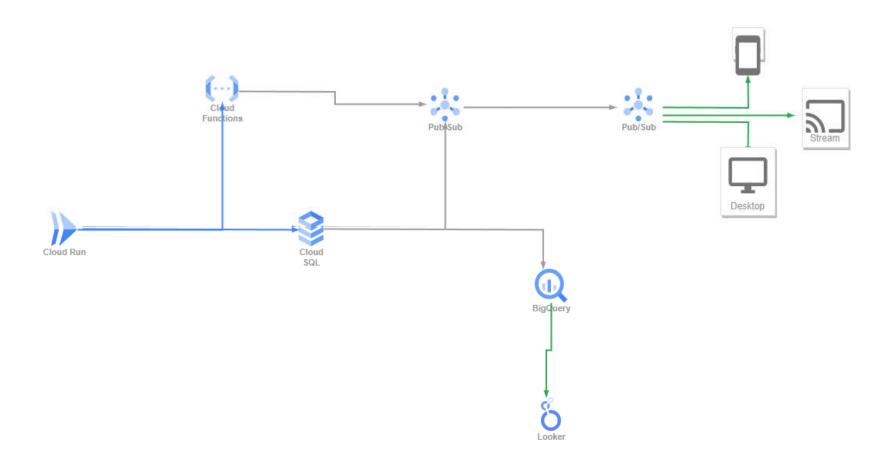
### Stock\_Market\_Appliaction\_Case\_Study

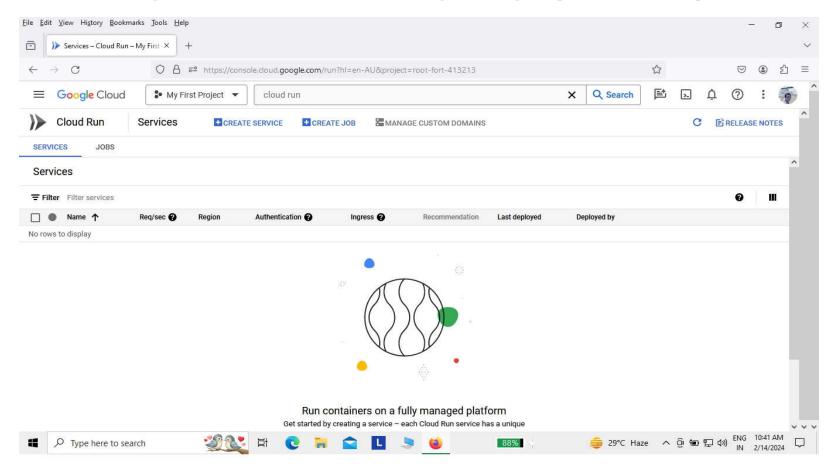
#### **COMPANY OVERVIEW**

STOCK MARKET APP is a share market application where millions of orders are processed and converted into trades. Company planning to Deploy their application on google cloud platform. Company expects high volume of order request during Pre-Open market session (9: 9:15 am) And post market session (3:30 to 4 pm). Company wants to leverage the Scalability aspect of the google cloud to deploy its application and also leverage its ability to store data in huge volume for data analysis. Stock market is having a surveillance department, that is going to analyze real time trading to see anyone is manipulating the market or not.

### Architecture Diagram of Stock Market App

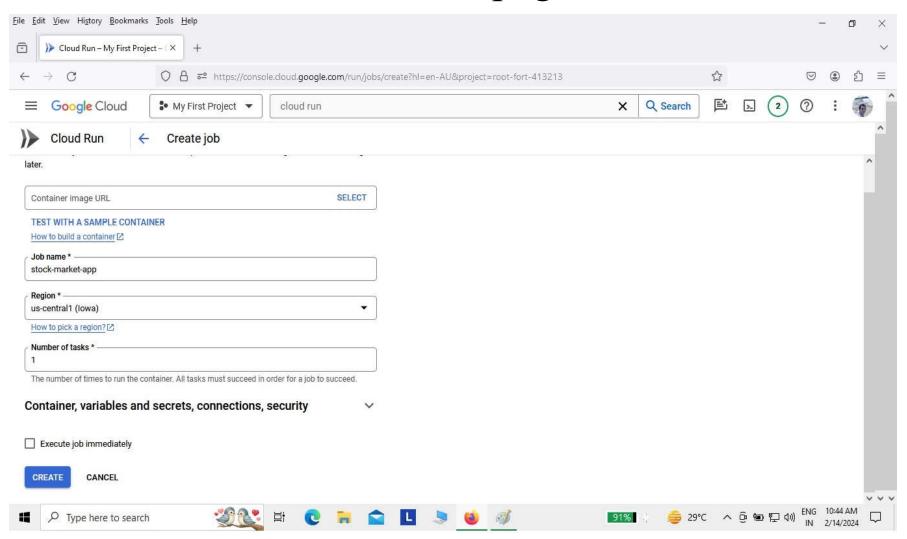


### 1. CREATE A CLOUD RUN

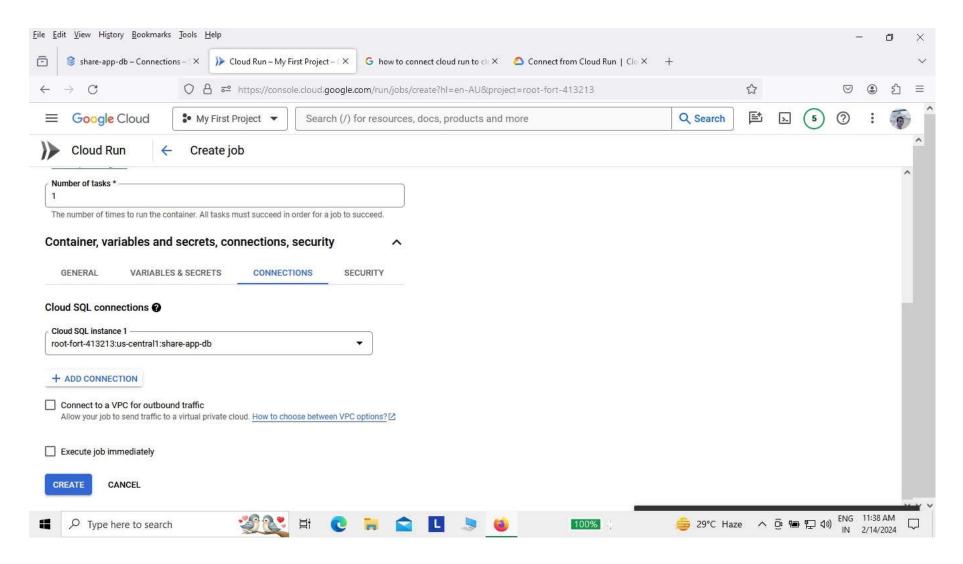


Go to console page and click search bar and type cloud run then click cloud run button and go to cloud run.

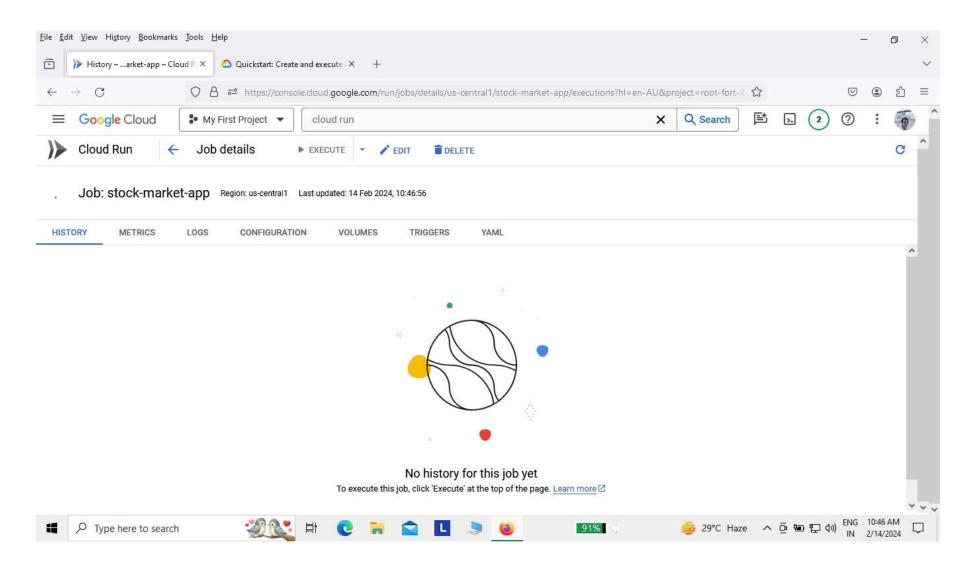
## Create a job and choose the region then scroll down the page



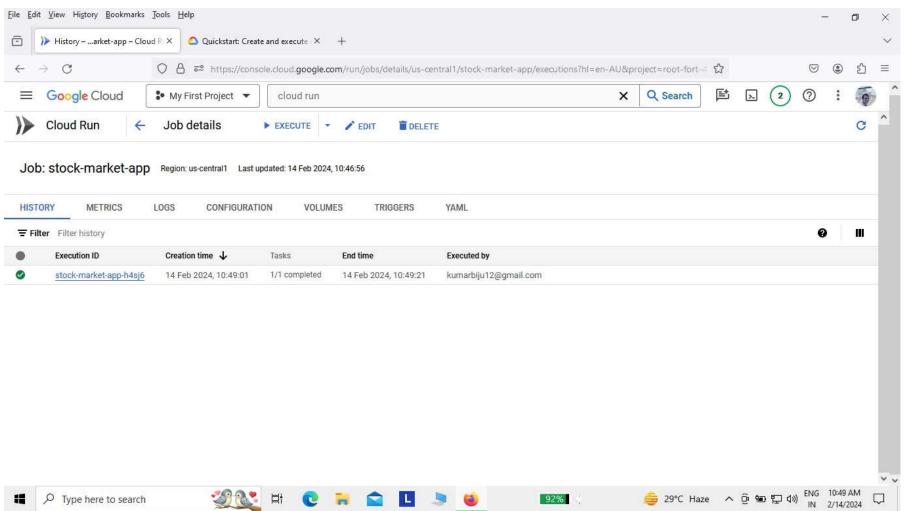
### Add connection with cloud Sql and create button click



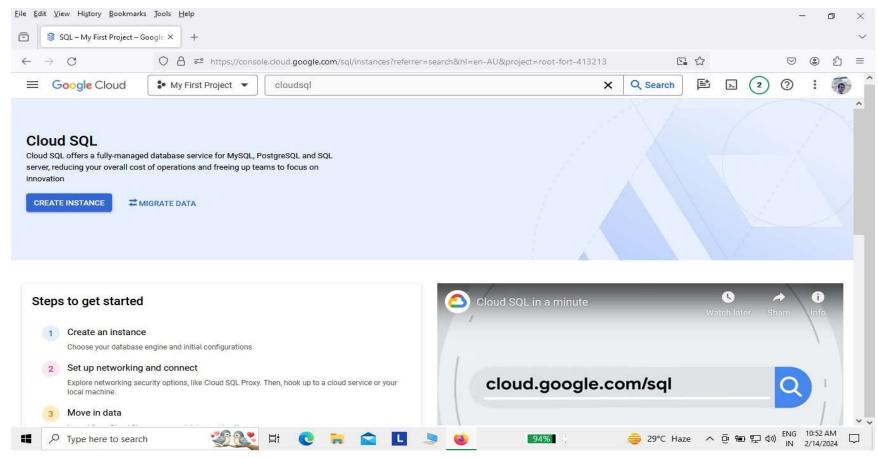
### Job is running and deploy



## Stock market app is successfully create and ready the deploy

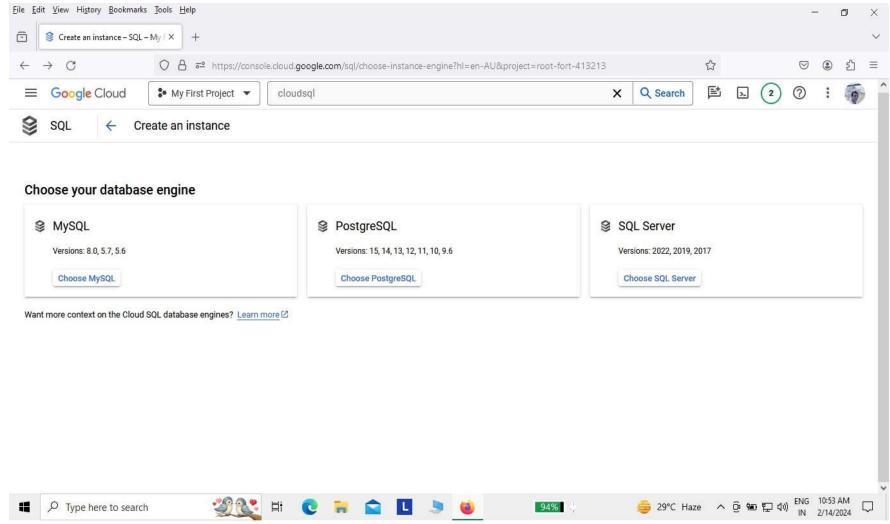


### 2. CREATE A CLOUD SQL INSTANCE

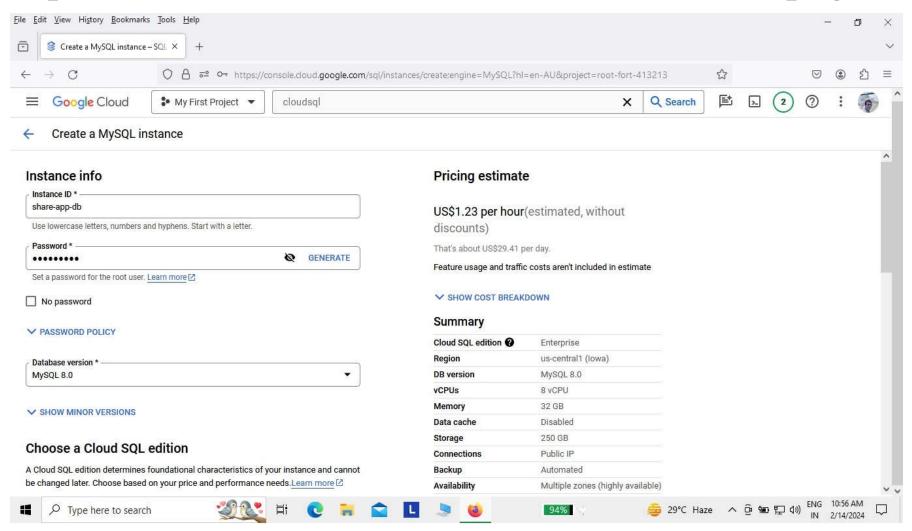


Go to search bar type cloud sql and click the cloud sql button and scroll down the page

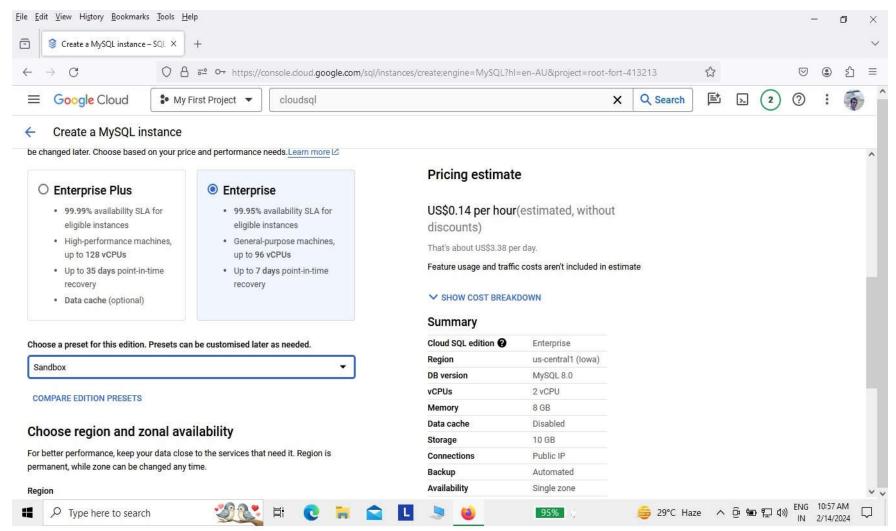
### Choose the sql which your compatible



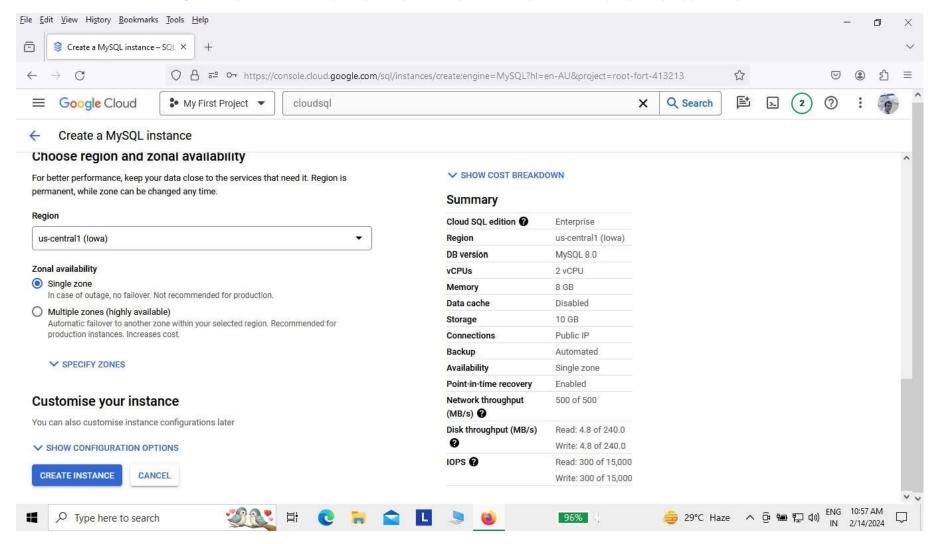
## Go to MySQL page and give a name and set password then version and scroll down the page



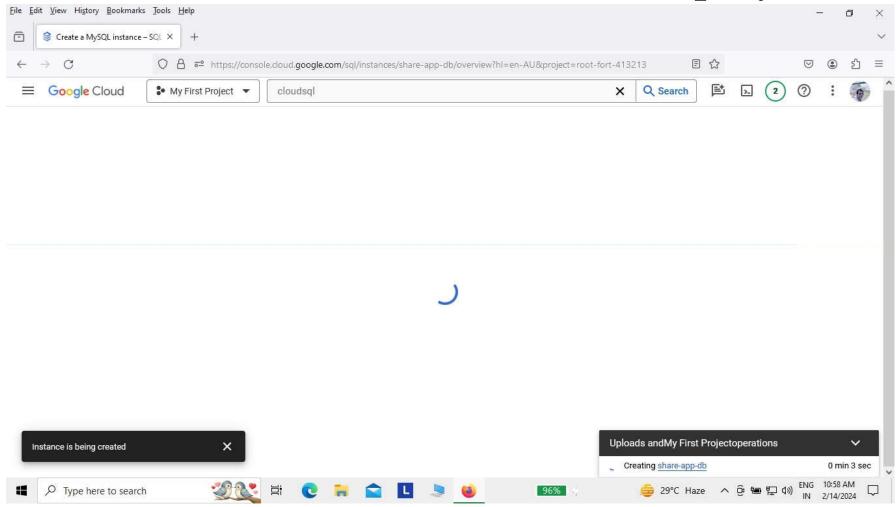
## Choose the cloud sql edition for you customized and scroll down the page



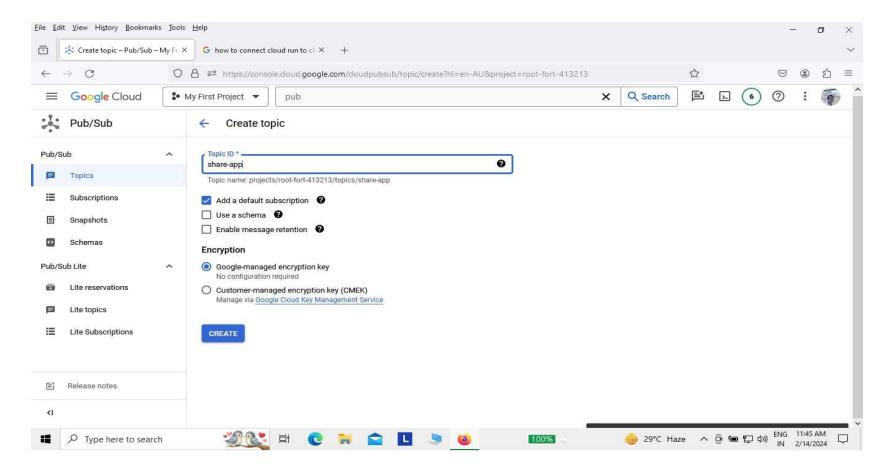
#### Click the create instance button



### Cloud SQL is created and deploy

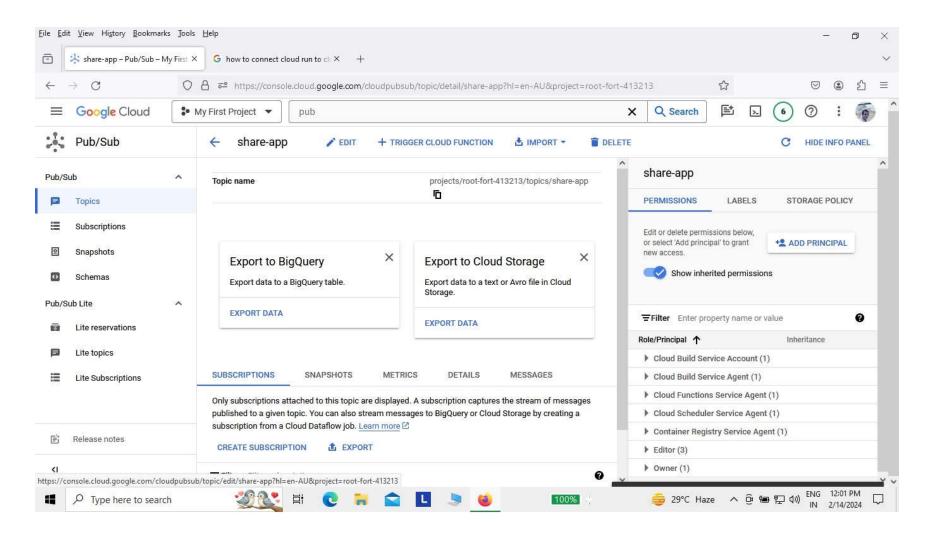


### 3. Create a PUB/SUB

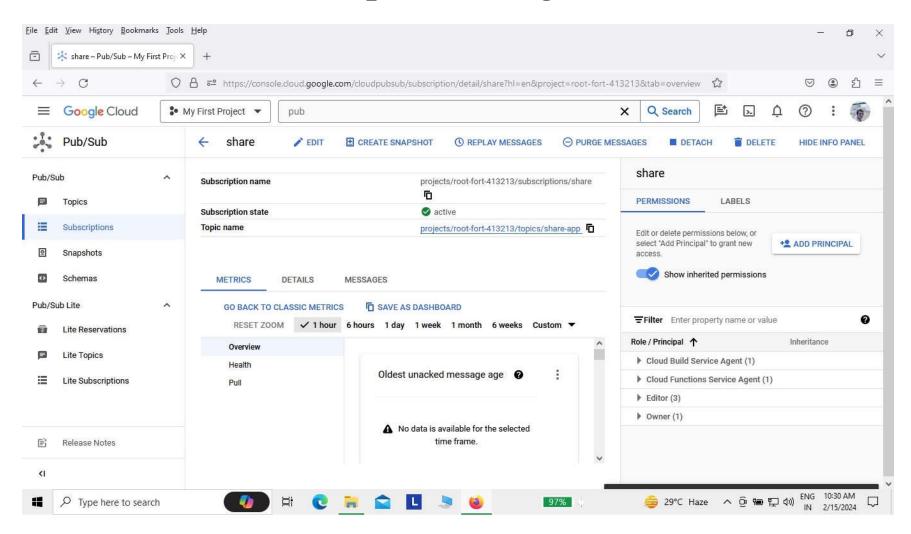


Go to search bar and type pub/sub then click the pub/sub button. Create a topic and give a name share-app. Click the create button to create topic.

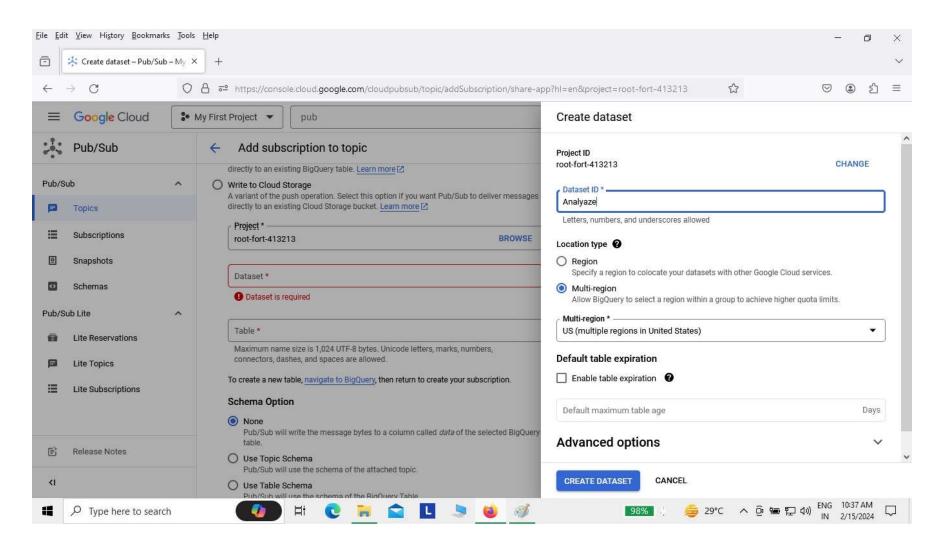
### Successfully create topic and ready



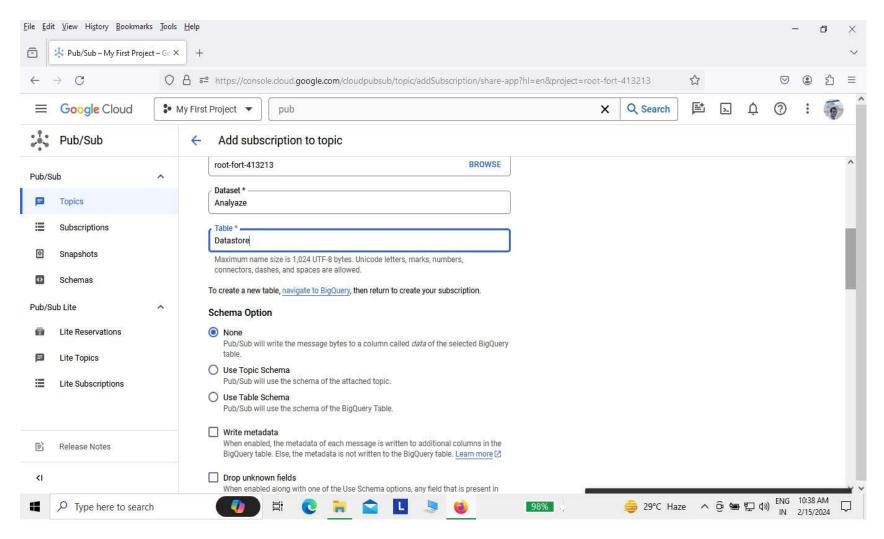
#### Click the subscription and give a name share



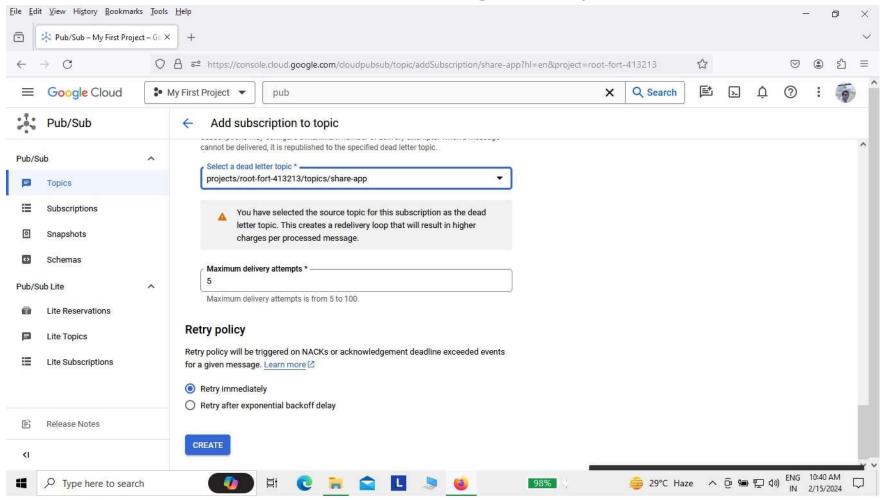
### Configure subscription to BigQuery through write data table



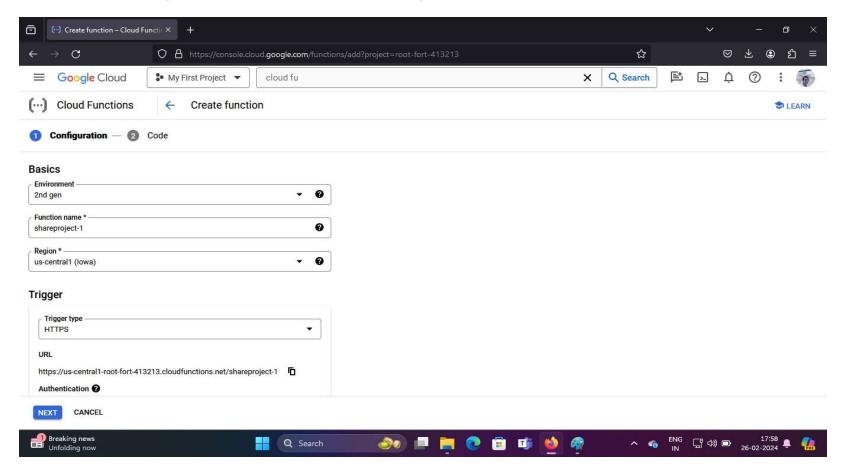
#### Configure the page and scroll down the page



## Click the create button. Now successfully link with the BigQuery.

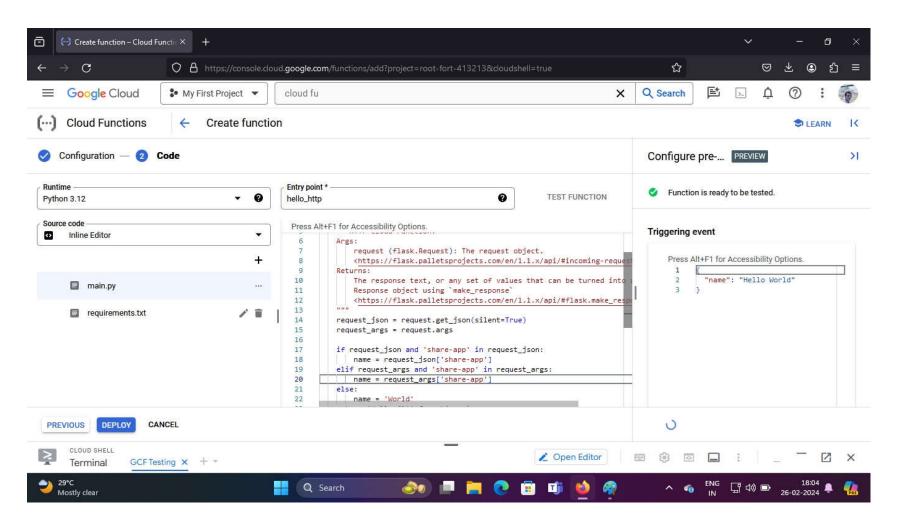


### 4. Create the Cloud Function

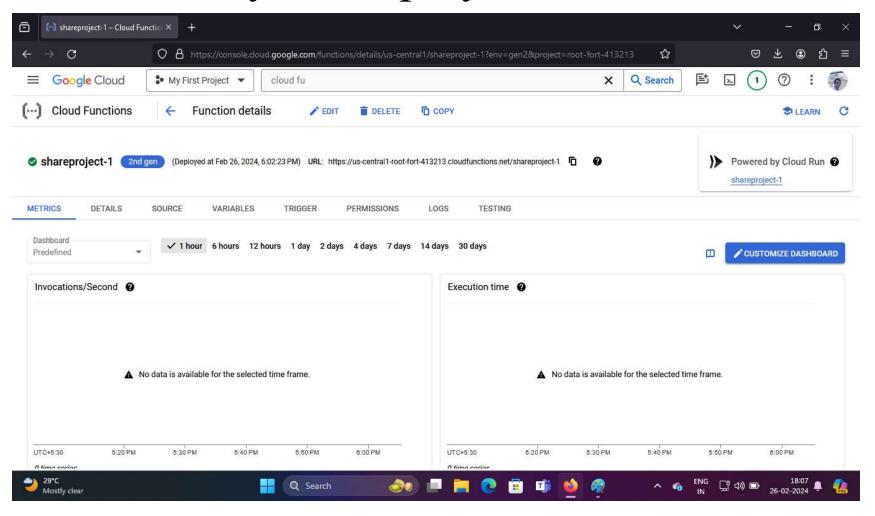


Go to search bar page and type cloud function and click the cloud function button. Give a name and click the next button.

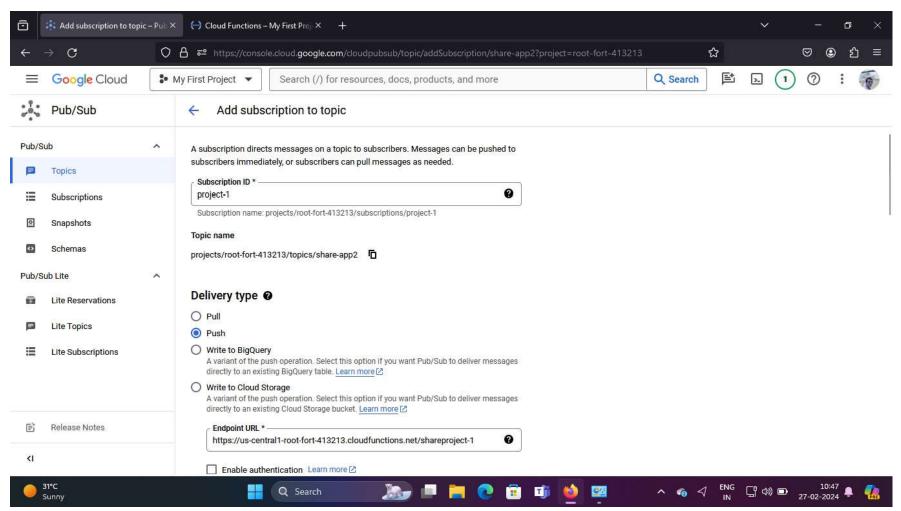
## Select the runtime and version then change code and deploy the cloud function



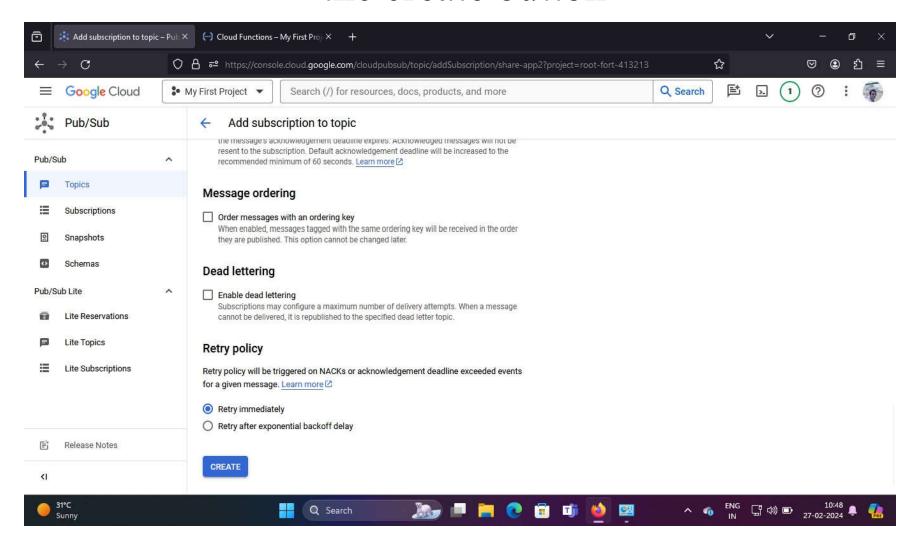
### Successfully the deploy the cloud function.



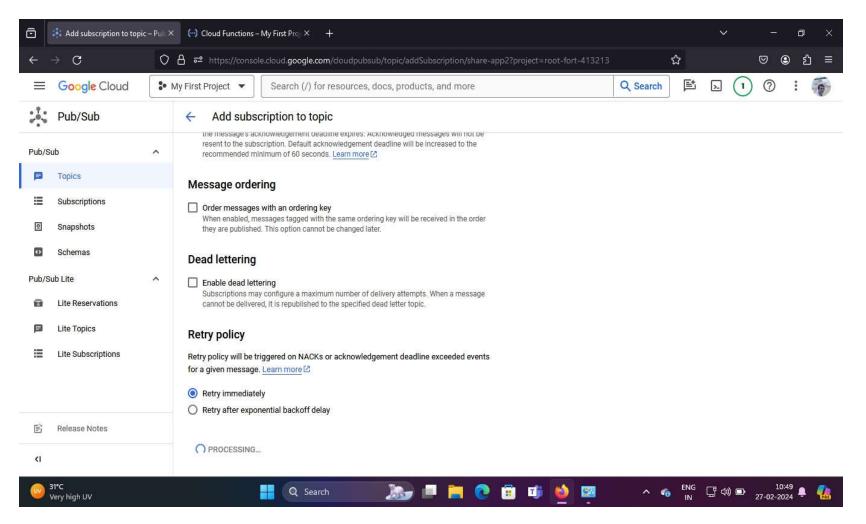
# Go to pub/sub page and click the subscription button then create a subscription and give a name project-1



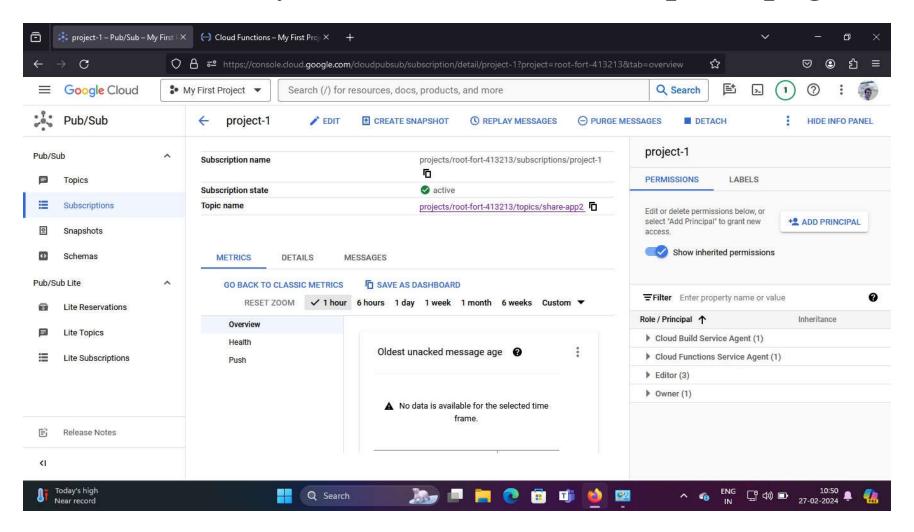
### Scroll down the page and configure then click the create button



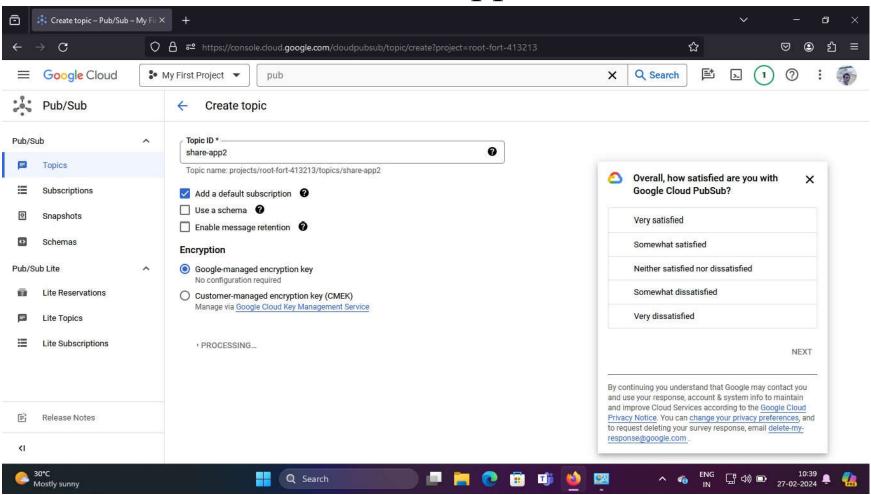
### Now processing the subscription page



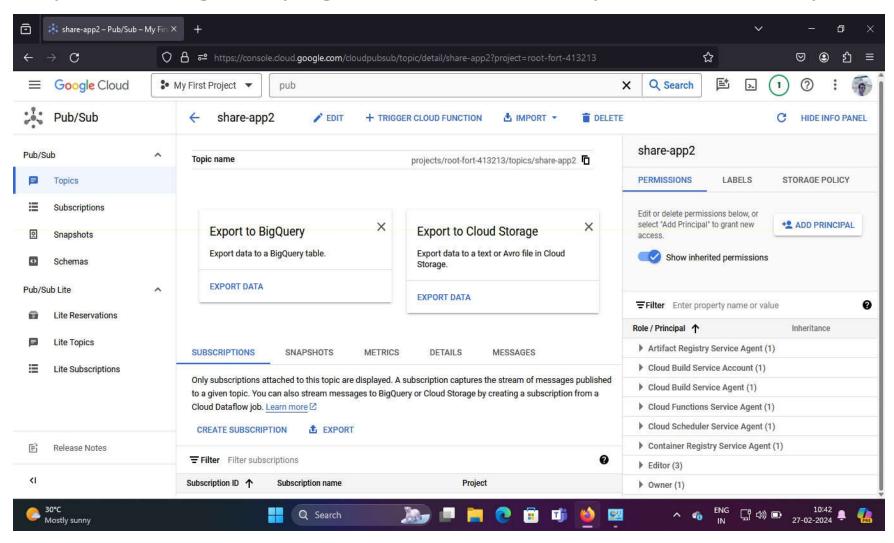
#### Successfully the create the subscription page



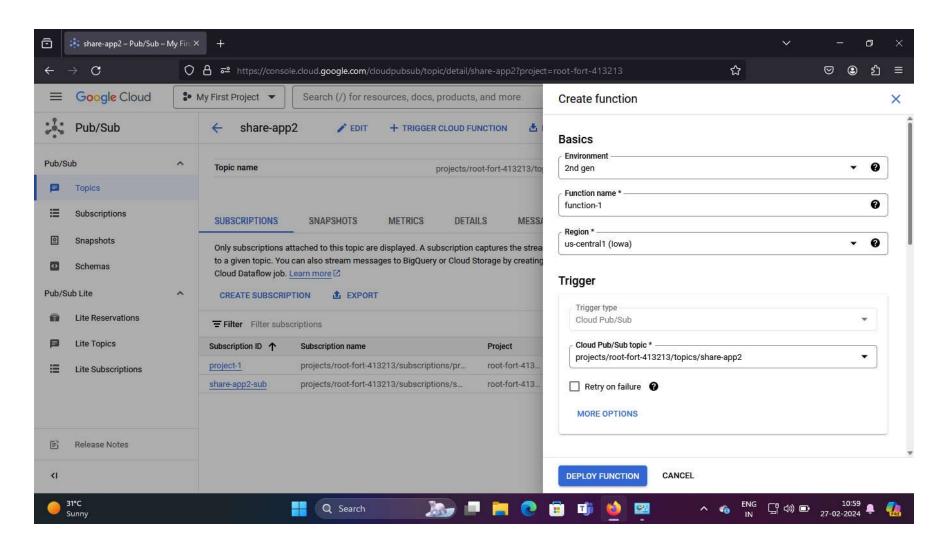
## 5. Create the new pub/sub topic and give a name share-app2



### Scroll down page then click create button. Now processing the page and successfully create the topic



### Now click the trigger function on share-app2 page and configure then deploy the function page



### Successfully the create a function

