COS20019 - Cloud Computing Architecture
Assignment 1 – Part B

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1.Infrastructure deployment
1.1 – VPC

I create my VPC (PPhamVPC)

4 subnets (2 public subnets and 2 private subnets)

2 public subnets associate with routable (PublicRouteTable) to Internet Gateways (PhongPha InternetGateWay)
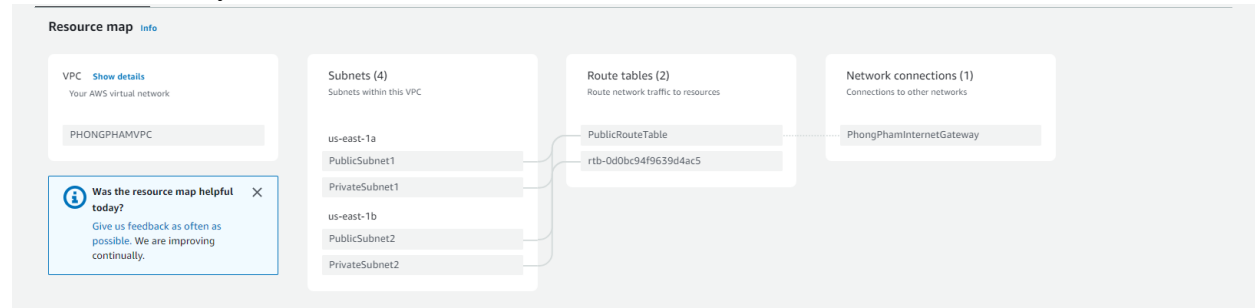
This is my Resource map

1.2 – Security groups

I create 3 security groups (3 security groups I selected are 3 SG I used for this assignment)

1.3 – EC2 virtual machine

. 1.3.1 – Bastion/Web server instance

I create a Web server instance as well add an elastic IP address for it to ensure my Web-Server URL remains persistent.

. 1.3.2 – Test Instance

I can SSH into an instance in a private subnet (private subnet 2)

I ping successfully.

1.4 – RDS database instance
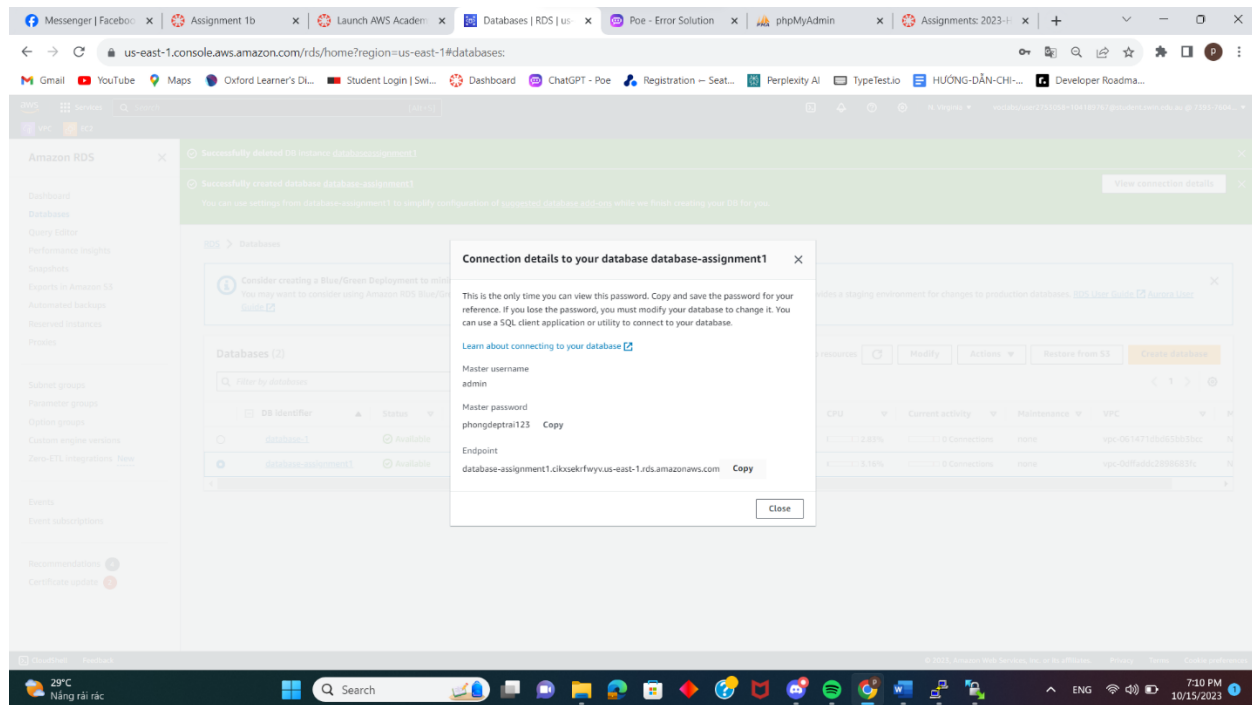
This is my database

The details of my database.
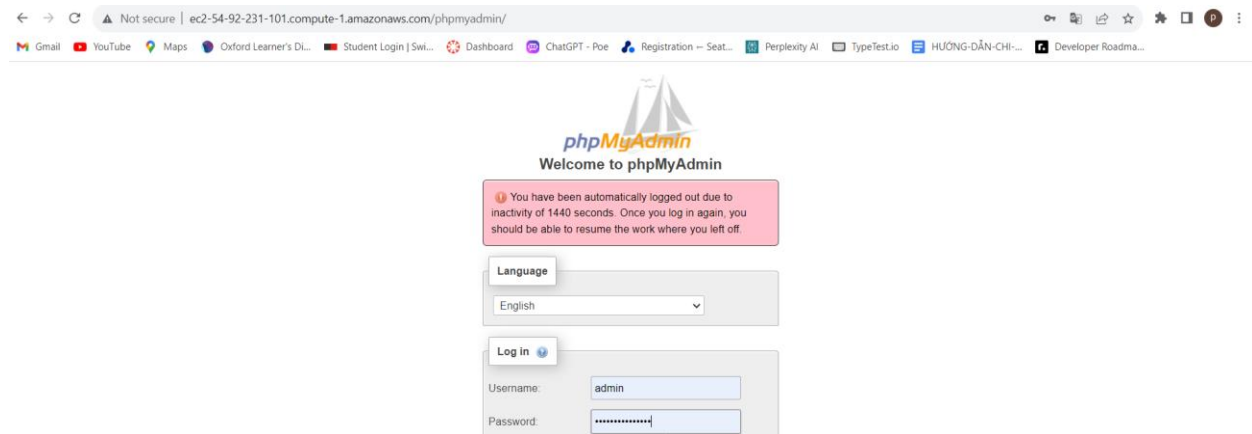
This is the display of phpMyadmin . The username : admin and the password : phongdeptrai123.
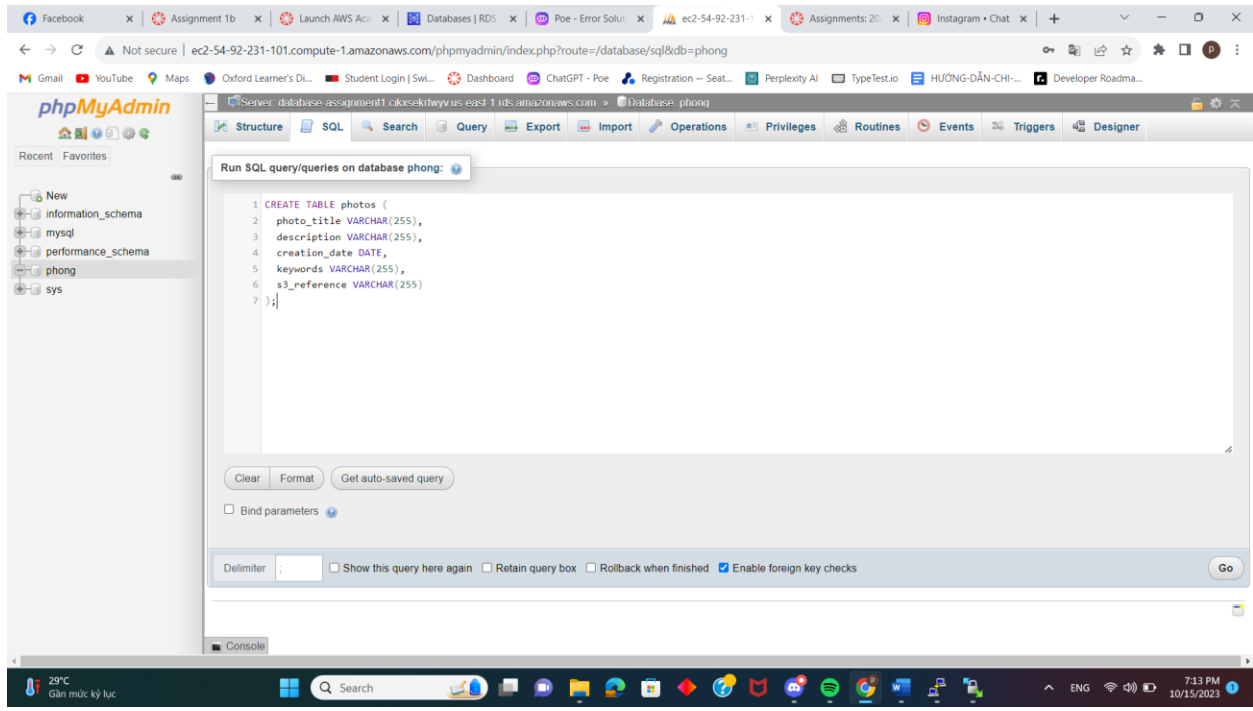
This is mySQL command.
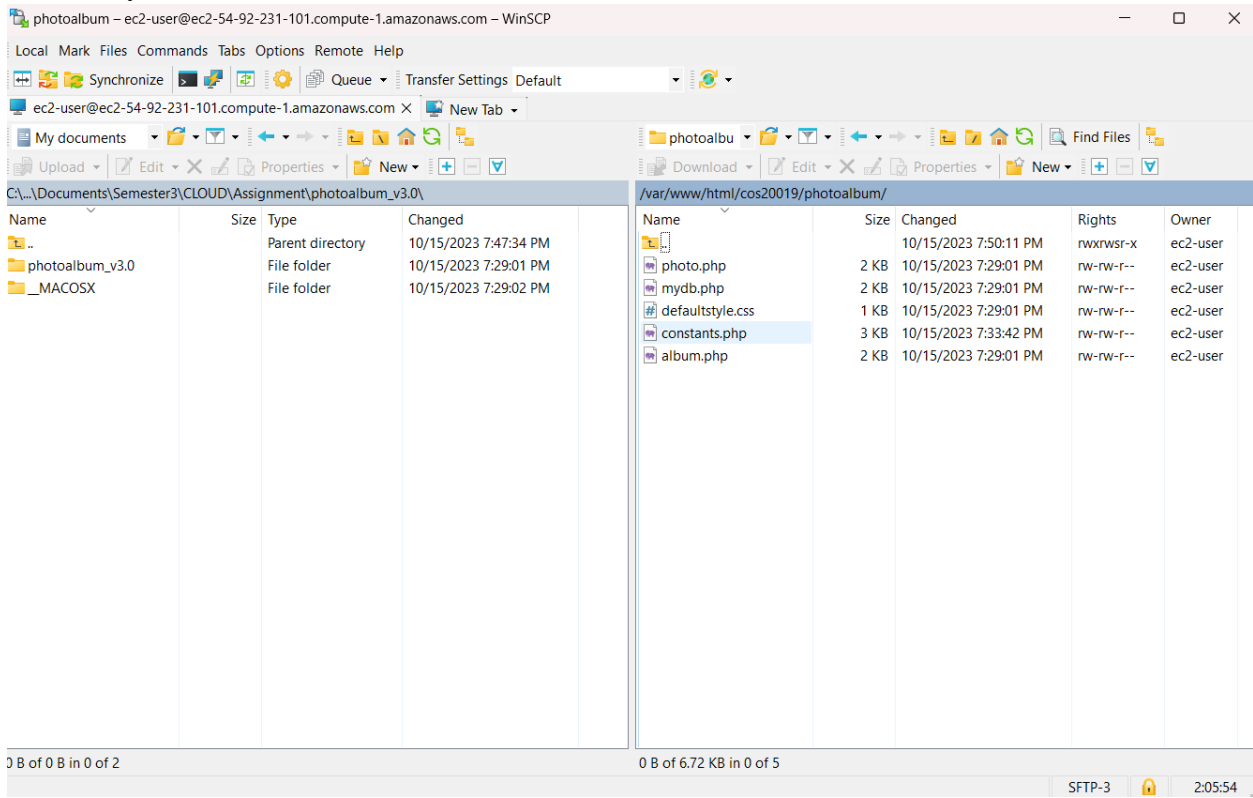
This is my WinSCP where I store the photos.

1.5 – Network ACL

This is my network ACL with the requirements : Inbound Rules and Outbound Rules

1.Functional requirements of Photo Album website
2.1 Photo storage

This is my S3 bucket where stores my photo.

https://photoweb.s3.amazonaws.com/PhongParent.jpg

https://photoweb.s3.amazonaws.com/TienPhong1.jpg

https://photoweb.s3.amazonaws.com/TienPhong2.jpg
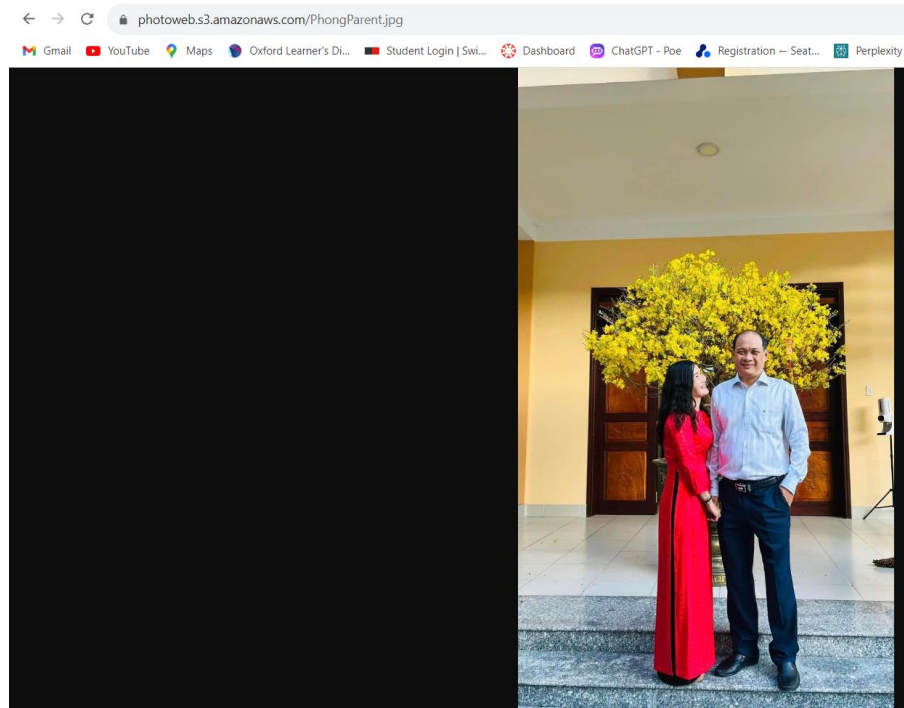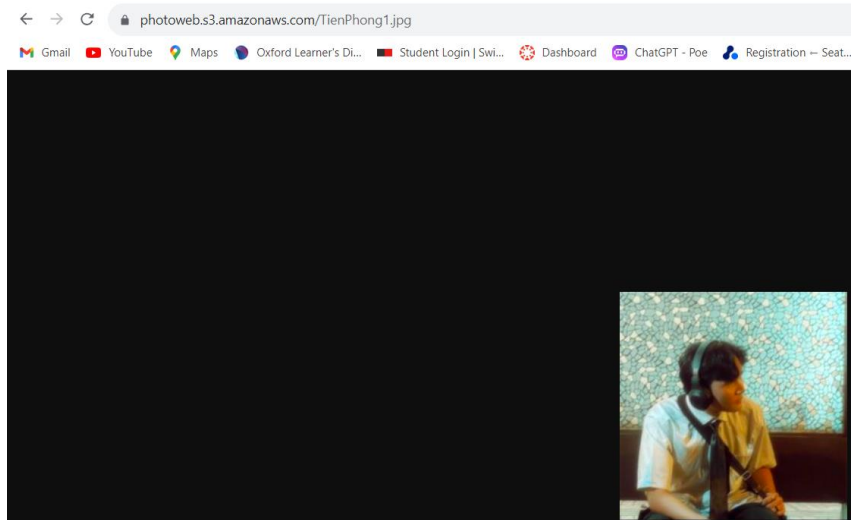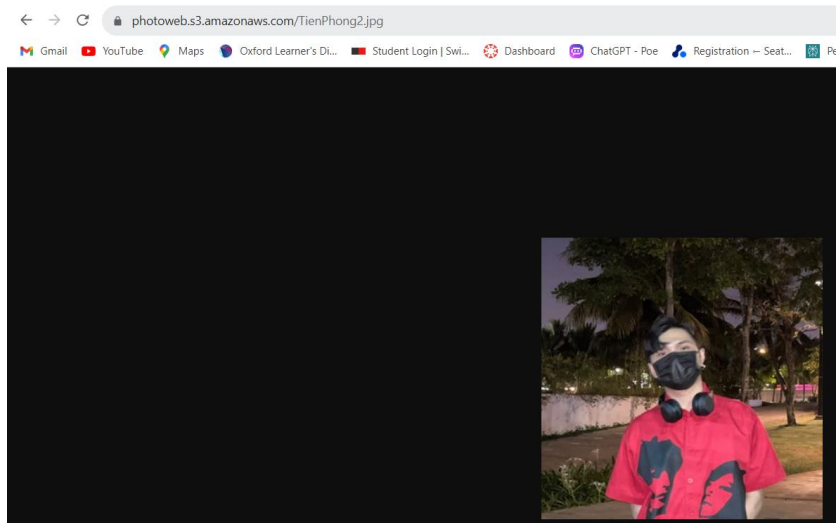
These pictures are the photos in the S3 bucket and links are accessed to it.

2.2 Photo meta-data in RDS database
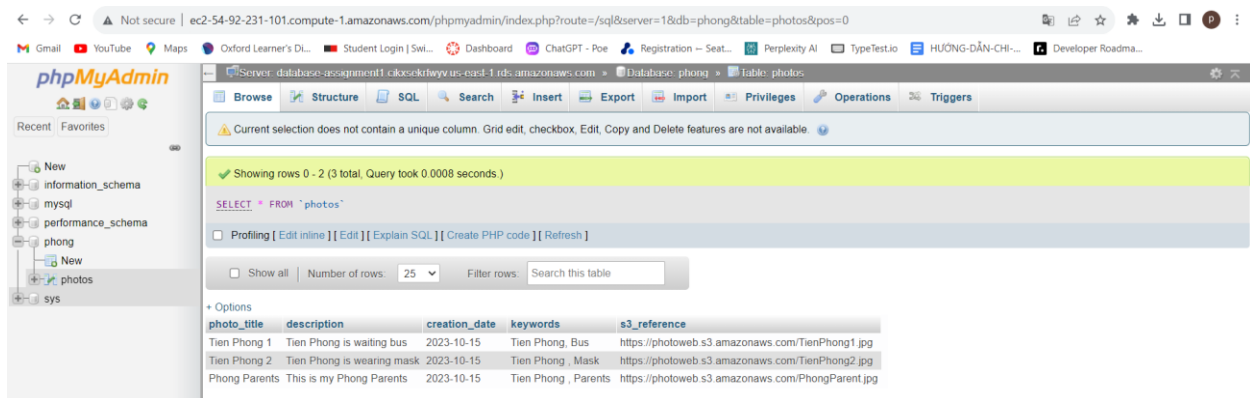
I create a table to store the photo in phpmyadmin.

2.3 Photo Album website functionality
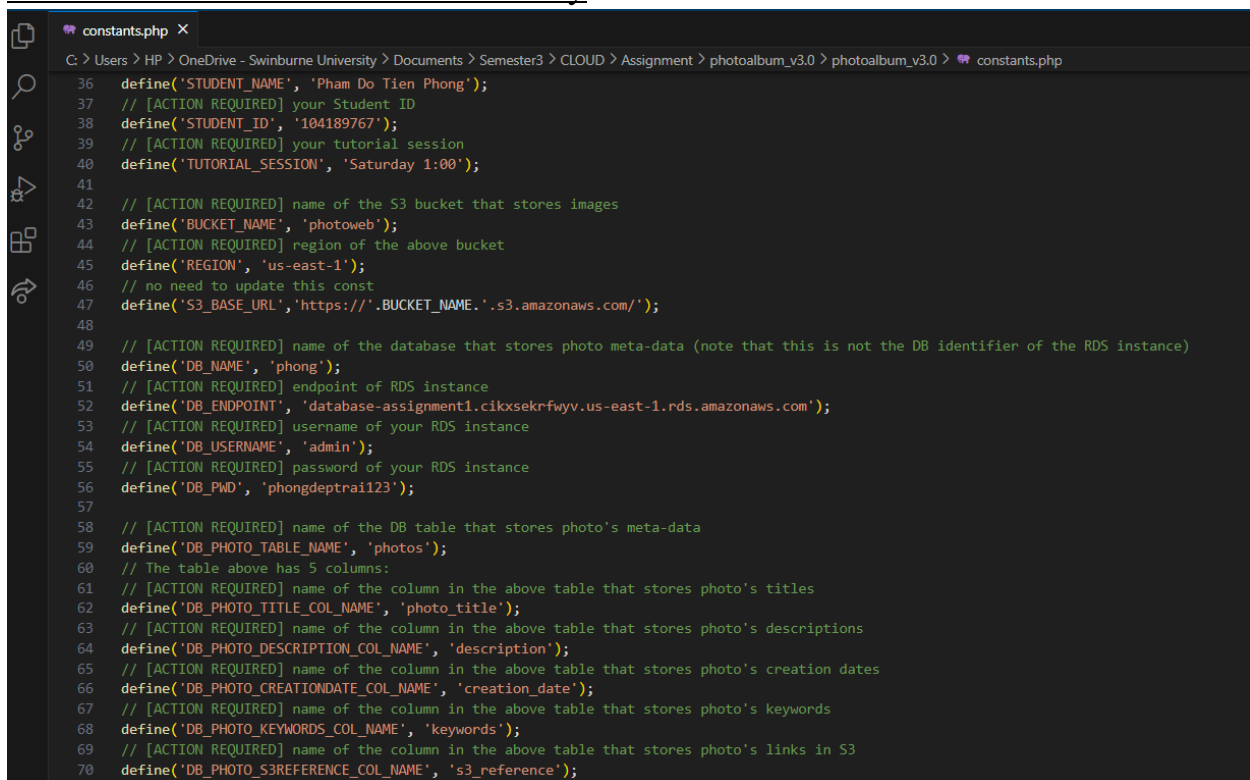
First of all, I modify the costant.php . The things I change are student name ; student id ; tutorial session; bucket name ; db name ; action required of endpoint, username, password ; db photo creationdate ; db photo s3 reference, respectively.

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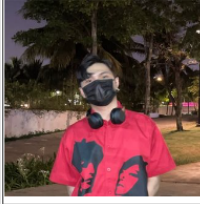**Tutorial session: Saturday 1:00**

Uploaded photos:

Photo	Name	Description	Creation date	Keywords
	Tien Phong 1	Tien Phong is waiting bus	2023-10-15	Tien Phong, Bus
	Tien Phong 2	Tien Phong is wearing mask	2023-10-15	Tien Phong , Mask
	Phong Parents	This is my Phong Parents	2023-10-15	Tien Phong , Parents

And finally, this is my serever.
This is my URL of the album.php page
http://ec2-54-92-231-101.compute-1.amazonaws.com/cos20019/photoalbum/album.php