommunication Satellite Organization	150

f) Para cada país indique o número de organizações a que pertence.

name	count
Bangladesh	61
Mayotte	1
Venezuela	53
Luxembourg	61
Czech Republic	59
Sweden	73
Dominican Republic	53
Saint Helena	1
Ireland	51
Cambodia	47
Singapore	45
San Marino	26
Laos	38
Portugal	68
Malta	50
Colombia	57
Albania	49
Ukraine	64
Saudi Arabia	54
Sao Tome and Principe	39
Cote d'Ivoire	51
Latvia	52

North Korea	26
Algeria	57
Cape Verde	42
Slovakia	62
Maldives	39
Israel	45
Malaysia	58
Kenya	55
Zambia	48
Kuwait	52
Bosnia and Herzegovina	50
Liberia	41
Benin	55
Cyprus	54
Nigeria	66
Tajikistan	51
Guam	5
China	69
New Caledonia	5
Armenia	48
Qatar	52
Congo, Dem.Rep.	50
Gabon	46
Martinique	2
Australia	68
Dominica	41
Serbia	59
British Virgin Islands	7
Libya	50
Reunion	2
Vanuatu	41
Wallis and Futuna	3
Congo	45

United Arab Emirates	50
Georgia	49
Belgium	73
Guernsey	1
Monaco	28
Curacao	9
Solomon Islands	31
Montserrat	5
Thailand	56
El Salvador	53
Uruguay	54
United Kingdom	77
Germany	79
Eritrea	38
Canada	76
Barbados	43
Saint Vincent and the Grenadines	37
Marshall Islands	28
Namibia	47
Cook Islands	20
Slovenia	58
Azerbaijan	54
Greece	66
Egypt	65
Afghanistan	45
Chad	45
Timor-Leste	39
Chile	60
Saint Kitts and Nevis	36
Norfolk Island	1
Suriname	46
South Africa	57
Peru	63

Isle of Man	1
Kazakhstan	51
Kosovo	7
Japan	77
Macao	10
Jamaica	45
Pitcairn	2
Iraq	47
New Zealand	62
Ecuador	57
Russia	74
Norway	69
Pakistan	63
Brazil	70
Guatemala	57
Bolivia	53
Ethiopia	48
Panama	50
Yemen	52
South Sudan	22
Tunisia	59
Sudan	50
Mali	47
North Macedonia	48
Morocco	55
Moldova	51
Myanmar	41
Mexico	67
Guyana	46
Poland	67
French Guiana	2
Lebanon	48
Turks and Caicos Islands	4

Virgin Islands	3
Indonesia	60
Kiribati	29
Cameroon	54
Montenegro	50
Uganda	53
Jordan	57
Papua New Guinea	48
Sri Lanka	58
American Samoa	6
Uzbekistan	43
Brunei	37
Finland	73
Cayman Islands	6
Grenada	37
Cuba	40
Tokelau	5
Kyrgyzstan	51
France	87
Djibouti	48
Syria	44
Nauru	22
Ghana	56
Senegal	57
Iceland	52
Hong Kong	15
Madagascar	47
Sierra Leone	47
Philippines	45
Tuvalu	25
United States	79
Guinea	49
Turkey	68



Rwanda	48
Zimbabwe	45
Comoros	45
Saint Lucia	42
Belarus	49
Netherlands	73
Lesotho	42
Paraguay	55
Mauritius	53
Angola	41
Bahrain	47
Spain	72
Saint Barthelemy	1
Saint Pierre and Miquelon	2
Falkland Islands	1
Malawi	48
Burundi	42
Taiwan	7
Bhutan	33
Togo	53
Niue	12
Burkina Faso	50
Faroe Islands	5
Italy	82
Oman	43
Eswatini	41
Fiji	47
Palau	26
Anguilla	5
South Korea	71
Sint Maarten	7
Bermuda	7
Argentina	66

Liechtenstein	22
Bahamas	42
Puerto Rico	7
India	71
Iran	52
French Polynesia	4
Micronesia	26
Gambia	46
Estonia	58
Vietnam	44
Central African Republic	39
Guadeloupe	2
Denmark	70
Trinidad and Tobago	49
Mongolia	51
Mauritania	49
Mozambique	50
Northern Mariana Islands	2
Switzerland	69
Seychelles	42
Hungary	65
Honduras	52
Belize	45
Botswana	44
Romania	63
Austria	71
Guinea-Bissau	44
Niger	49
Vatican City	19
Lithuania	52
Western Sahara	1
Bulgaria	57
Croatia	63

Turkmenistan	38
Aruba	10
Nicaragua	47
Tonga	35
Nepal	52
Tanzania	53
Saint Martin	1
Greenland	2
Costa Rica	51
Jersey	1
Gibraltar	3
Haiti	49
Samoa	36
Equatorial Guinea	37
Antigua and Barbuda	39
Andorra	21
Somalia	41

g) Qual é o país que pertence a mais organizações?

<b>country</b>
France

h) Qual é organização que tem menos países?

<b>org</b>
Group of 3

i) Qual é o país que tem o maior produto interno?

<b>org</b>
United States

- j) Que países são membros de todas as organizações de que Marrocos é membro?

name
Morocco

- k) Que organizações têm como membros todos os países que estão no Benelux?

name
Asian Development Bank
Australia Group
Bank for International Settlements
Benelux Union
Community of Democracies
Council of Europe
Economic and Monetary Union
Euro-Atlantic Partnership Council
European Bank for Reconstruction and Development
European Central Bank
European Investment Bank
European Space Agency
European Union
Financial Action Task Force
Food and Agriculture Organization
Inter-Parliamentary Union
International Atomic Energy Agency
International Bank for Reconstruction and Development
International Chamber of Commerce
International Civil Aviation Organization
International Court of Justice
International Criminal Court
International Criminal Police Organization
International Development Association

International Energy Agency
International Federation of Red Cross and Red Crescent Societies
International Finance Corporation
International Fund for Agricultural Development
International Labor Organization
International Maritime Organization
International Monetary Fund
International Olympic Committee
International Organization for Migration
International Organization for Standardization
International Telecommunication Satellite Organization
International Telecommunication Union
International Trade Union Confederation
Multilateral Investment Guarantee Agency
North Atlantic Treaty Organization
Nuclear Energy Agency
Nuclear Suppliers Group
Organization for Economic Cooperation and Development
Organization for Security and Cooperation in Europe
Organization for the Prohibition of Chemical Weapons
Organization of American States
Permanent Court of Arbitration
United Nations
United Nations Conference on Trade and Development
United Nations Educational, Scientific, and Cultural Organization
United Nations High Commissioner for Refugees
United Nations Industrial Development Organization
United Nations Relief and Works Agency for Palestine Refugees in the Near East
Universal Postal Union
World Customs Organization
World Health Organization
World Intellectual Property Organization
World Meteorological Organization

World Trade Organization
Zangger Committee