ASSIGNMENT 9

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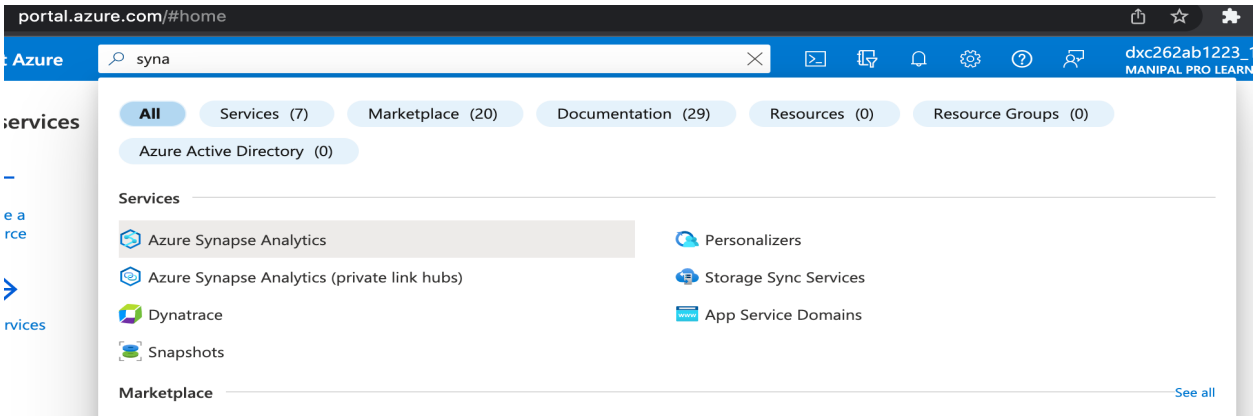
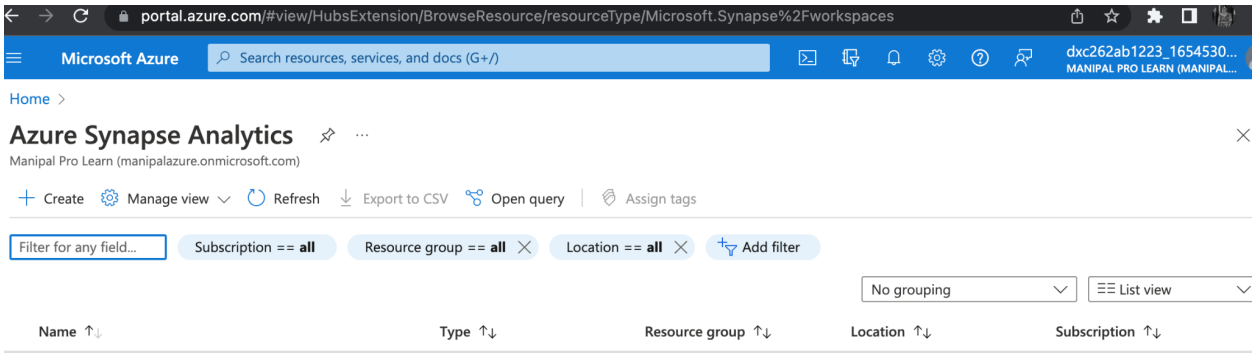
BATCH – DXC-262-ANALYTICS-B12-AZURE
COMPANY – DXC TECHNOLOGY
EMPLOYEE DOMAIN –AZURE ANALYTICS
TRAINING UNDER – MANIPAL PRO LEARN
TRAINER NAME – MR. AJAY KUMAR
DATE OF SUBMISSION – 9TH JUNE 2022
NO.OF QUESTIONS: 11

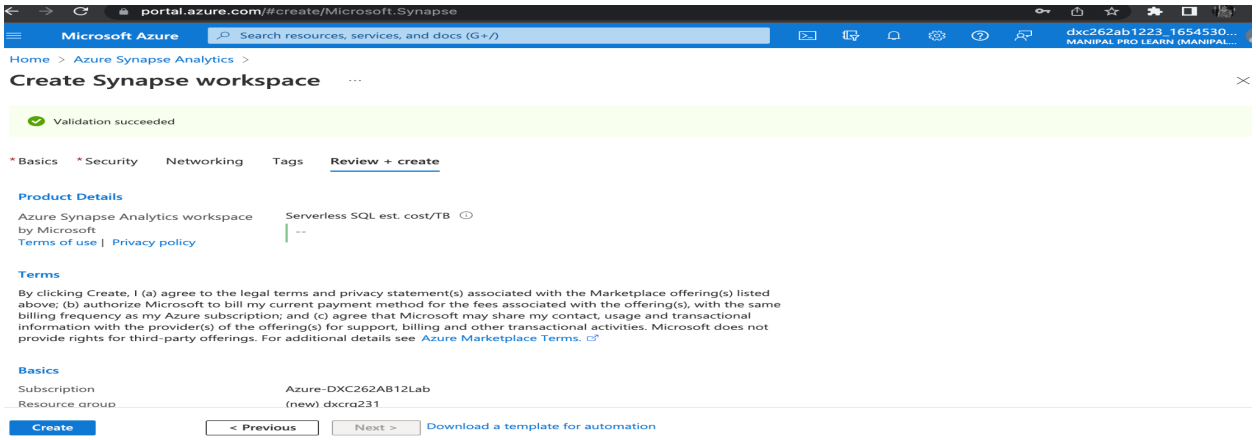
1. Explain the steps with screenshots how to create AzureSynapse analytics?
Ans:
Step 1: Login to Azure portal and search synapse and click on "**Azure Synapse Analytics**".



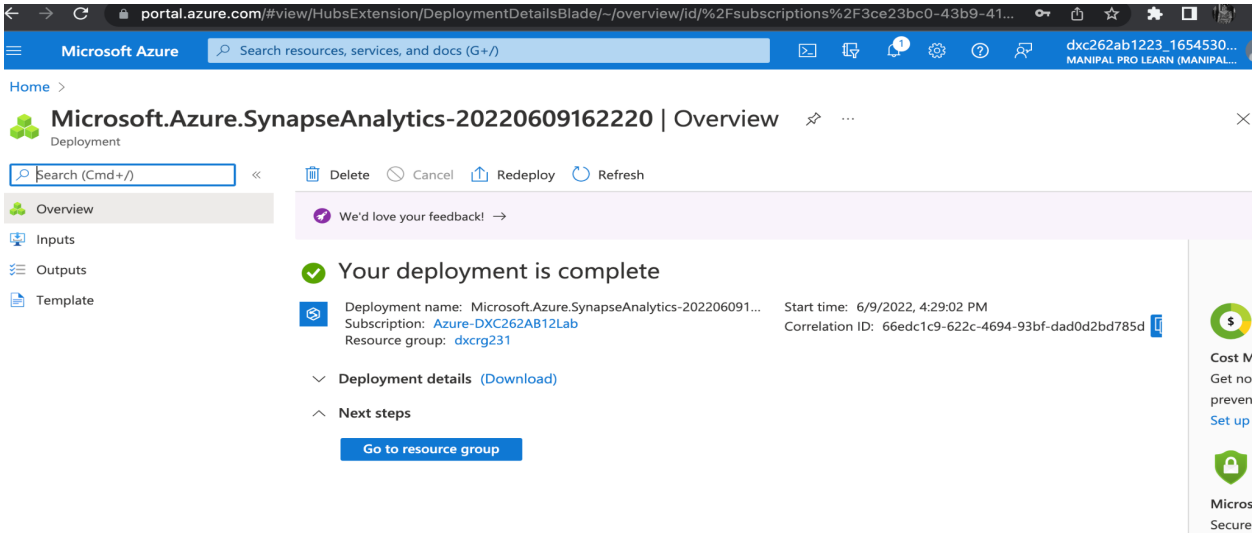
Step 2: Click on "create" to create azure synapse.



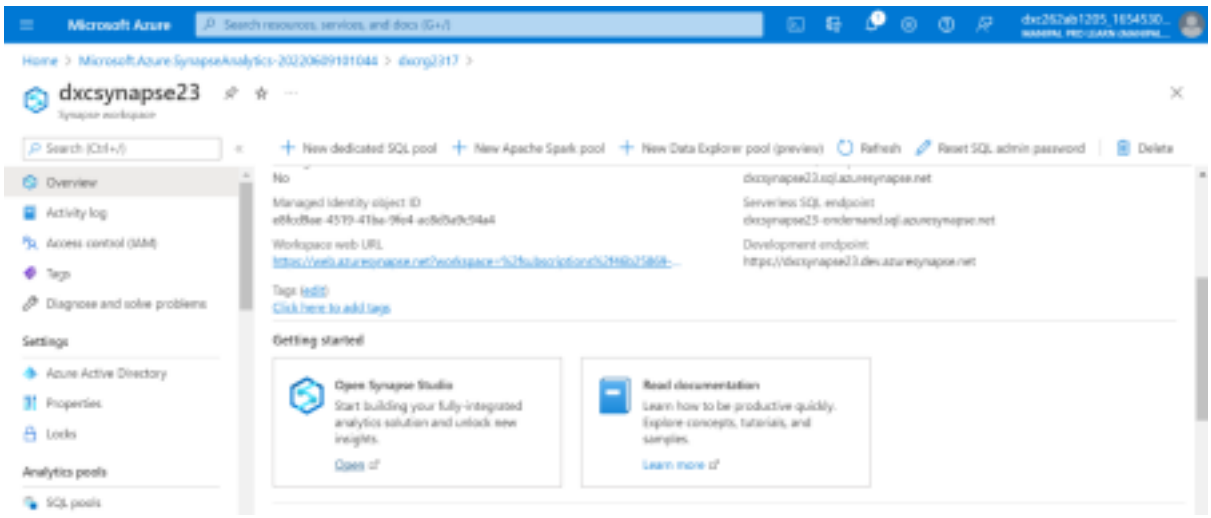
Step 3: Fill the required fields and click on "review + create" to validate the synapse.



Step 4: Now click on “create” at the bottom to deploy the synapse.



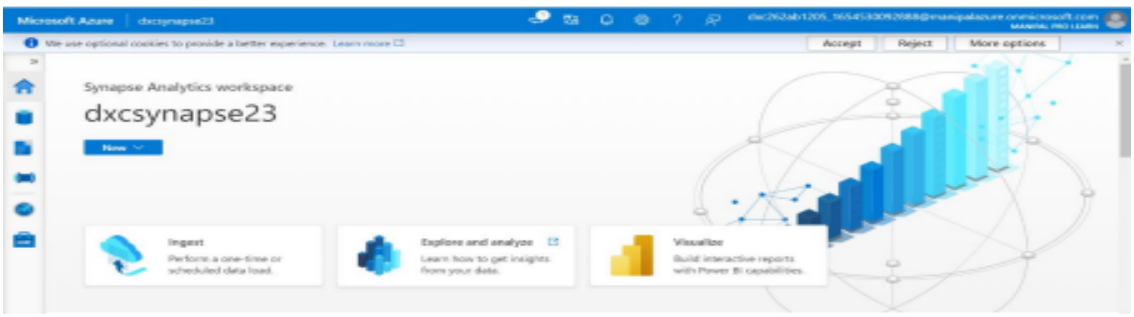
Step 5: Successfully created Azure Synapse Analytics.

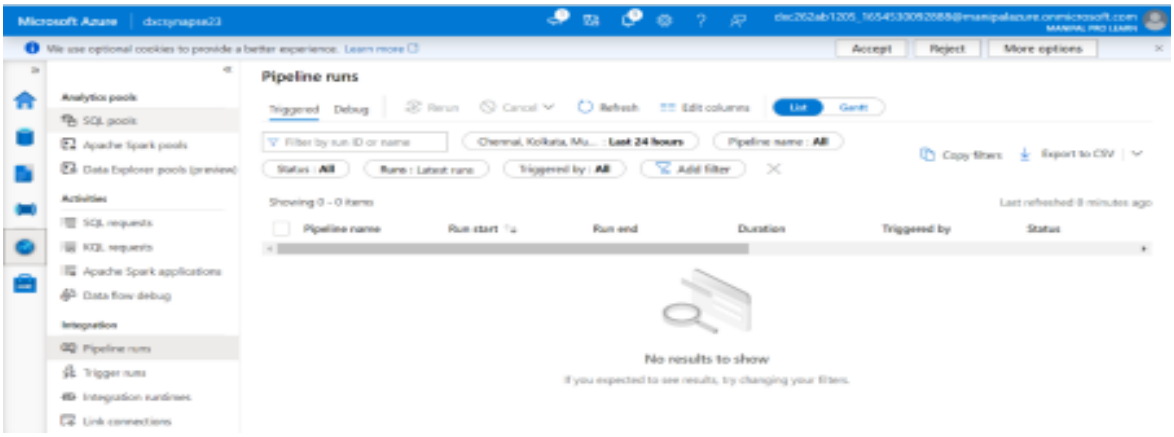


2. Explain the steps with screenshots how to SQL Pool in AzureSynapse analytics?

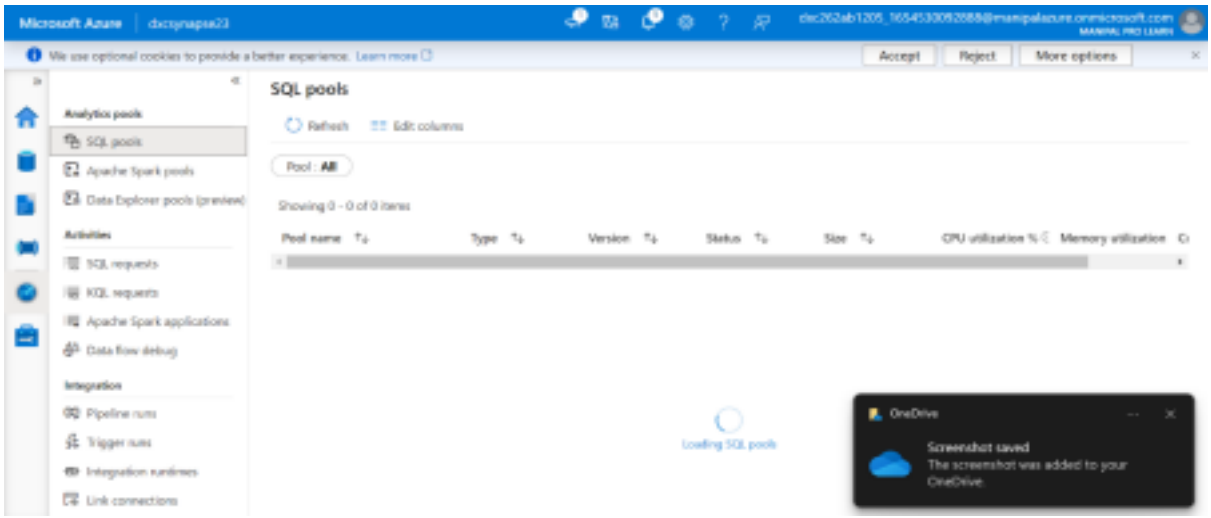
Ans:

Step 1: Open AzureSynapse and go to analytics.

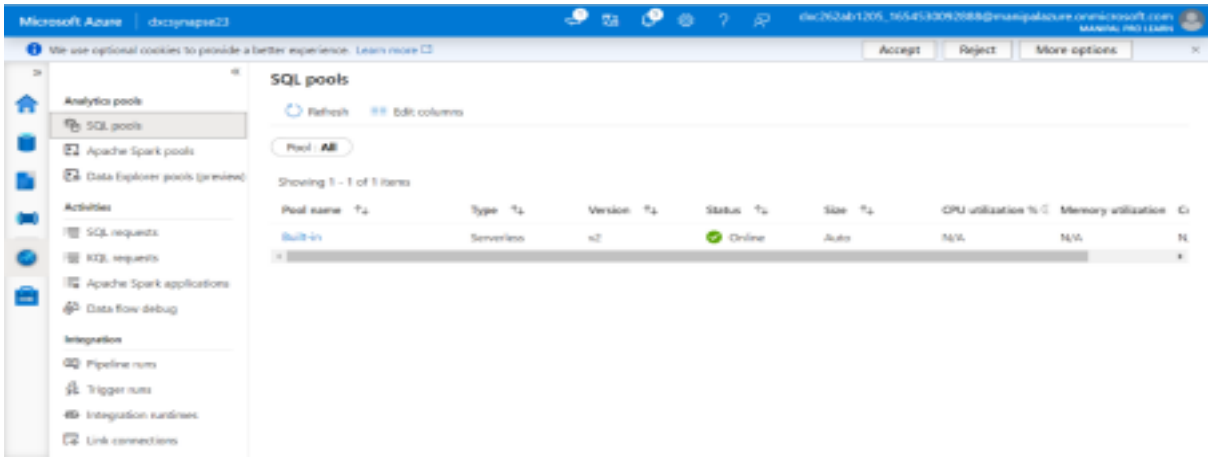




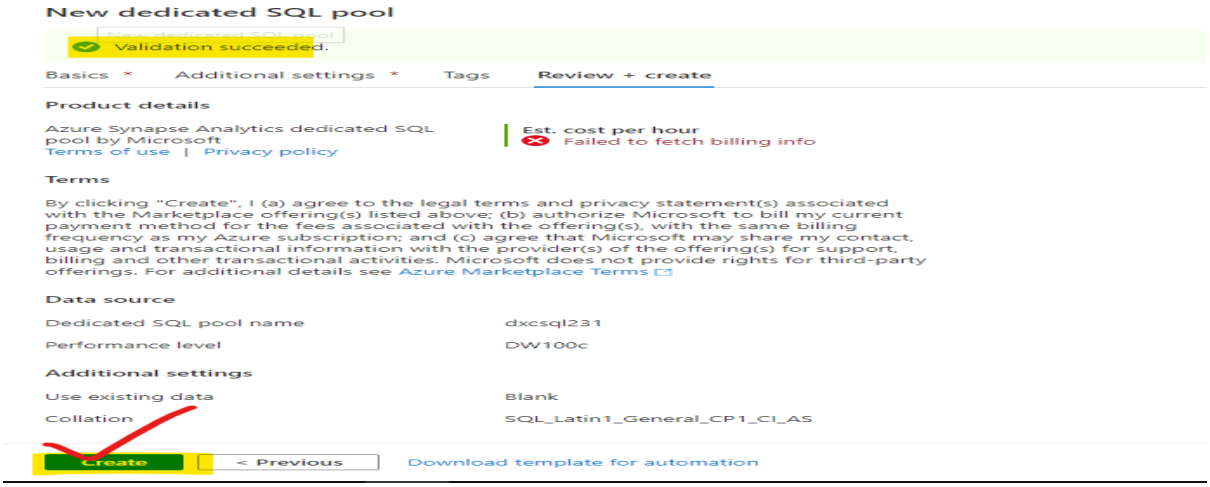
Step 2: In Analytics pools we can see SQL pools.



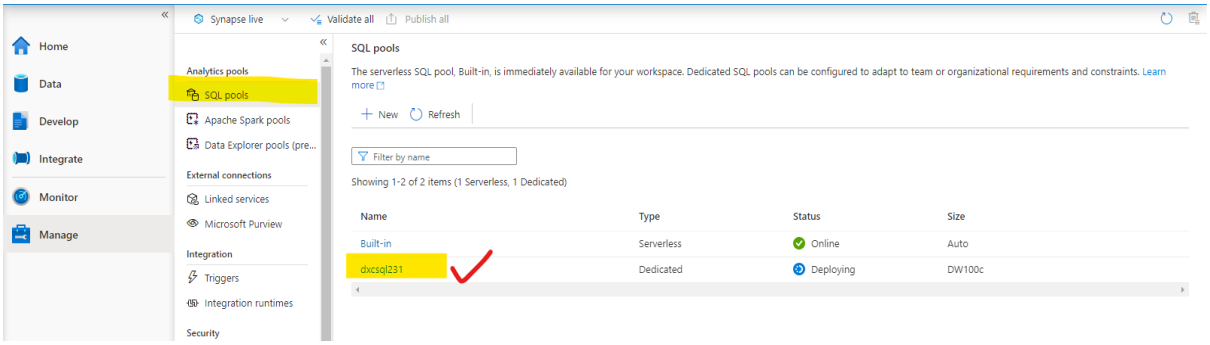
Step 3: Create a pool Built-in.



Step 4: after clicking on the new we need to finish the all details review and create.



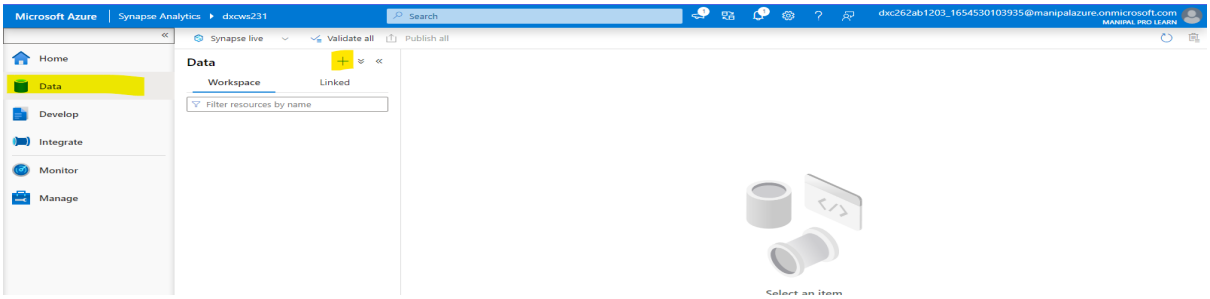
Step 5: the pool sql creation is done.



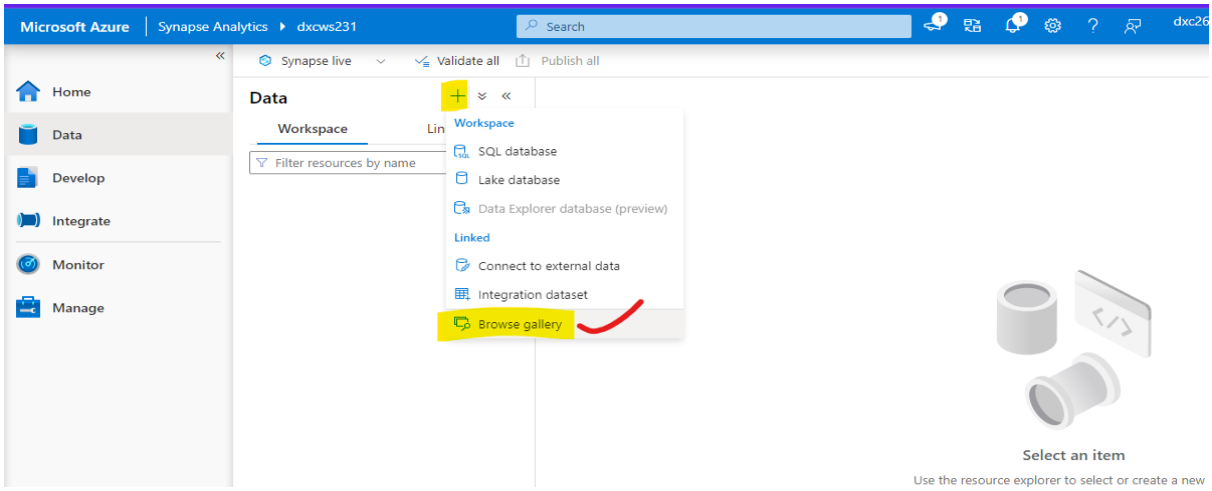
3. Explain the steps with screenshots how to import COVID19 dataset in AzureSynapse analytics and run sample 500 rows & display the output?

Ans: To insert the data in azure synapse analytics we have to follow the below mentioned steps

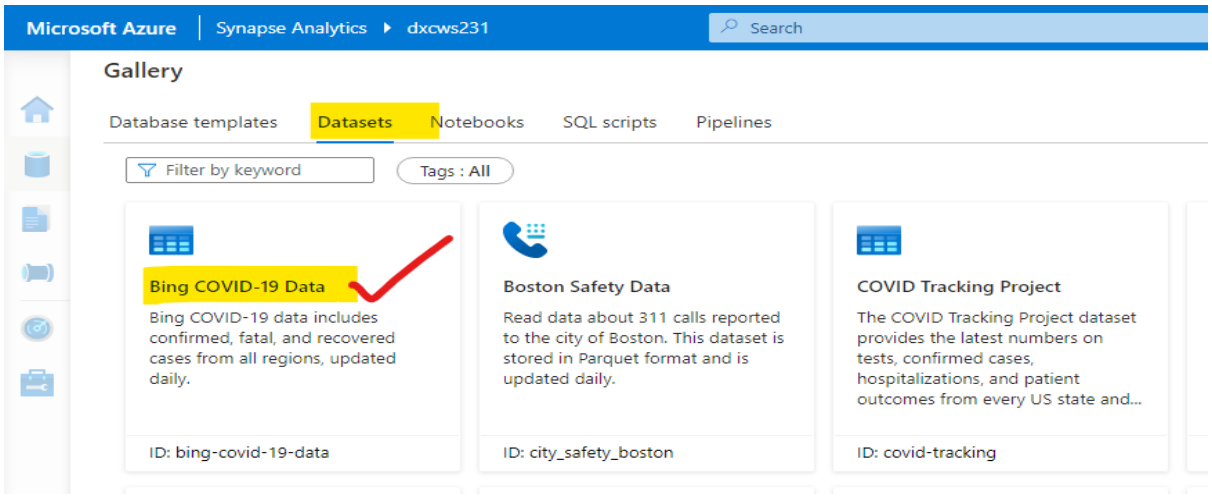
Step-1: navigate to the home page and click on data.



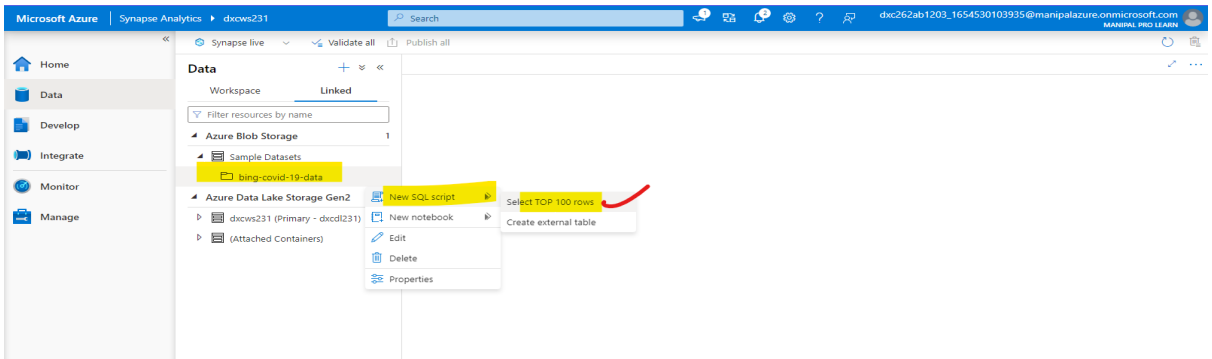
Step-2: click on the + button and choose browse gallery.



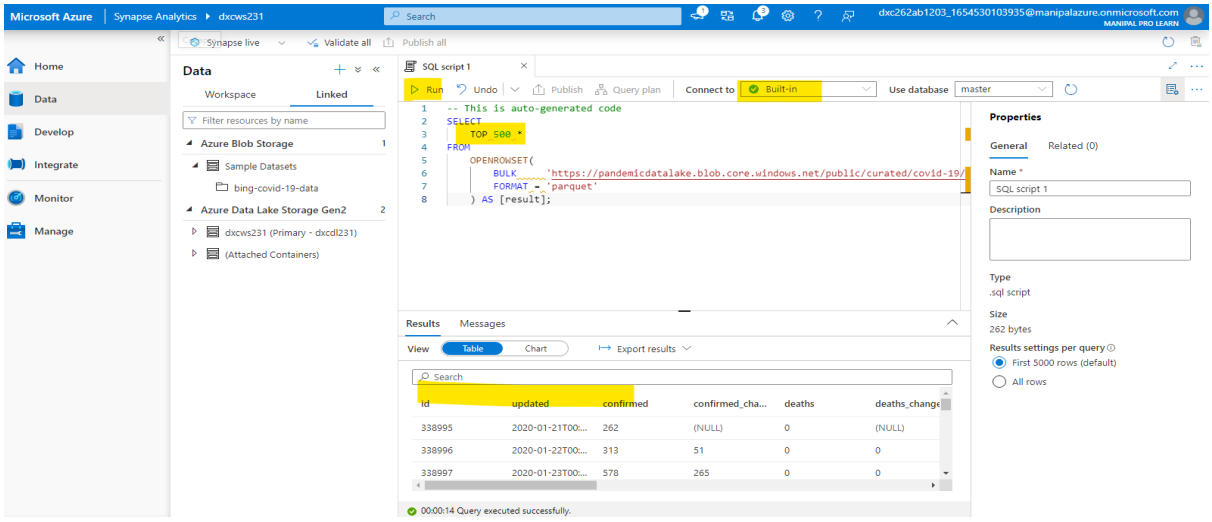
Step-3: select the covid 19 data from the menu from the data sets and add to the data sets after previewing the data.



Step-4: After that we will have to follow the following steps.



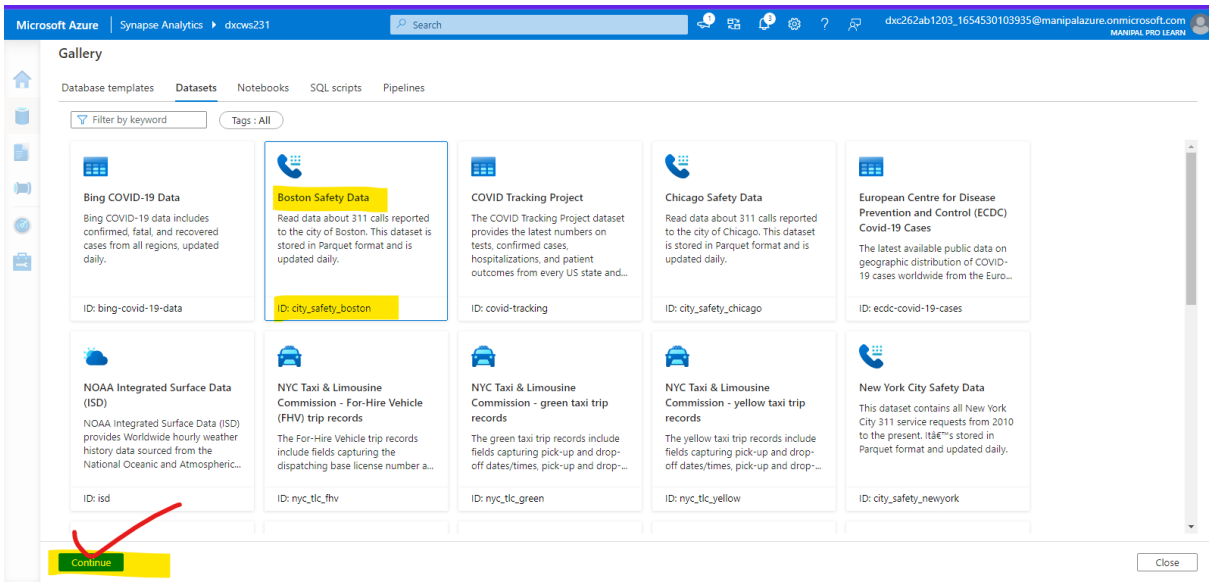
Step-5: After that run the command and the output data will be displayed.



4. Explain the steps with screenshots how to input Boston Safety datasets into AzureSynapse analytics? Using Notebooks ?

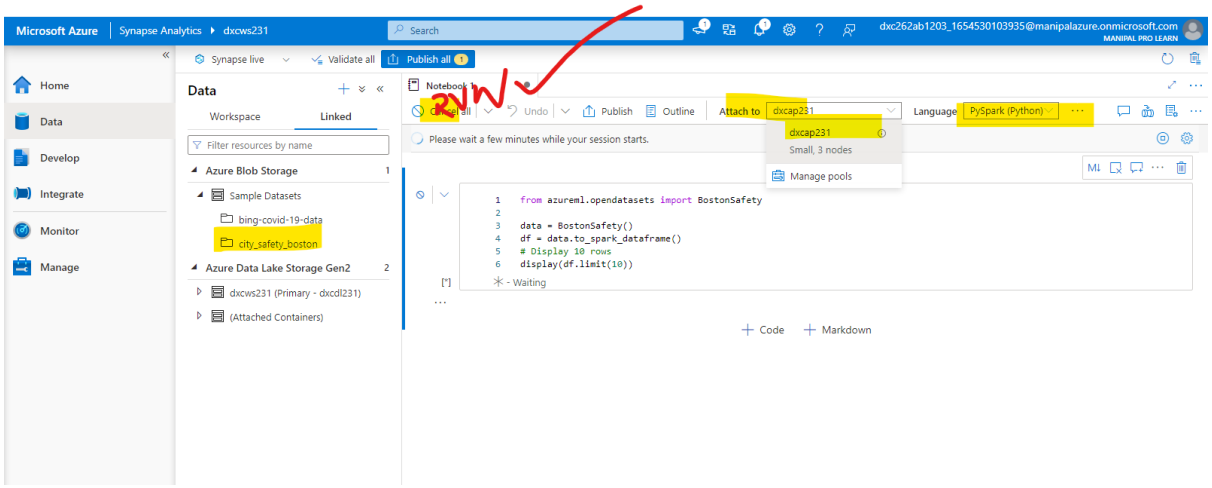
Ans: In order to input Boston safety datasets into azure synapse analytics we have to follow the mentioned steps.

Step-1: select the Boston safety data sets from the data sets and click on continue.

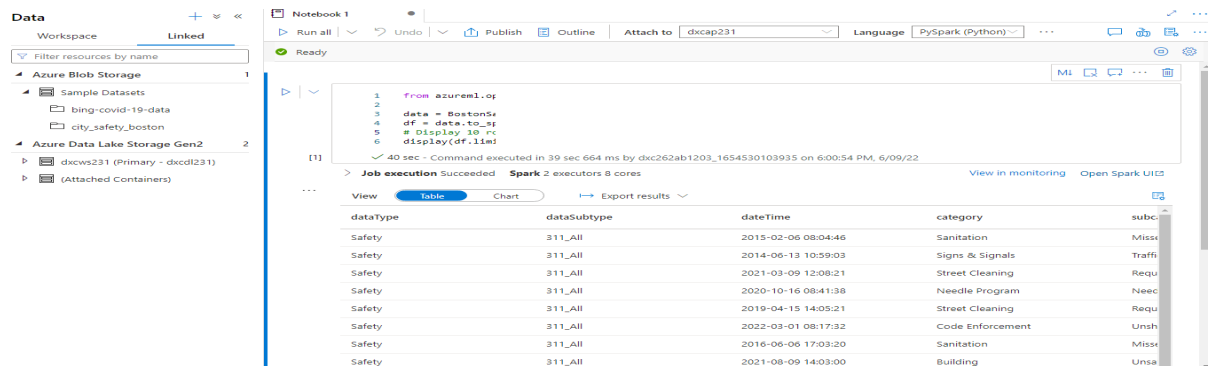


Step-2: After getting data follow the steps refer attachment select the apache pool and

Click on run it takes some time to initiate the first run.



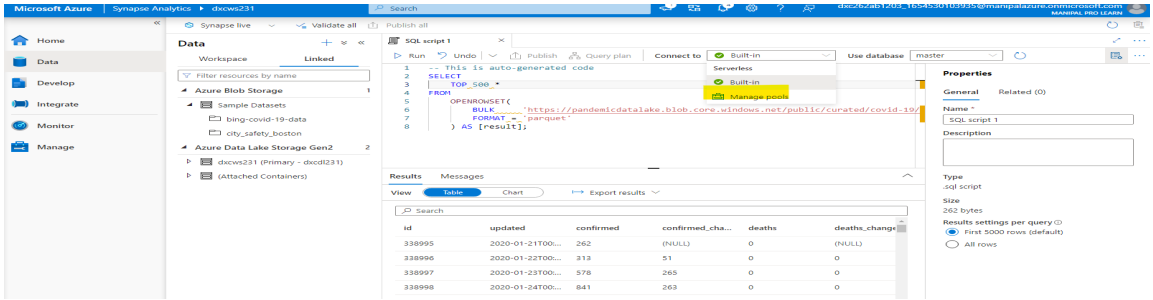
Step-3: after that the data will be displayed like this.



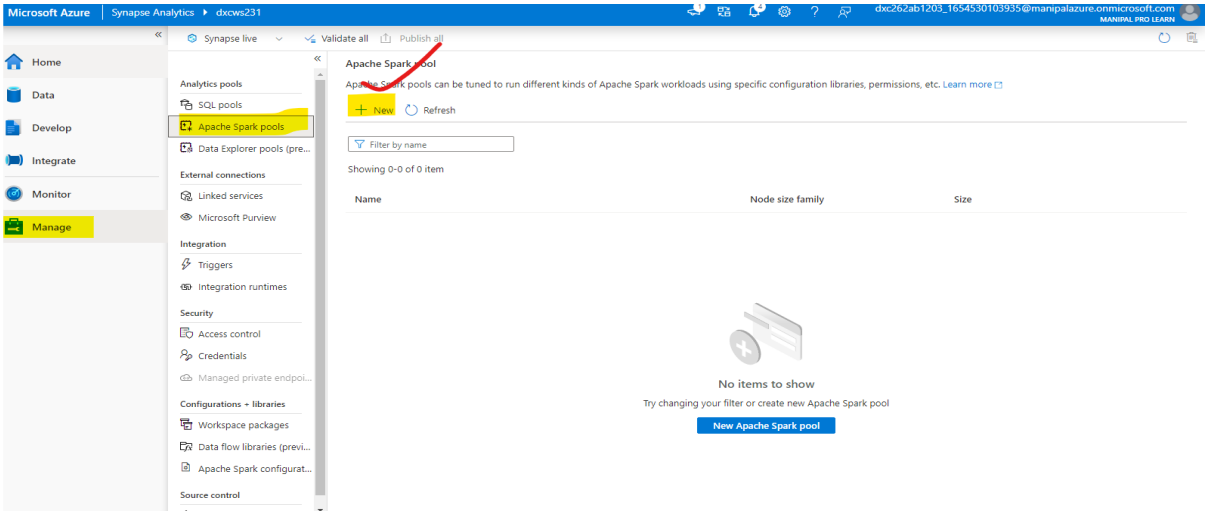
5. Explain the steps with screenshots how to create Spark pool in AzureSynapse analytics?

Ans: To create a spark pool we have to follow the steps mentioned below.

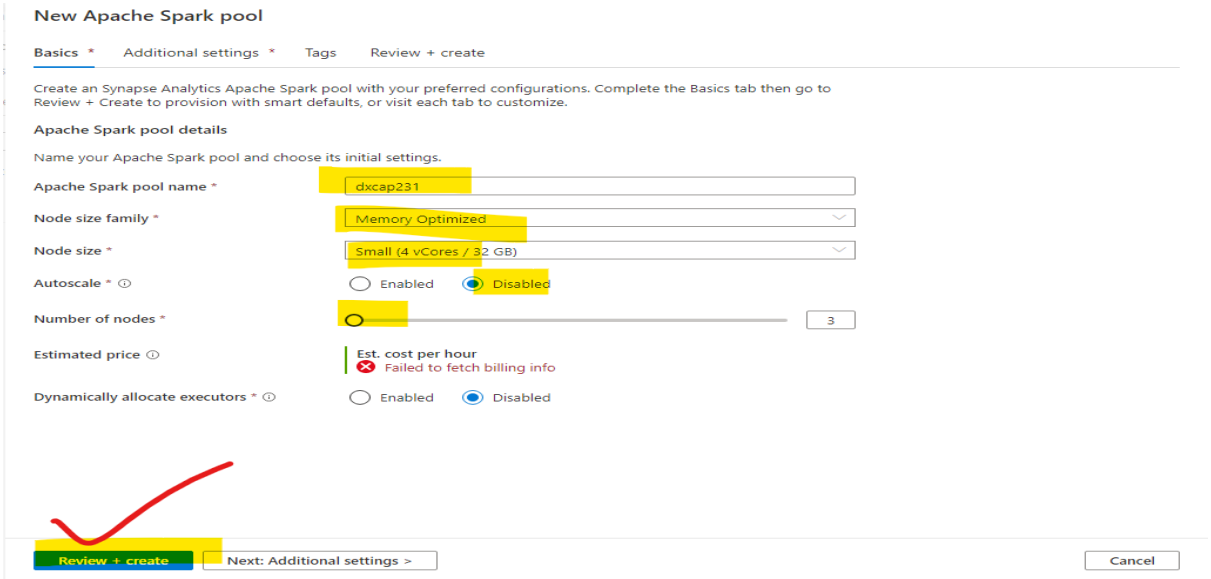
Step-1: click on manage pools.



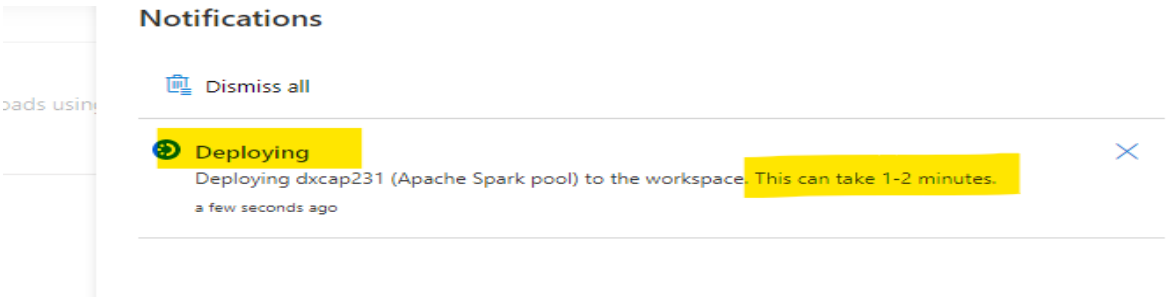
Step-2: After that it navigates to the manage page and select spark pool there refer screenshot.



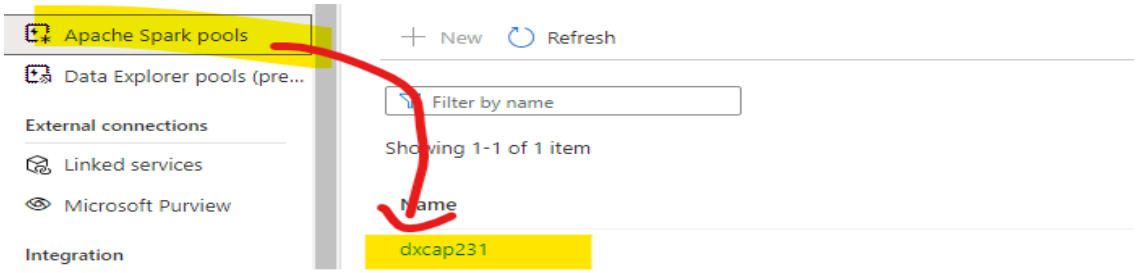
Step-3: fill all the requirements and click on review and create.



Step-4 : It takes a few minutes to deploy.



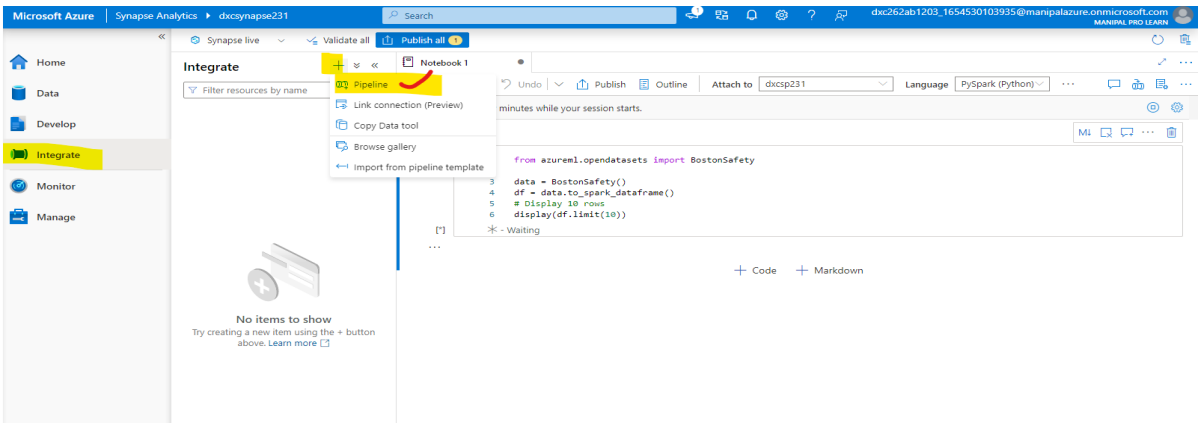
Step-5: Done.



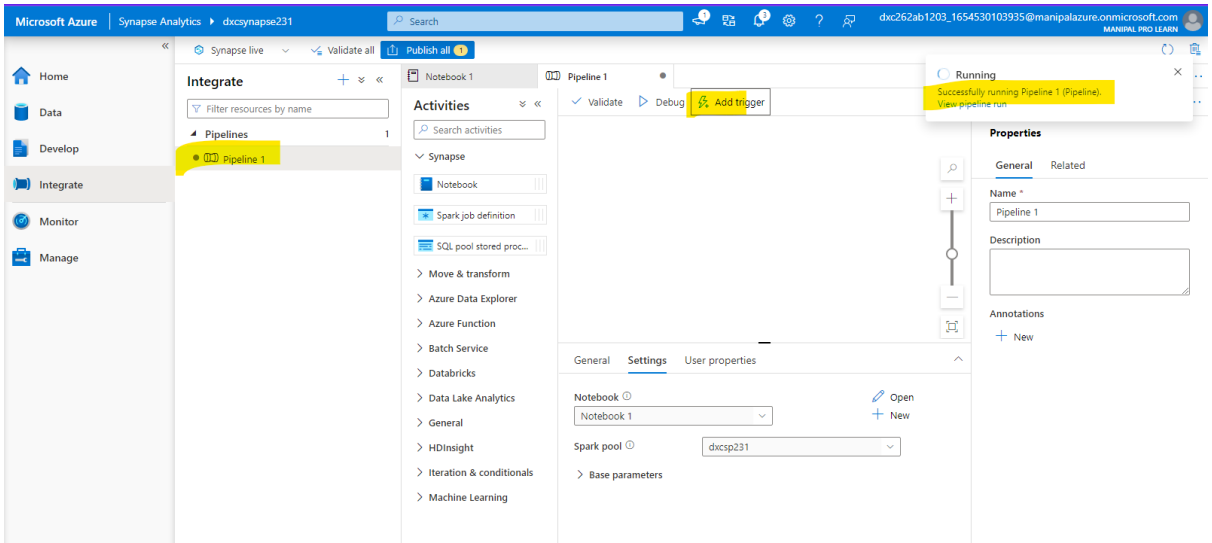
6. Explain the steps with screenshots how to create a pipeline in AzureSynapse analytics?

Ans: In azure synapse analytics we have to follow these steps to create a pipeline.

Step-1: click on integrate,"+" icon and after that click on pipeline.



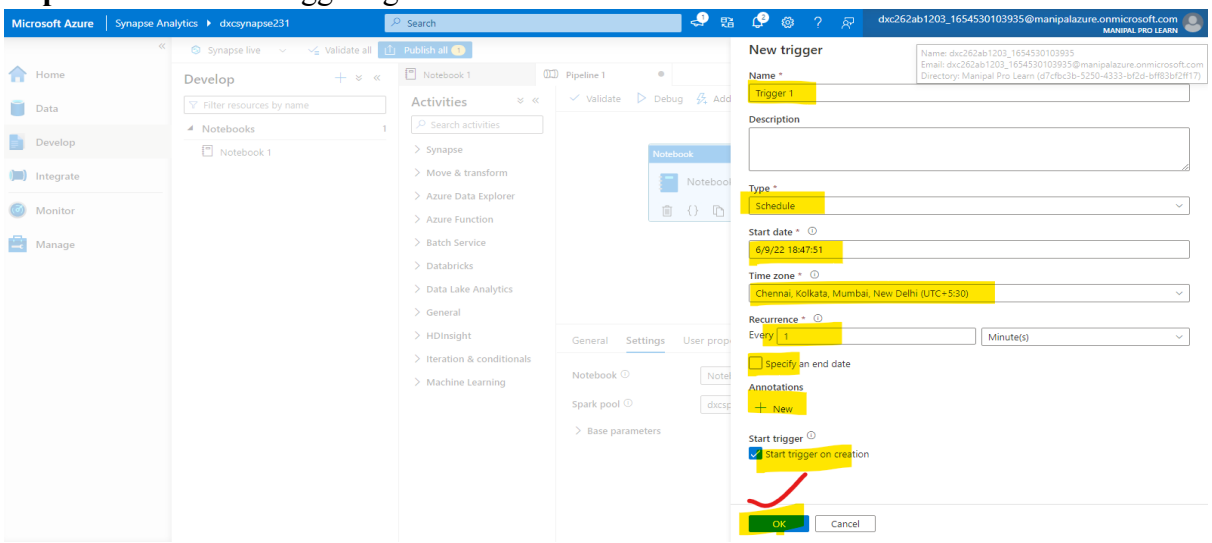
Step-2: The pipeline has been created successfully and triggered.



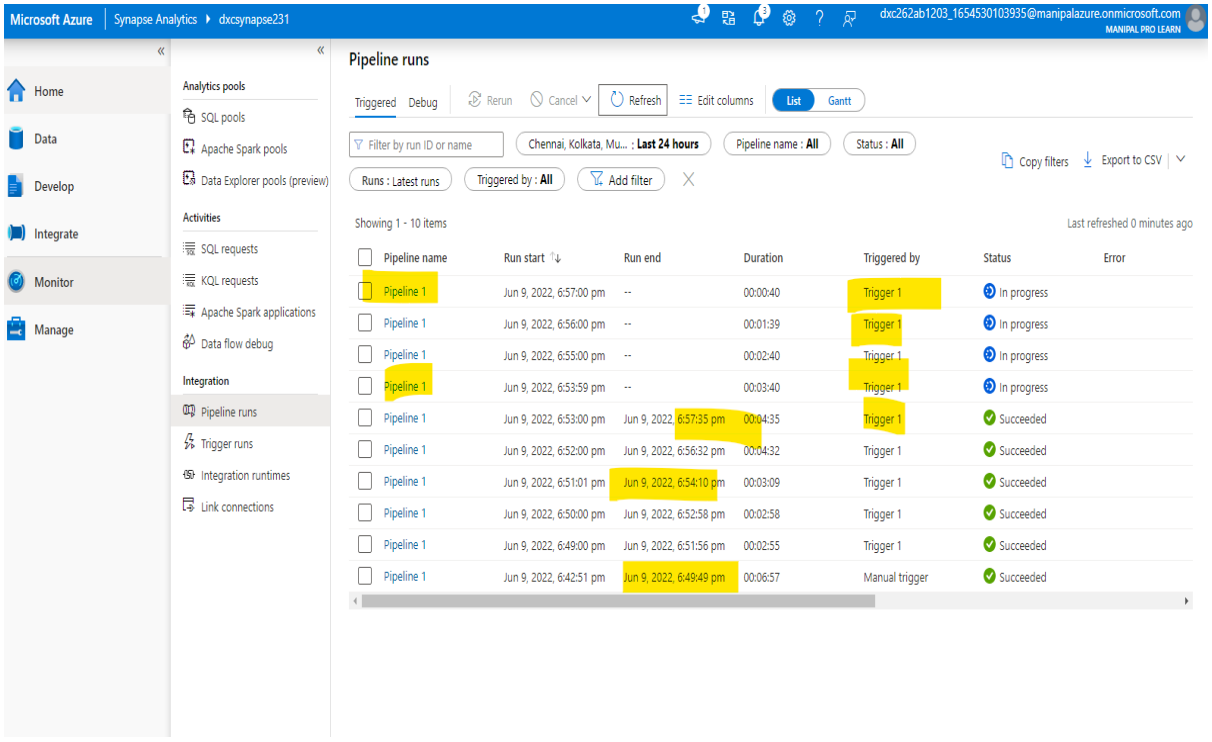
7. Explain the steps with screenshots how to automate the pipelines in AzureSynapse analytics?

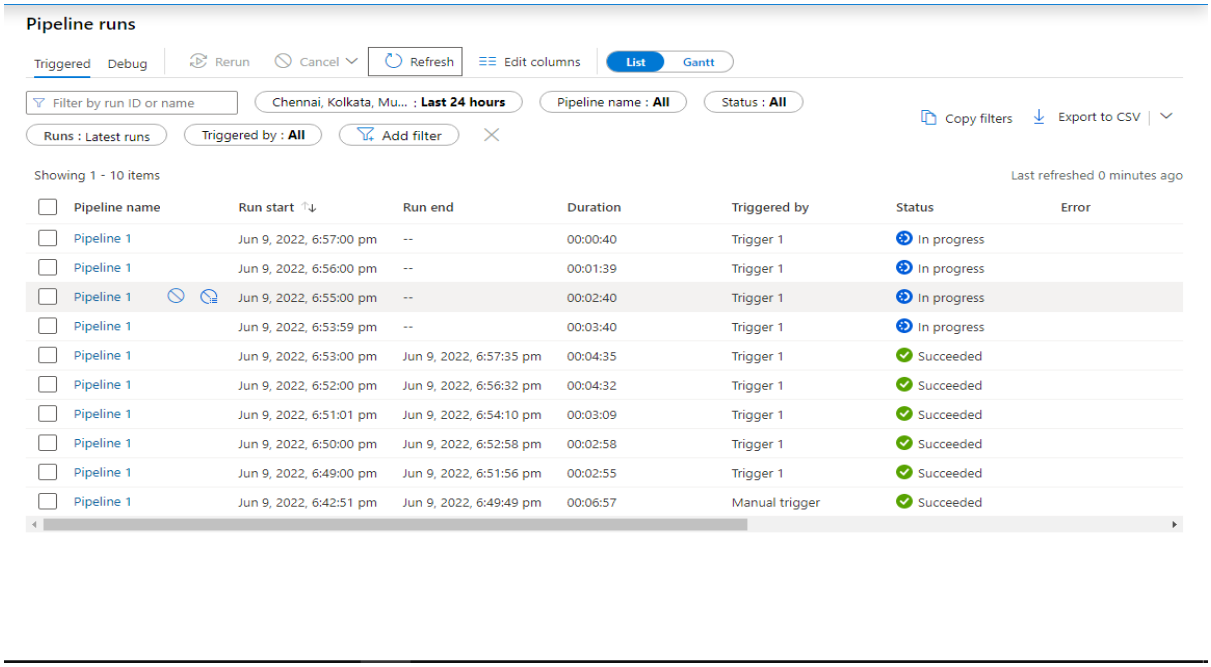
Ans: Automation of pipelines is nothing but scheduling the pipelines to trigger at the time interval given.

Step-1: schedule the triggering time and click on ok.



Step-2 : The pipeline will Automatically trigger as per the limit that you have set.

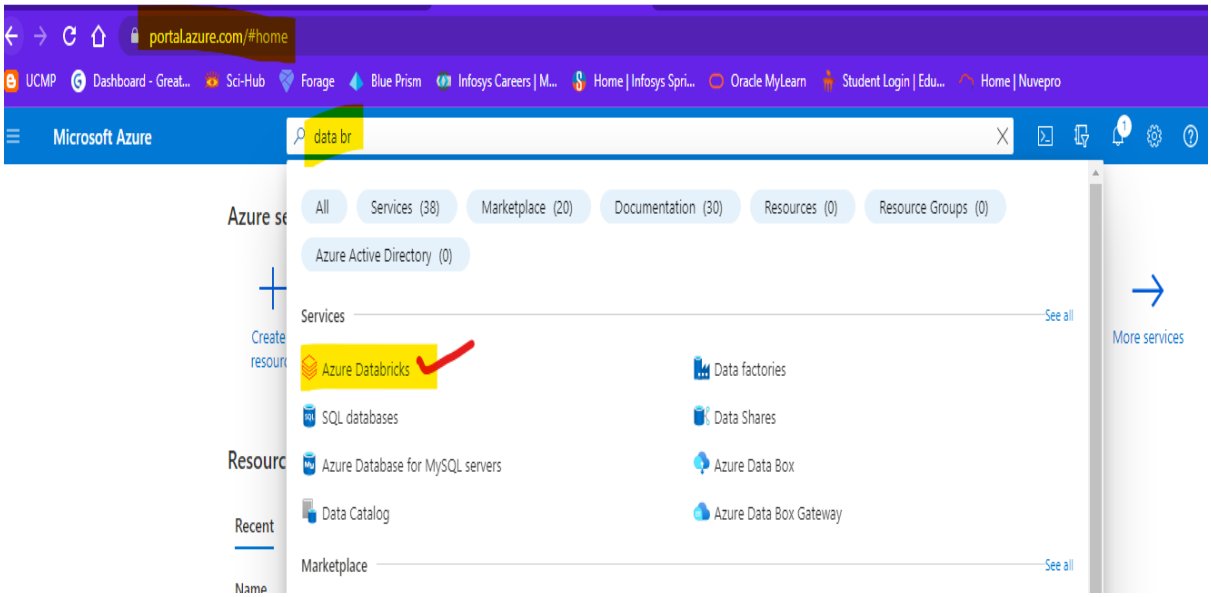




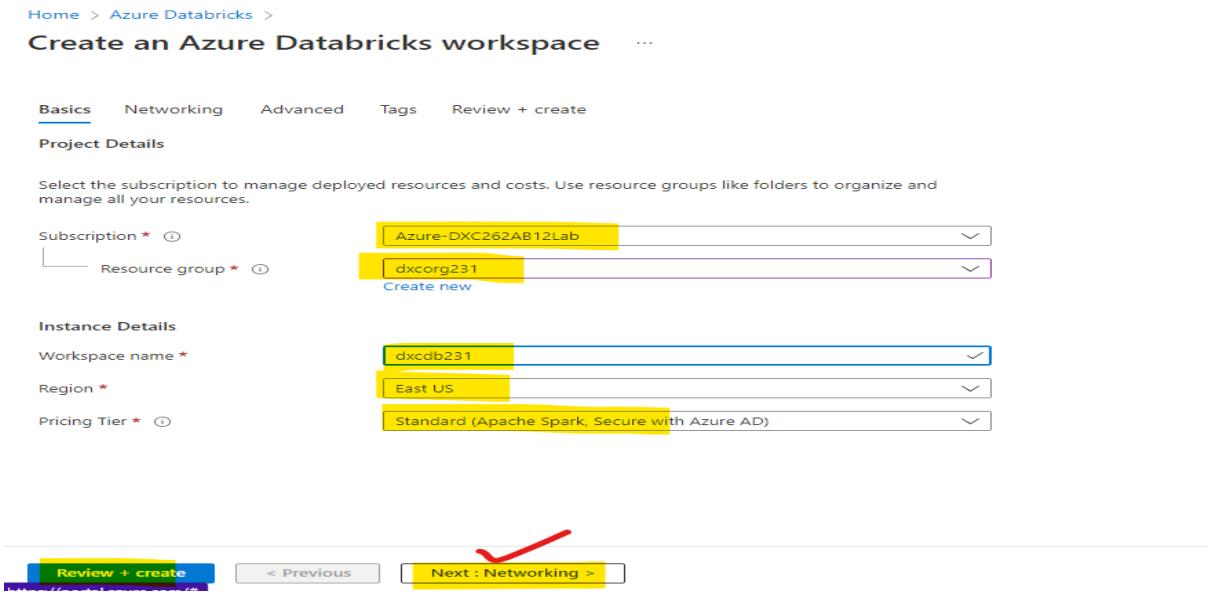
8. Explain the steps with screenshots how to create Databricks?

Ans: To create data bricks we have to follow the following steps.

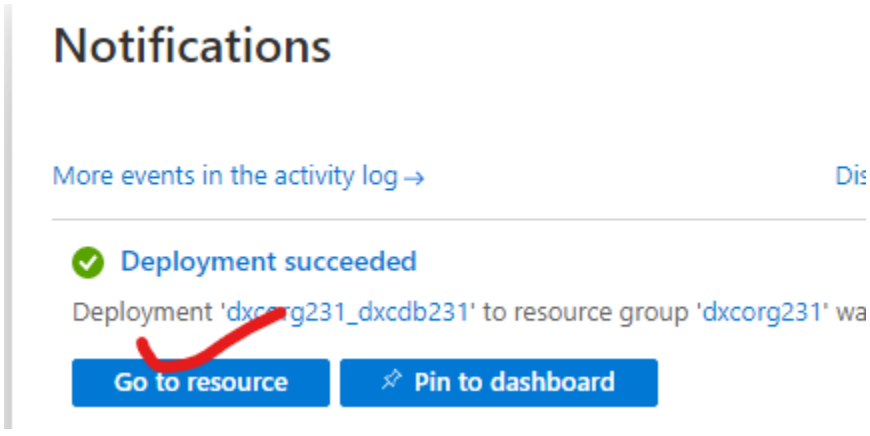
Step-1: login into the azure portal and search for the Data Bricks.



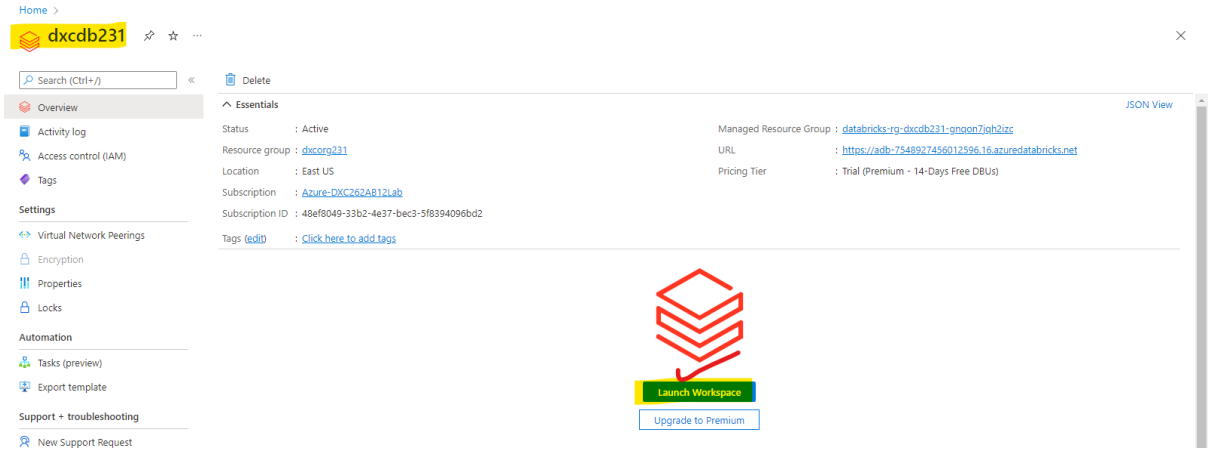
Step-2: click on azure data bricks and it will navigate you to the page. And click on create-to-create data bricks.



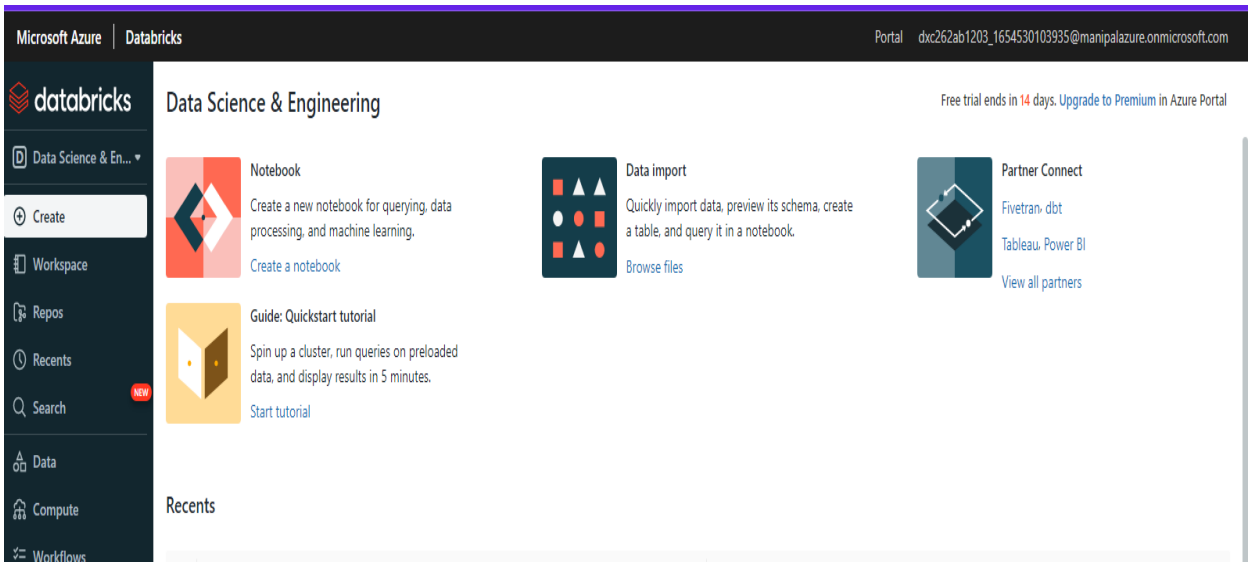
Step-3: After checking all these reviews and creating and waiting for deployment after deployment we will get like this.



Step-4: after clicking the go to resource button you are navigated to the data bricks.



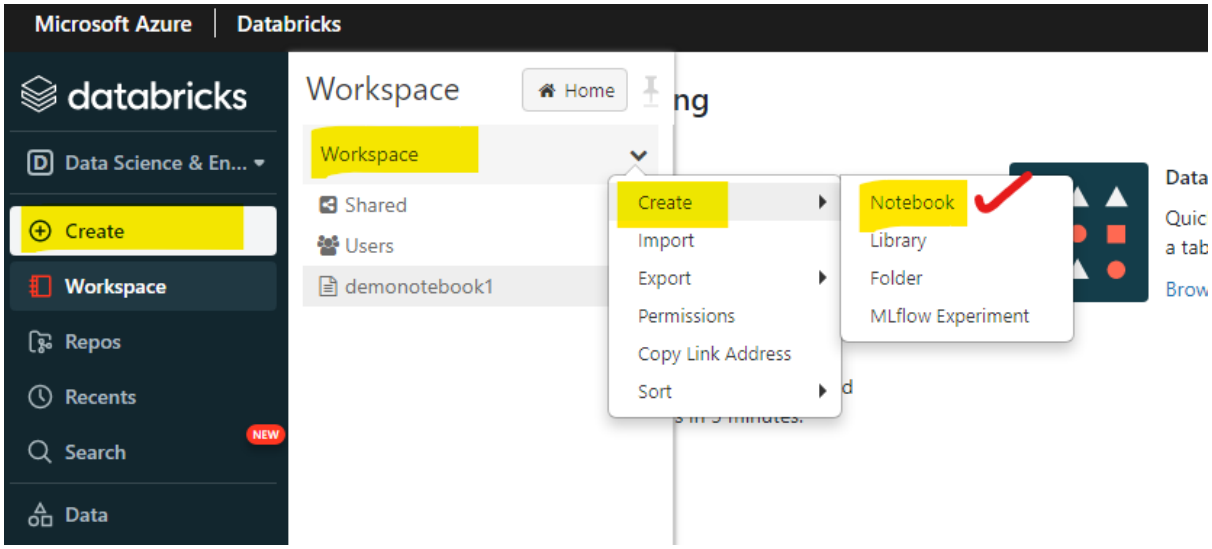
Step-5: After clicking on launch workspace, you are in data bricks.



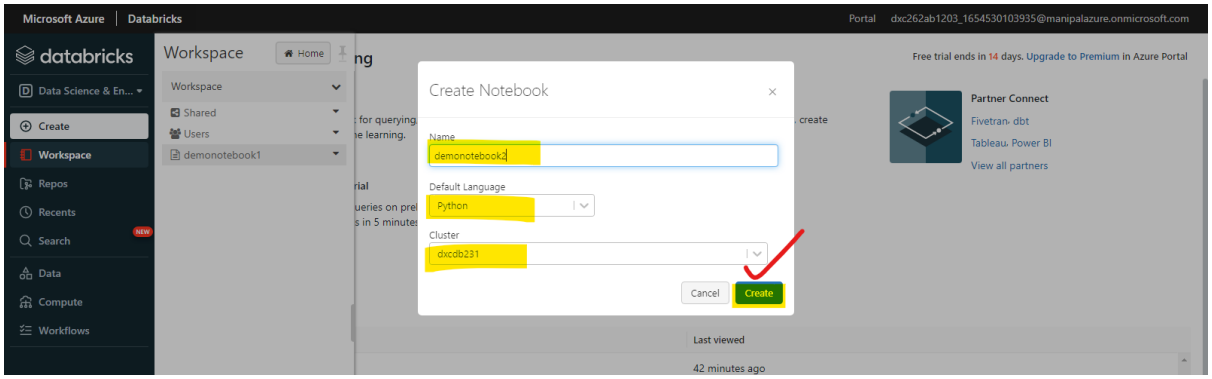
9. Explain the steps with screenshots how to create notebooks in Databricks?

Ans: To create Notebooks in Data bricks we have to follow the below mentioned steps.

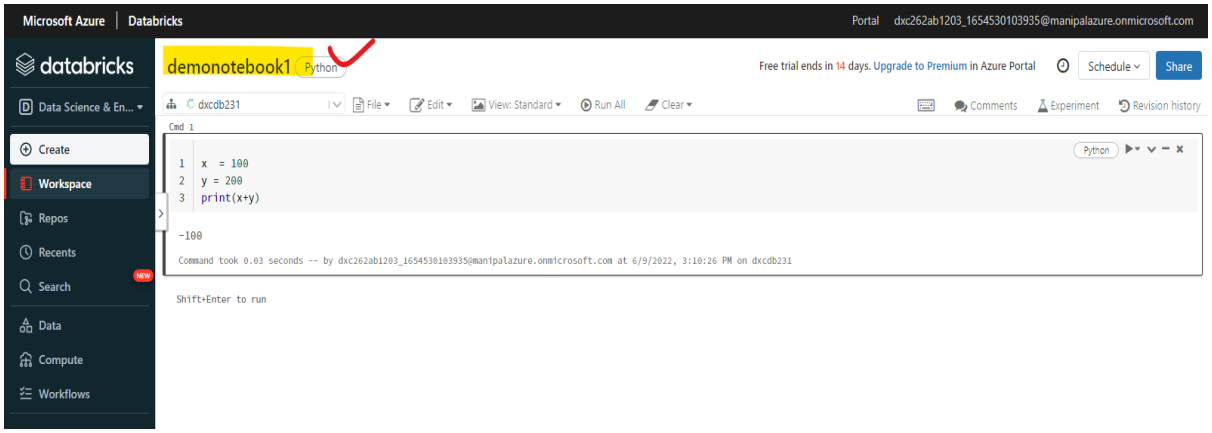
Step-1 : open azure portal and navigate to azure data bricks after that follow the attached screenshots.



Step-2: click on the note book and name it and choose the language cluster.



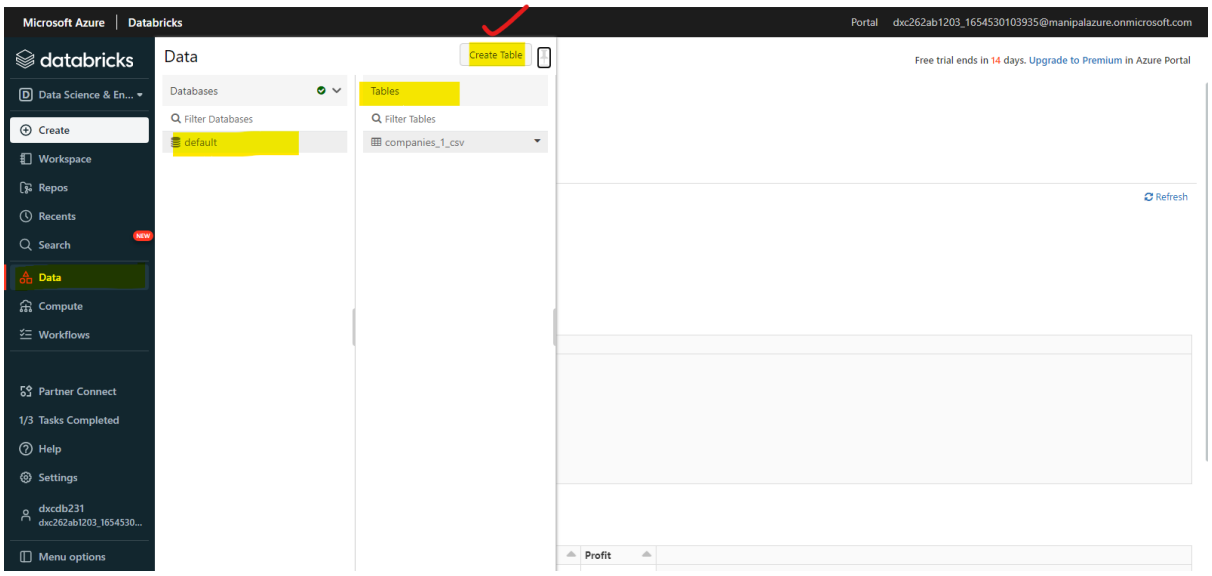
Step-3: The notebook is created in data bricks.



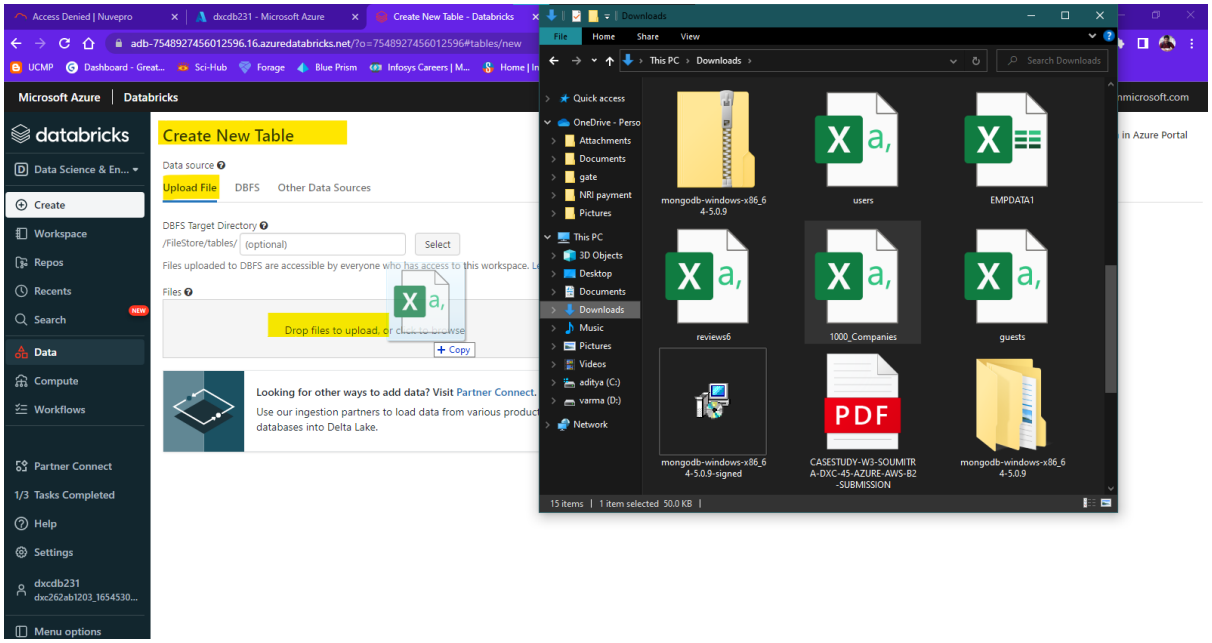
10. Explain the steps with screenshots how to insert data into databricks notebook & display the result?

Ans: In order to insert data into databricks notebook we can insert data as mentioned below.

Step-1: open the data bricks workspace and click on data and it will navigate to a tab and click on create table.

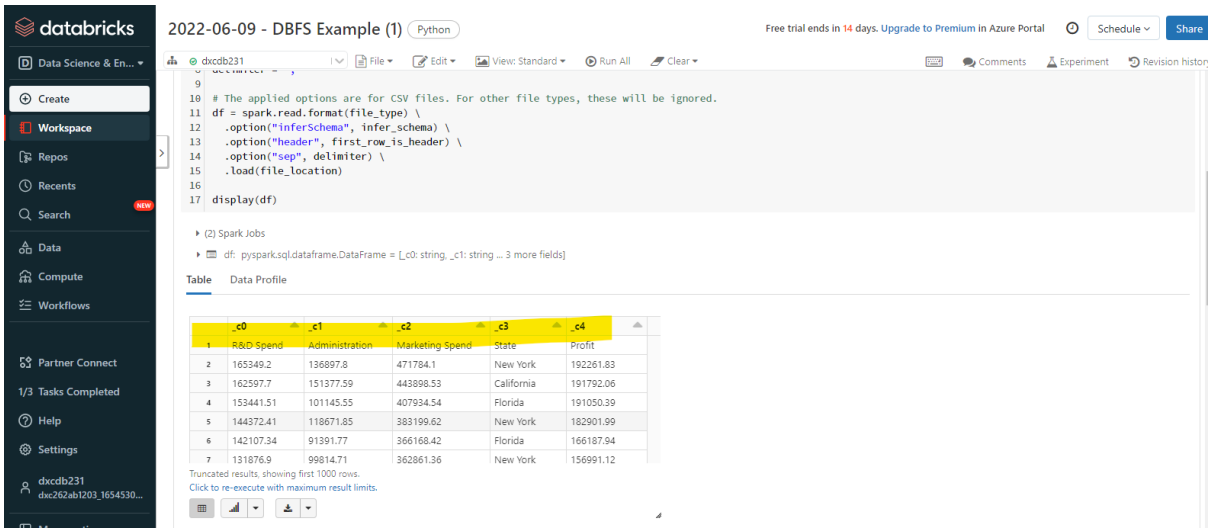


Step-2 : after clicking on create table. We can drag and drop the files which we need to insert into the notebook refer attachment for better understanding.



Step-3: After uploading the table click on create table in notebook.

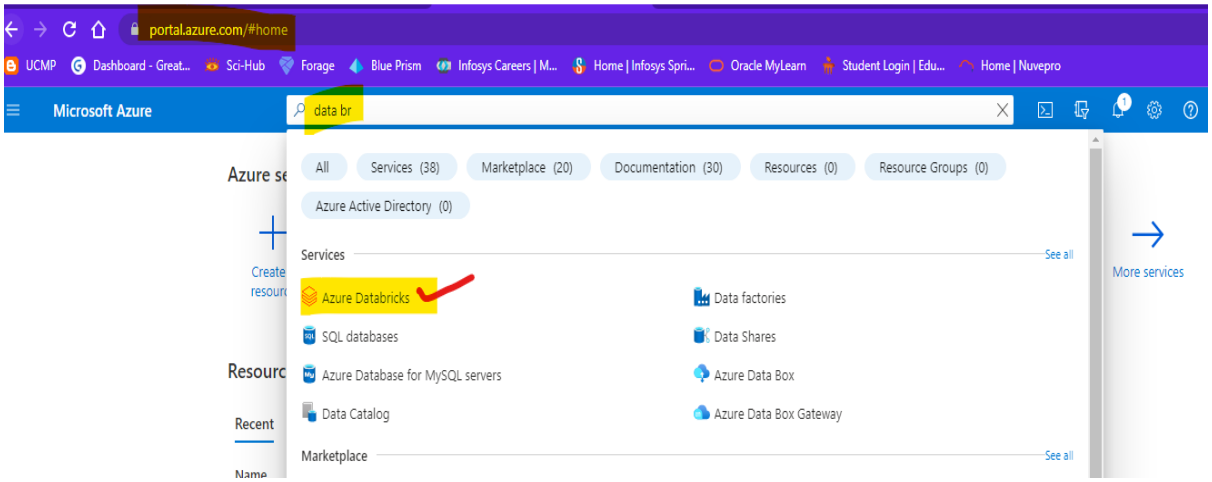
Step-4: After running, run all commands, note that cluster is attached.



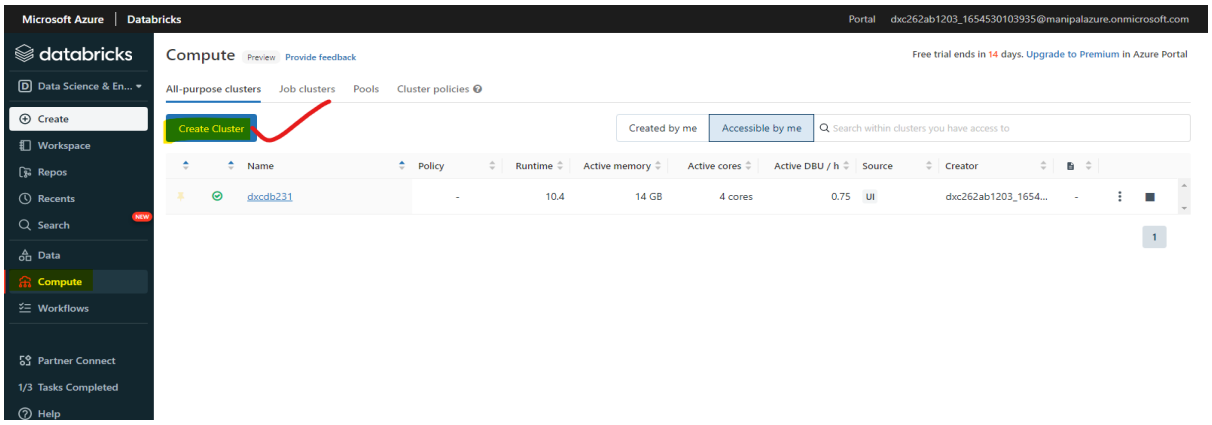
11. Explain the steps with screenshots how to create clusters in databricks?

Ans: To create a cluster in data bricks we have to follow the steps mentioned below.

Step-1: login into the azure portal and navigate to the data bricks which we already created before.



Step-2: After navigating to the data bricks portal and click on compute and click on create cluster.



Step-3: after that name the cluster and select requirements and click on create-to-create cluster.