

Boubacar Traoré

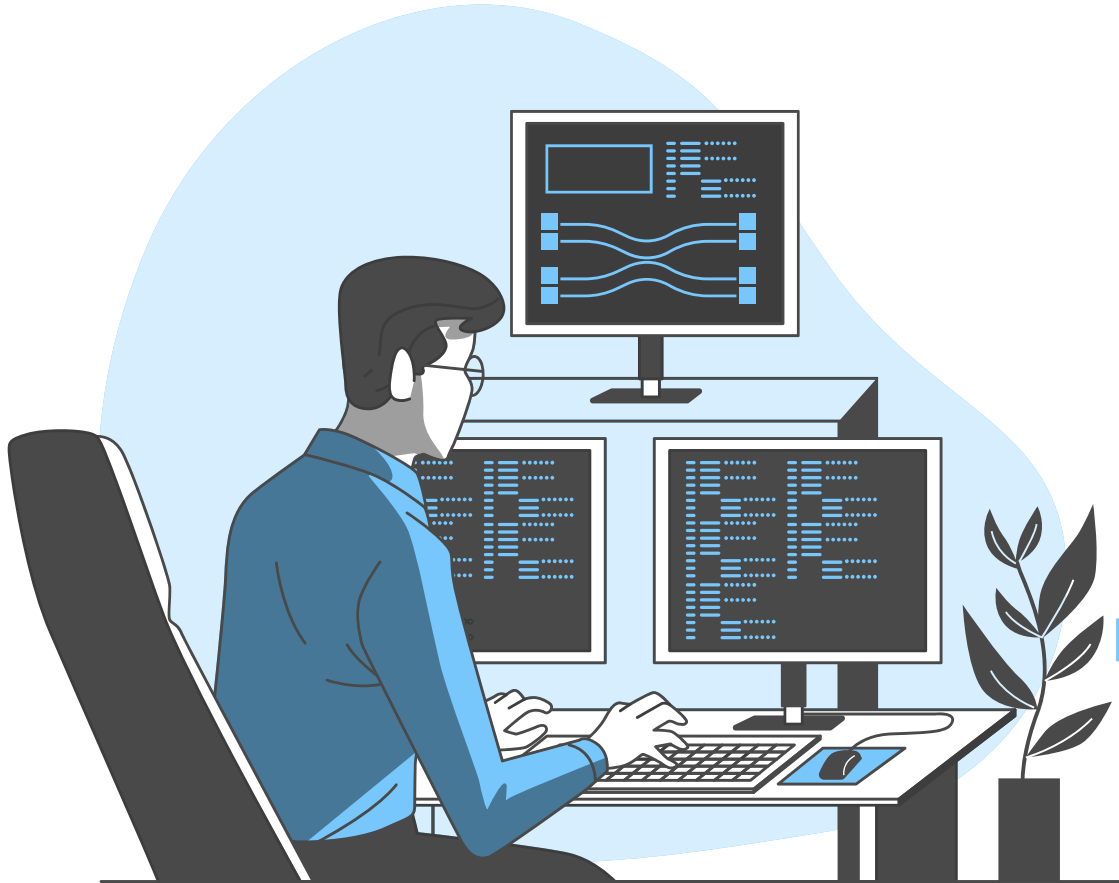
...

...



# Ironhack week 2 project

EMPLOYABILITY : Create a  
composite indicator



# Table of Contents

01

## Project setup

All the necessary steps

02

## Collecting the data

Our sources and methods we needed to collect the data

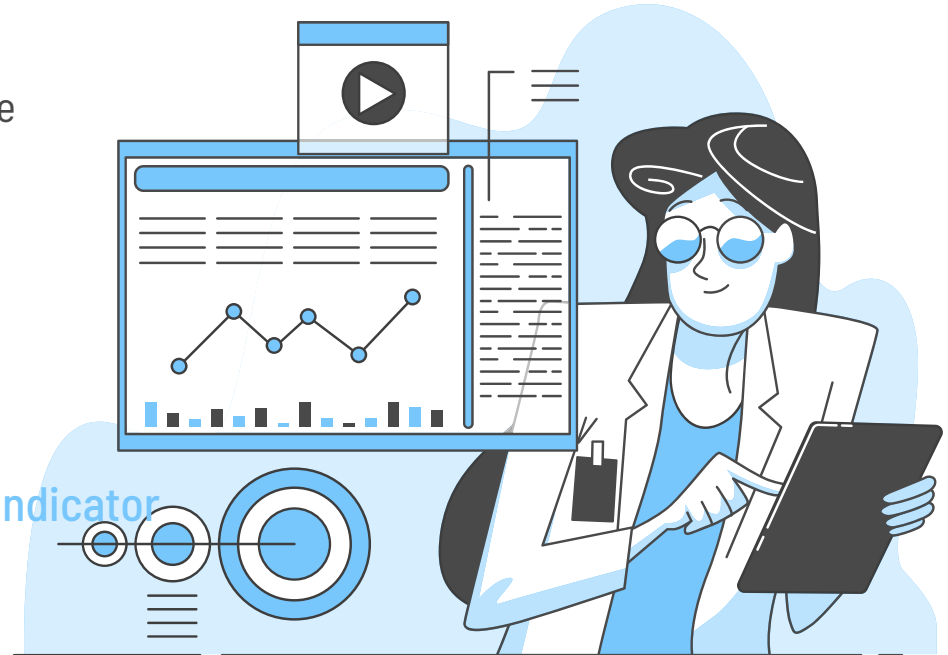
03

## MySQL

The main queries we use in MySQL

04

## Creating the composite indicator



# 01

## Project setup

# Choose a subject



**Employability : comparing  
the employability of  
different countries**

...

# Planning the project



## Using Jira

As the planning tool

...



## Decomposing the steps

...



## Assigning tasks

...

# Development environment



Python

As the programming  
language

...



Visual studio  
code

As a code editor

...



MySQL

As a SQL editor

...

# 02

## Collecting the data

*API & WEB-SCRAPPING*



# The different parameters of our composite indicator

01

Total  
unemployment rate

With the World Bank  
API

02

Youth ( 15-24 )  
unemployment rate

World bank API

03

Women  
unemployment rate

World Bank API





# The different parameters of our composite indicator

04

unemployment with  
basic education  
rate

OECD scrapping

05

Unemployment  
with secondary  
education rate

OECD scrapping

06

unemployment with  
tertiary education  
rate

OECD Scrapping

07

Average amount of  
labor in a year

Wikipedia scrapping

# WORLD BANK API

```
unemployment = wb.data.DataFrame('SL.UEM.BASC.ZS', wb.region.members('EMU'), time = [2020])
unemployment
```

[8] ✓ 0.8s

...

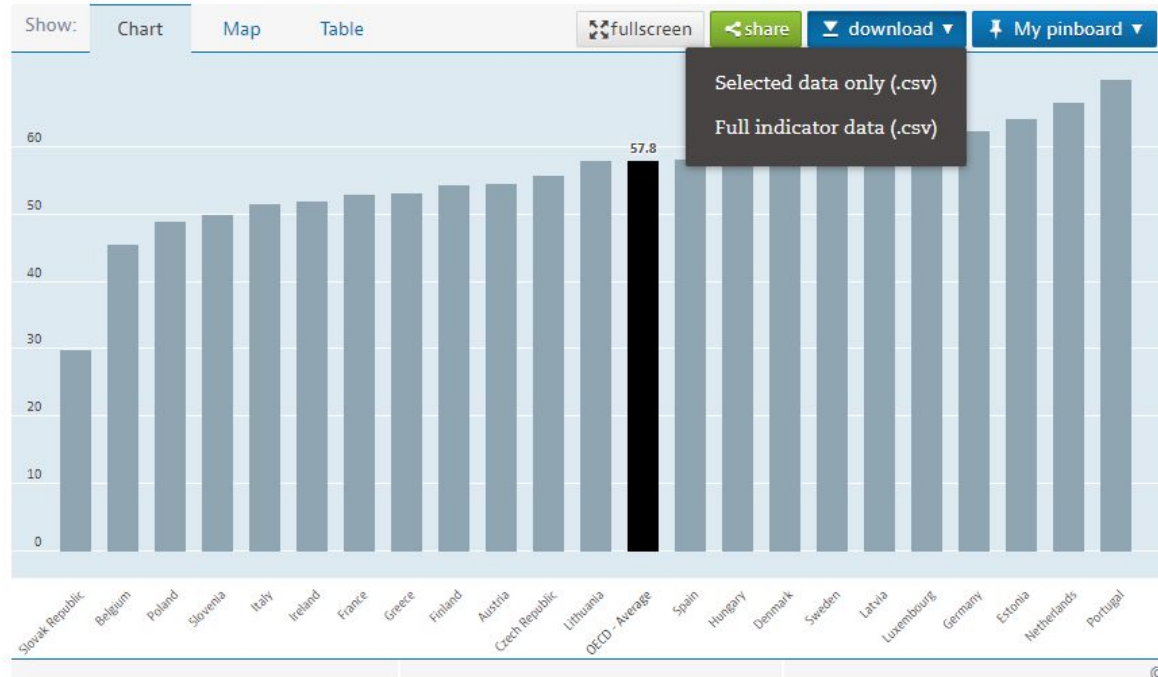
SL.UEM.BASC.ZS	
economy	
AUT	12.200000
BEL	11.760000
CYP	6.990000
DEU	9.160000
ESP	21.309999
EST	13.570000
FIN	18.790001
FRA	14.010000
GRC	18.590000
IRL	8.050000
ITA	12.660000
LTU	22.480000
LUX	11.240000
LVA	18.360001
MLT	5.940000
NLD	6.690000
PRT	6.390000
SVK	30.540001
SVN	10.960000

# Web scrapping from OECD

## Employment by education level

Below upper secondary, % of 25-64 year-olds, 2021 or latest available

Source: Education at a glance: Educational attainment and labour-force status



# Web scrapping from Wikipedia

```
import pandas as pd
df = pd.read_html("https://en.wikipedia.org/wiki/List_of_countries_by_unemployment_rate")
df[1]
```

	Country	15-24 year-olds	25-70 year-olds	Total
0	Australia*	14.5	5.6	6.9
1	Austria*	9.4	5.0	5.5
2	Belgium*	18.3	4.2	5.2
3	Canada*	18.8	7.3	8.9
4	Chile*	27.3	10.8	12.0
5	Colombia*	25.8	14.7	16.6
6	Czech Republic*	8.1	2.5	2.8
7	Denmark*	11.9	5.1	6.1
8	Estonia*	20.9	6.9	8.0
9	Euro area (19 countries)	17.6	7.4	8.3
10	European Union (27 countries, 2020)	17.1	6.6	7.5
11	Finland*	19.8	7.0	8.4
12	France*	19.6	6.6	7.9
13	G7	12.8	5.6	6.5
14	Germany*	6.0	4.4	4.5
15	Greece*	39.3	15.8	16.8
16	Hungary*	12.4	3.9	4.4
17	Iceland*	10.7	4.7	5.6
18	Ireland*	18.9	3.8	5.4
19	Israel*	8.2	4.1	4.7



03

MySQL



# Awards



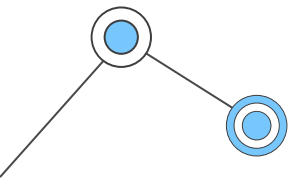
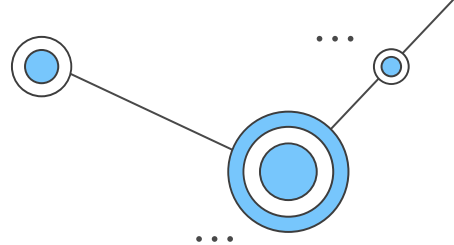
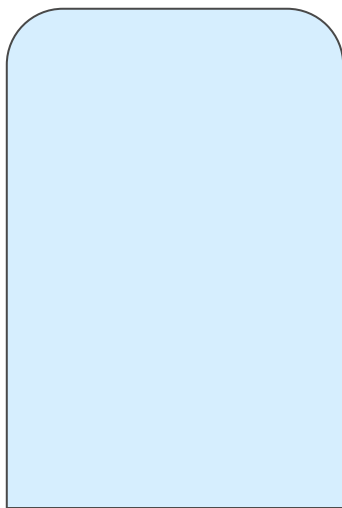
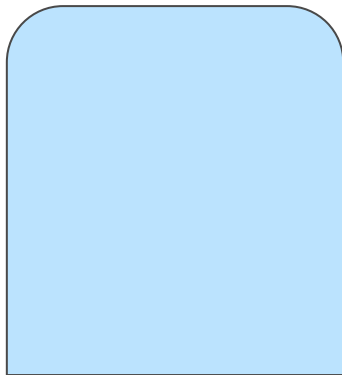
Germany



Netherlands

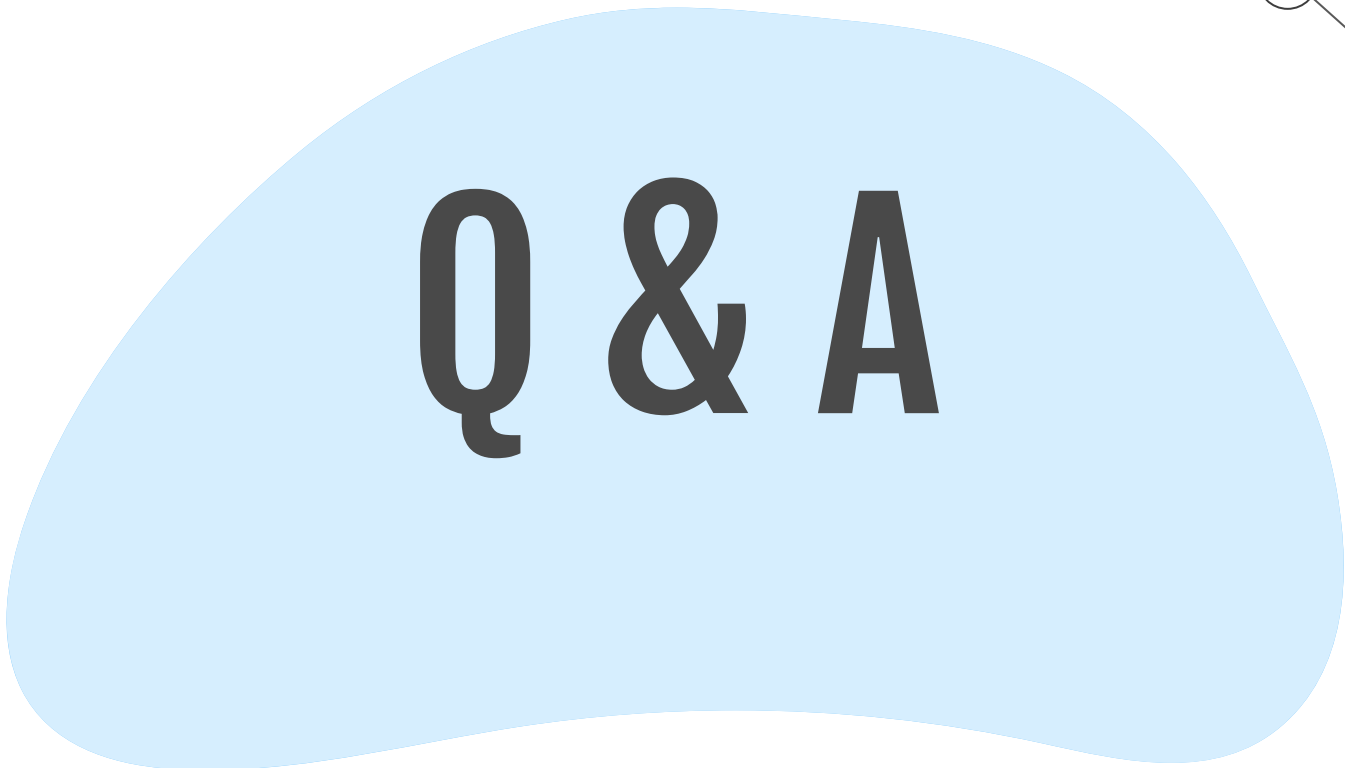


Austria



A decorative network diagram with blue nodes and lines. The nodes are represented by concentric circles, with some having a solid blue center and others being hollow. They are connected by thin black lines. There are three main paths: one in the top right, one in the bottom left, and one in the bottom center. Each path starts with an ellipsis (...).

**Thanks  
for  
watching**



**Q & A**

