Network quizz

1. Option 3
2. Option 3
3. Option 1, 3 and 6
4. Option 4

IAM quizz

1. Option 3
2. Option 1
3. Option 3 and 4
4. Option 4
5. Option 2
6. Option 3
7. Option 1

What actions are allowed for EC2 instances and S3 objects based on this policy? What specific resources are included?

- The policy allows users to launch and terminate EC2 instances.

- The policy allows users to retrieve (download) and upload (put) S3 objects.

- The policy allows actions on EC2 instances that match the ARN "arn:aws:ec2:us-east-1:123456789012:instance/*". This ARN represents all EC2 instances in the "us-east-1" region and owned by the AWS account "123456789012."

- The policy allows actions on S3 objects within the bucket named "example-bucket" using the ARN "arn:aws:s3:::example-bucket/*". This ARN represents all S3 objects within the bucket named "example-bucket."

Under what condition does this policy allow access to VPC-related information? Which AWS region is specified?

Under the condition that the requested AWS region is "us-west-2."

What actions are allowed on the "example-bucket" and its objects based on this policy? What specific prefixes are specified in the condition?

The policy allows users to retrieve (download) objects, upload (put) objects and to list the objects within the "example-bucket." The specified prefixes are "documents/" and "images/."

What actions are allowed for IAM users based on this policy? How are the resource ARNs constructed?

This policy allows users to create and to delete IAM users. The resource ARNs in this policy are constructed using the "arn:aws:iam::123456789012:user/${aws:username}" format. It is composed of the IAM resource type, which contains the account ID, and of the IAM username of the user making the request.

Which AWS service does this policy grant you access to? Does it allow you to create an IAM user, group, policy, or role? Name at least three specific actions that the iam:Get* action allows.

This policy grants access to the AWS Identity and Access Management (IAM) service. It allows to create an IAM user, group, policy, or role because it allows the "iam:Get*" and "iam:List*" actions on all resources ("Resource": "*").

“iam:GetGroup": Allows you to retrieve information about an IAM group.

"iam:GetPolicy": Allows you to retrieve information about an IAM policy.

"iam:GetRole": Allows you to retrieve information about an IAM role.

What actions does the policy allow?

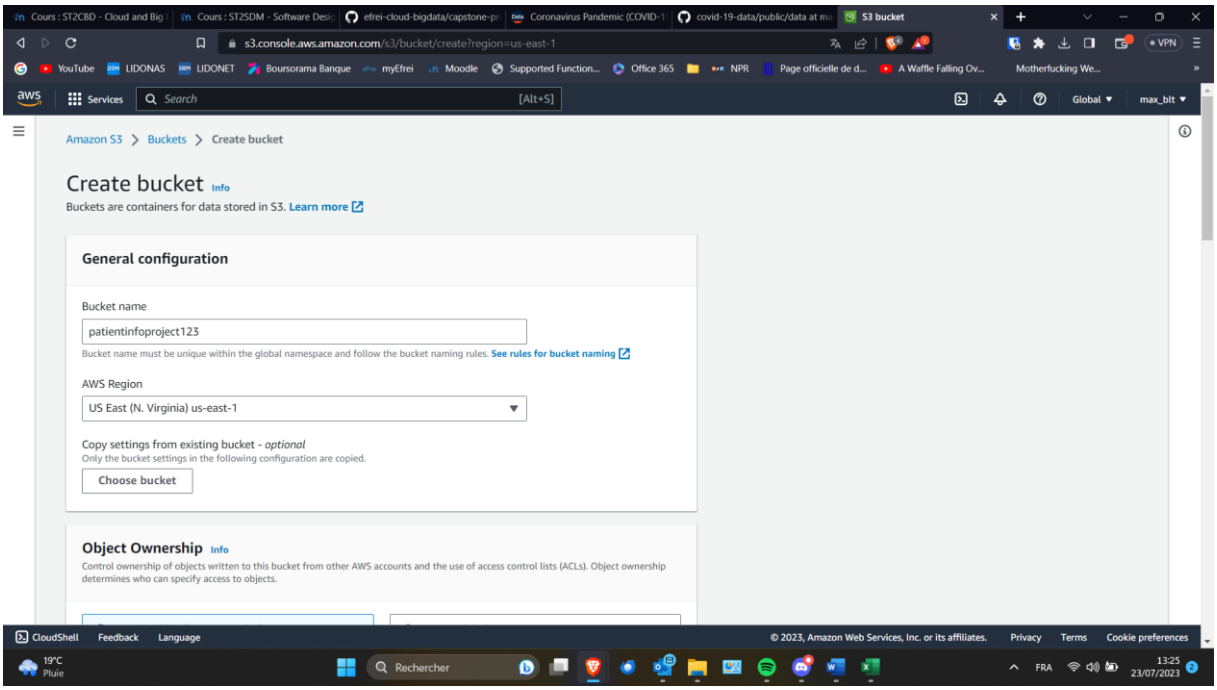
The policy denies users from launching new EC2 instances and starting existing EC2 instances with instance types "t2.micro" and "t2.small”.

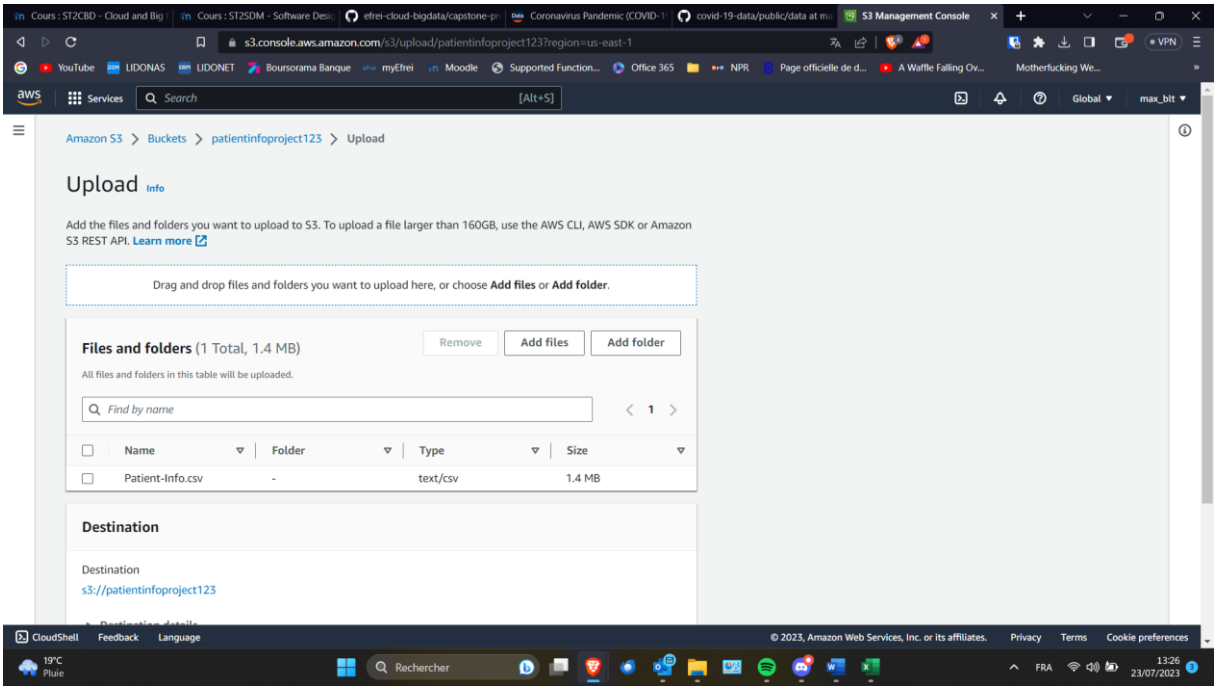
How would the policy restrict the access granted to you by this additional statement? If the policy included both the statement on the left and the statement in question 2, could you terminate an m3.xlarge instance that existed in the account?

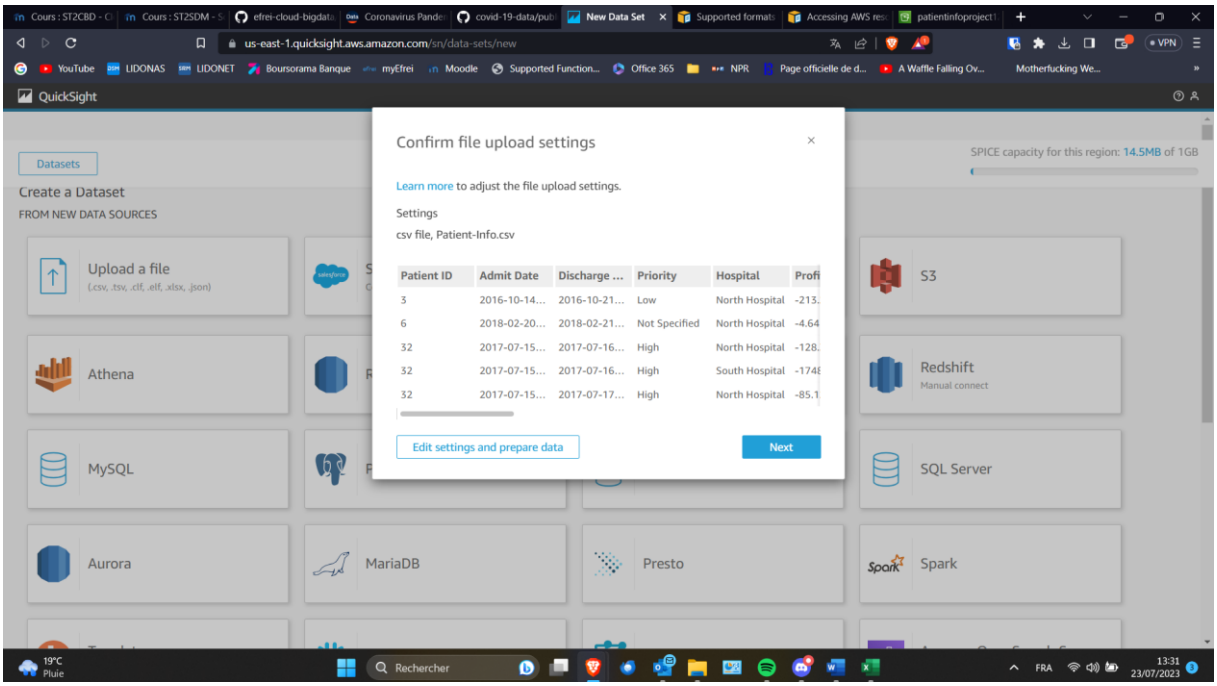
The policy grants unrestricted access to all EC2 actions (ec2:*) with an "Allow" effect. This means that any EC2 action can be performed on any instance type, including launching, terminating, starting, and stopping EC2 instances.

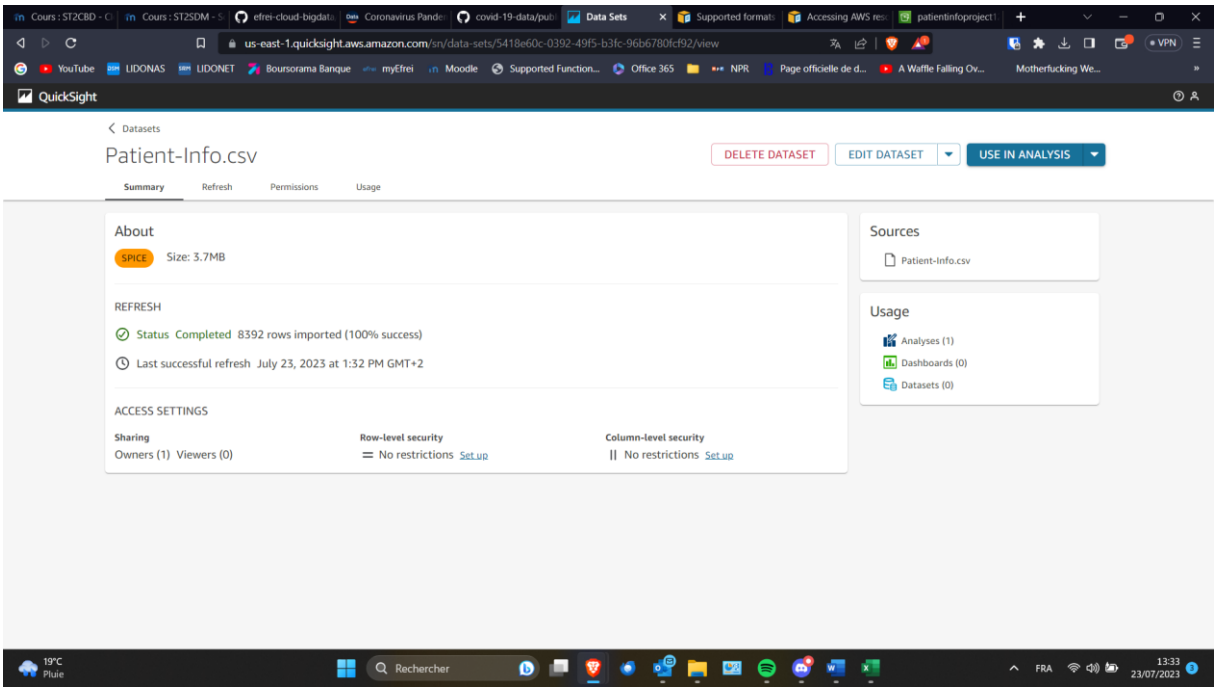
If the policy includes both statements, the overall effect will be determined based on the evaluation of both statements together. We would have permission to terminate an m3.xlarge instance (or any other instance type) despite the restrictions on "t2.micro" and "t2.small" instances. The "Allow" statement overrides the "Deny" statement when it comes to the ec2:TerminateInstances action.

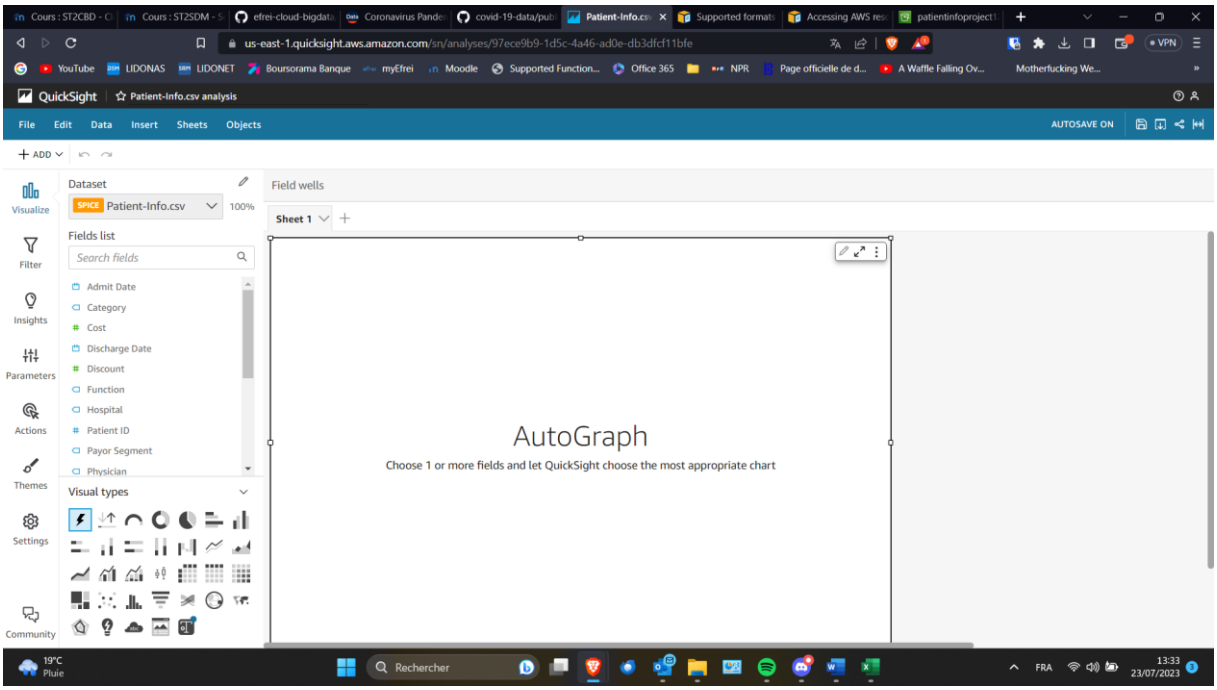
Big Data - Data Visualization With AWS QuickSight

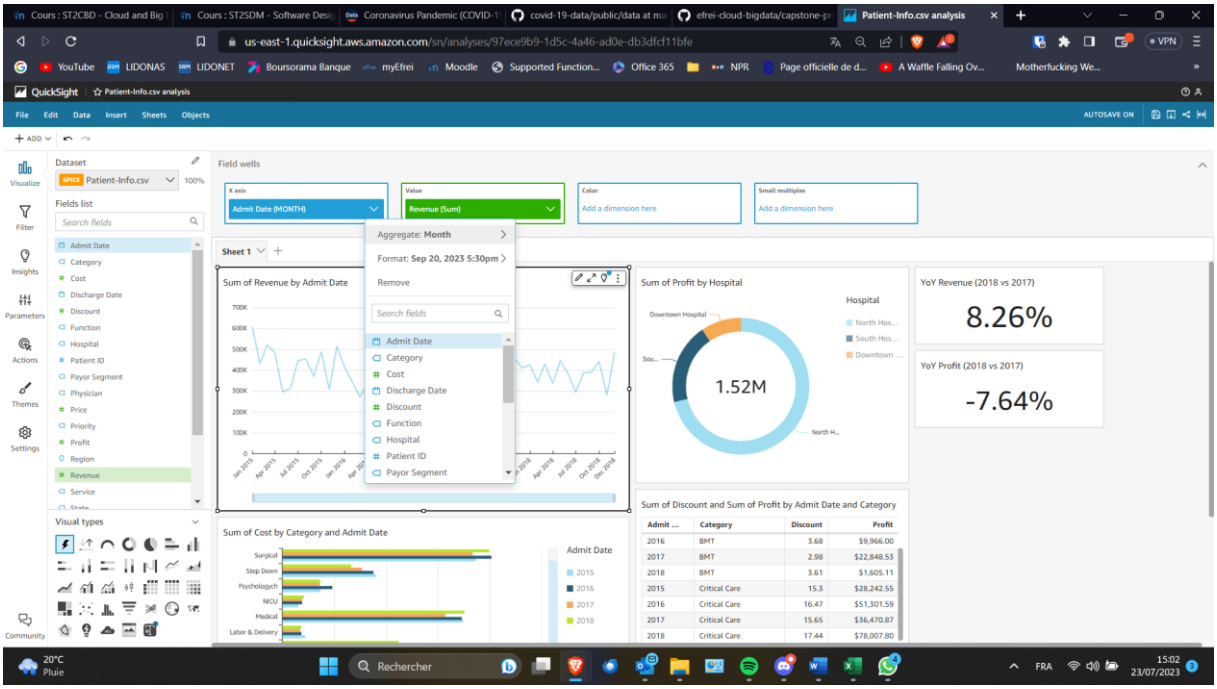


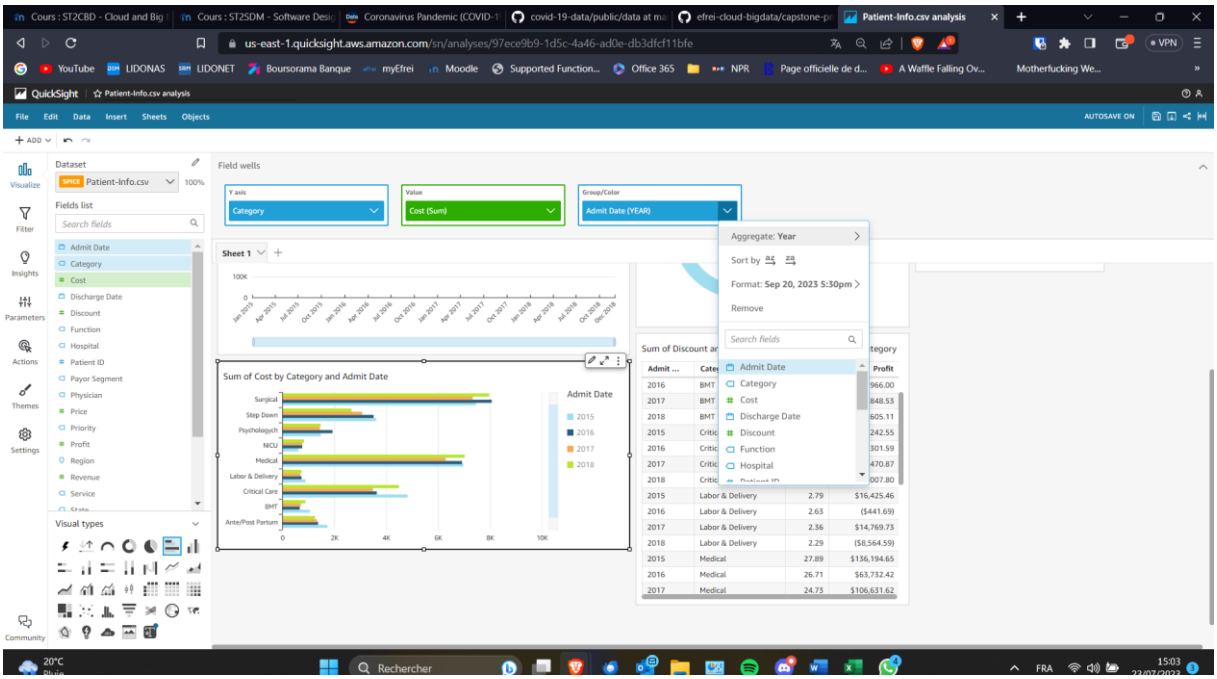


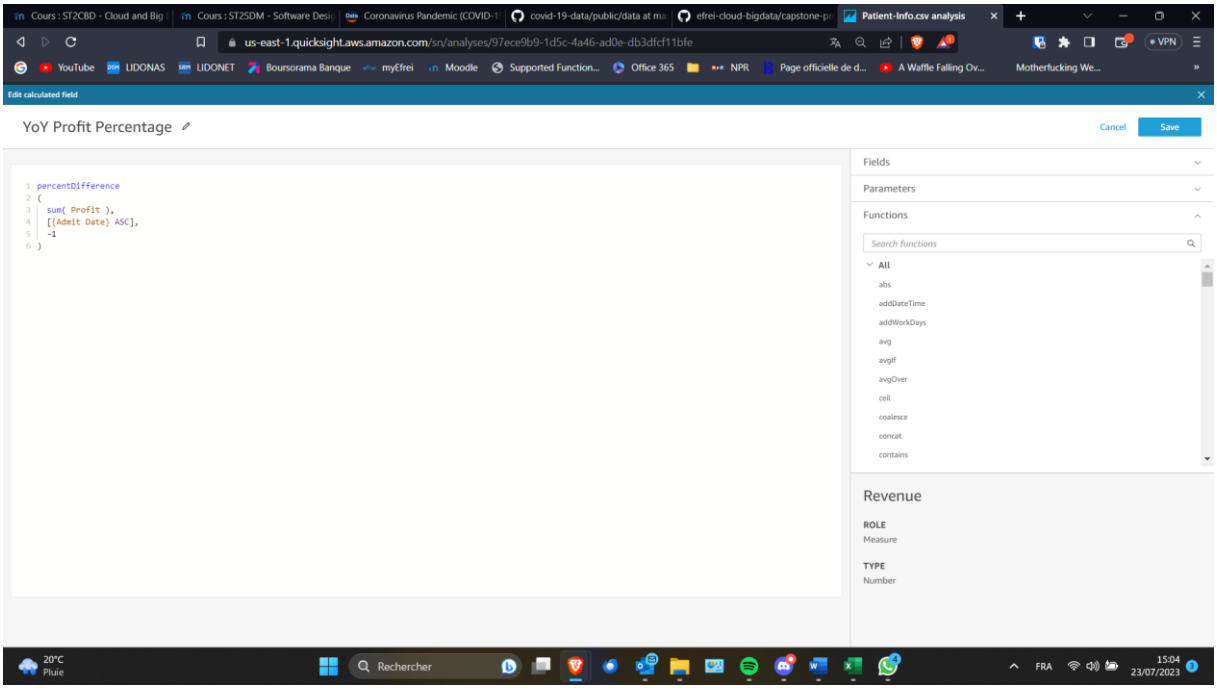

Confirm file upload settings
Learn more to adjust the file upload settings.
Settings
csv file, Patient-Info.csv
Patient ID
Admit Date
Discharge ...
Priority
Hospital
Edit settings and prepare data
Next
Datasets
Create a Dataset
FROM NEW DATA SOURCES
Upload a file
Athena
MySQL
Aurora
MariaDB
Presto
S3
Redshift
SQL Server
Spark

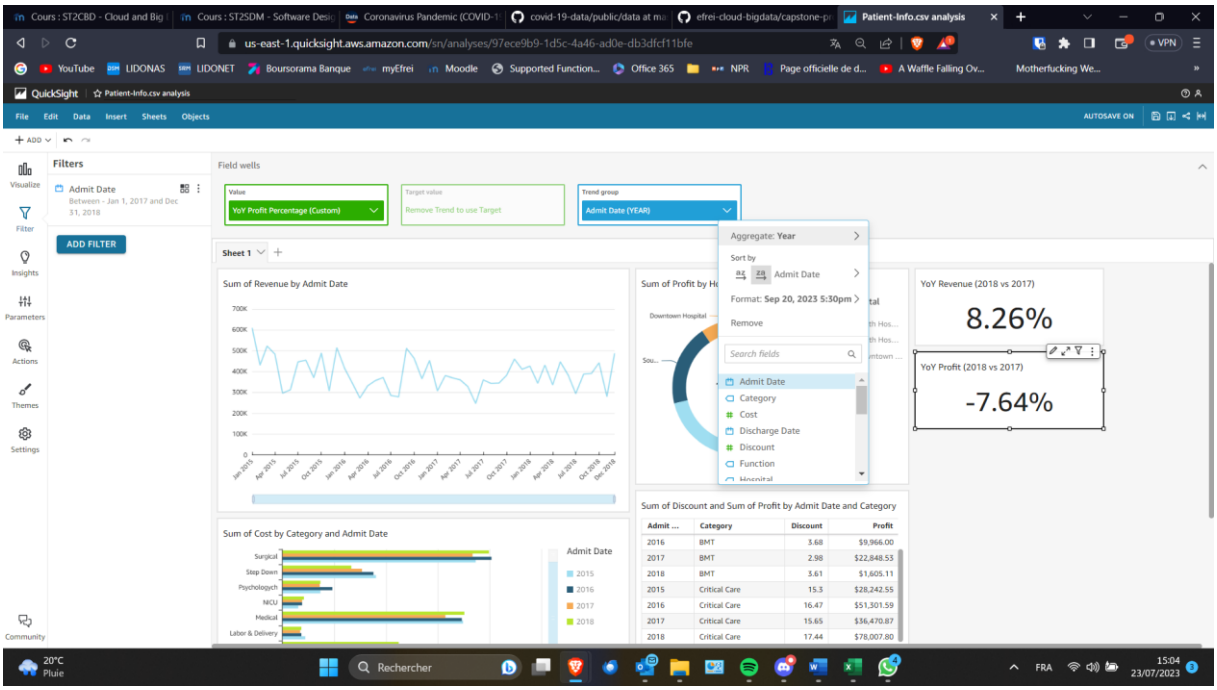

Datasets
Patient-Info.csv
DELETE DATASET
EDIT DATASET
USE IN ANALYSIS
Summary
Refresh
Permissions
Usage
About
SPICE
Size: 3.7MB
REFRESH
Status Completed 8392 rows imported (100% success)
Last successful refresh July 23, 2023 at 1:32 PM GMT+2
ACCESS SETTINGS
Sharing
Owners (1) Viewers (0)
Row-level security
No restrictions Set up
Column-level security
No restrictions Set up
Sources
Patient-Info.csv
Usage
Analyses (1)
Dashboards (0)
Datasets (0)

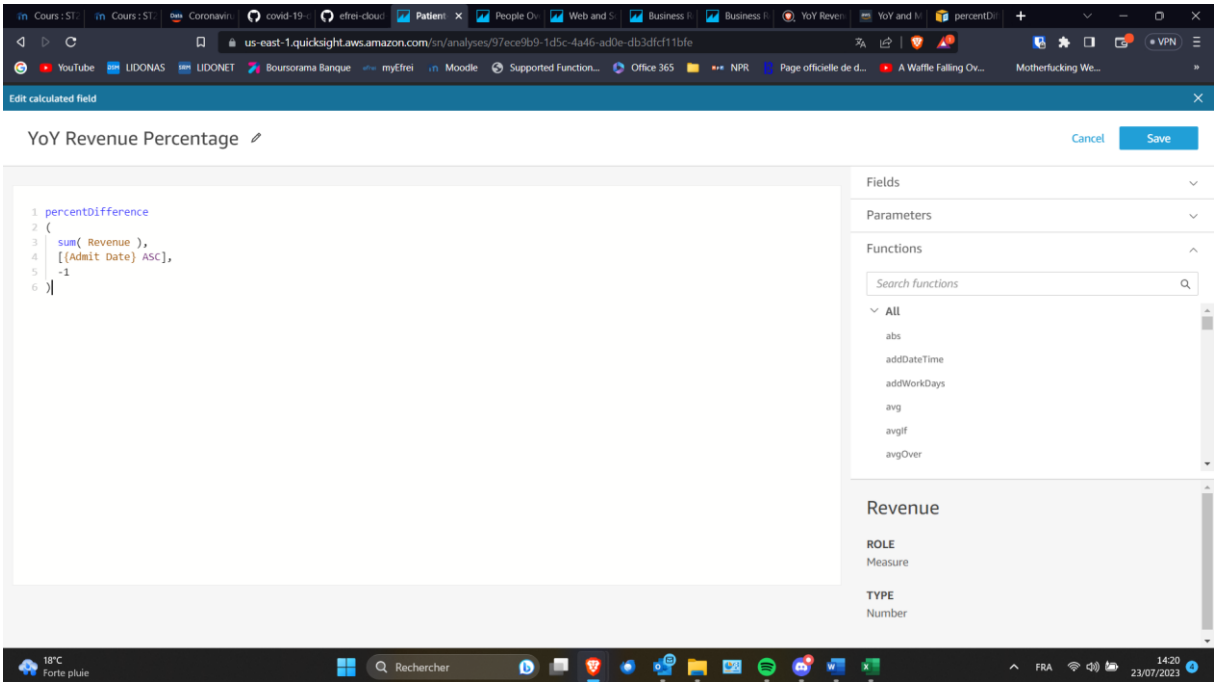

QuickSight
Patient-Info.csv analysis
Dataset
Patient-Info.csv
Fields list
Search fields
Admit Date
Category
Cost
Discharge Date
Discount
Function
Hospital
Patient ID
Payor Segment
Physician
Visual types
Field wells
Sheet 1
AutoGraph
Choose 1 or more fields and let QuickSight choose the most appropriate chart

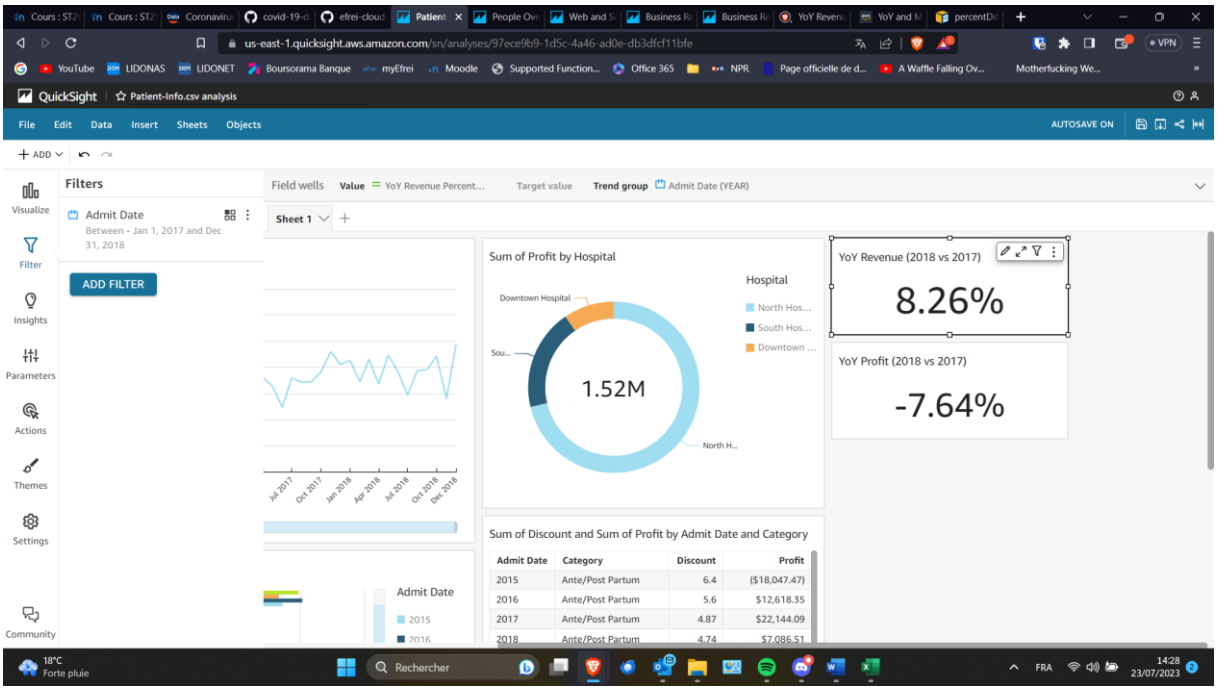

QuickSight
Patient-Info.csv analysis
Field wells
Admit Date (MONTH)
Revenue (Sum)
Sum of Revenue by Admit Date
Sum of Profit by Hospital
1.52M
YoY Revenue (2018 vs 2017)
8.26%
YoY Profit (2018 vs 2017)
-7.64%
Sum of Cost by Category and Admit Date
Sum of Discount and Sum of Profit by Admit Date and Category

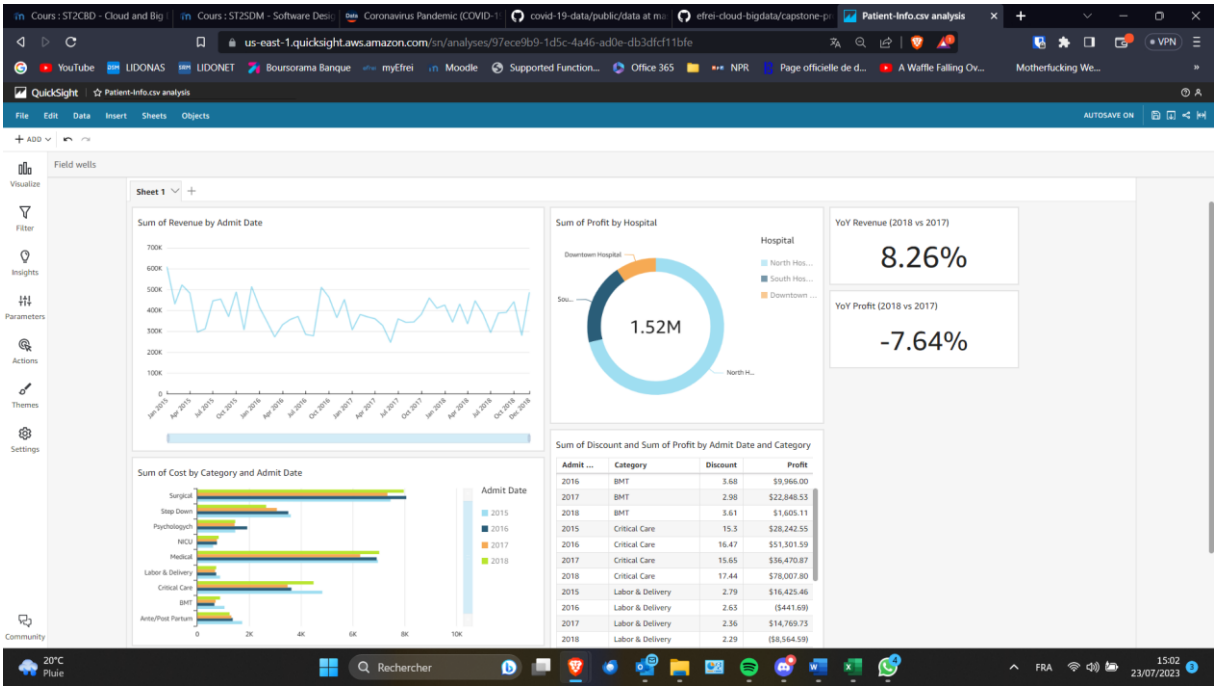

Sum of Cost by Category and Admit Date
Admit Date
Field wells
Visual types


YoY Profit Percentage
Cancel
Save
percentDifference
sum(Profit),
[{Admit Date} ASC],
-1
Fields
Parameters
Functions
Revenue
ROLE
Measure
TYPE
Number


Filters
Admit Date
ADD FILTER
Field wells
YoY Profit Percentage (Custom)
Admit Date (YEAR)
Sheet 1
Sum of Revenue by Admit Date
Sum of Profit by H
Aggregate: Year
Sort by
Admit Date
Format: Sep 20, 2023 5:30pm
Remove
Search fields
Admit Date
Category
Cost
Discharge Date
Discount
Function
YoY Revenue (2018 vs 2017)
8.26%
YoY Profit (2018 vs 2017)
-7.64%
Sum of Cost by Category and Admit Date
Admit Date
Sum of Discount and Sum of Profit by Admit Date and Category
Admit ...
Category
Discount
Profit
2016 BMT 3.68 $9,966.00
2017 BMT 2.98 $22,848.53
2018 BMT 3.61 $1,605.11
2015 Critical Care 15.3 $28,242.55
2016 Critical Care 16.47 $51,301.59
2017 Critical Care 15.65 $36,470.87
2018 Critical Care 17.44 $78,007.80


Edit calculated field
YoY Revenue Percentage
Cancel
Save
1 percentDifference
2 (
3 sum(Revenue),
4 [{Admit Date} ASC],
5 -1
6)
Fields
Parameters
Functions
Search functions
All
abs
addDateTime
addWorkDays
avg
avgIf
avgOver
Revenue
ROLE
Measure
TYPE
Number


QuickSight
Patient-Info.csv analysis
Filters
Admit Date
Between - Jan 1, 2017 and Dec 31, 2018
ADD FILTER
Sheet 1
Sum of Profit by Hospital
Hospital
1.52M
YoY Revenue (2018 vs 2017)
8.26%
YoY Profit (2018 vs 2017)
-7.64%
Sum of Discount and Sum of Profit by Admit Date and Category
Admit Date
Category
Discount
Profit
2015 Ante/Post Partum 6.4 ($18,047.47)
2016 Ante/Post Partum 5.6 $12,618.35
2017 Ante/Post Partum 4.87 $22,144.09
2018 Ante/Post Partum 4.74 $7,086.51


QuickSight
Patient-Info.csv analysis
Sheet 1
Sum of Revenue by Admit Date
Sum of Profit by Hospital
1.52M
YoY Revenue (2018 vs 2017)
8.26%
YoY Profit (2018 vs 2017)
-7.64%
Sum of Cost by Category and Admit Date
Admit Date
Sum of Discount and Sum of Profit by Admit Date and Category