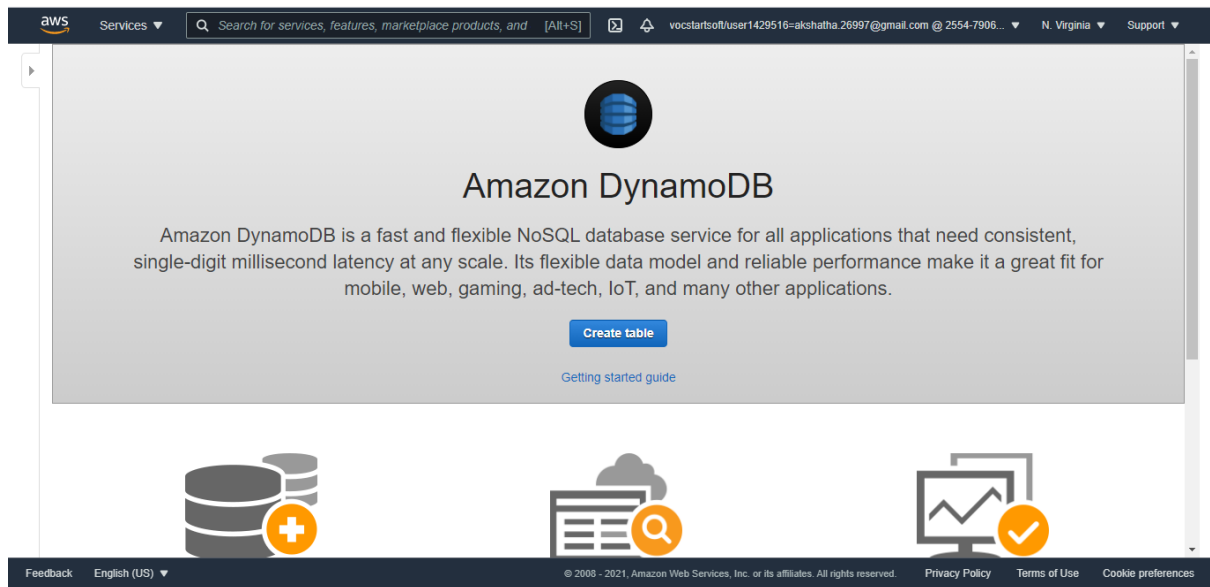
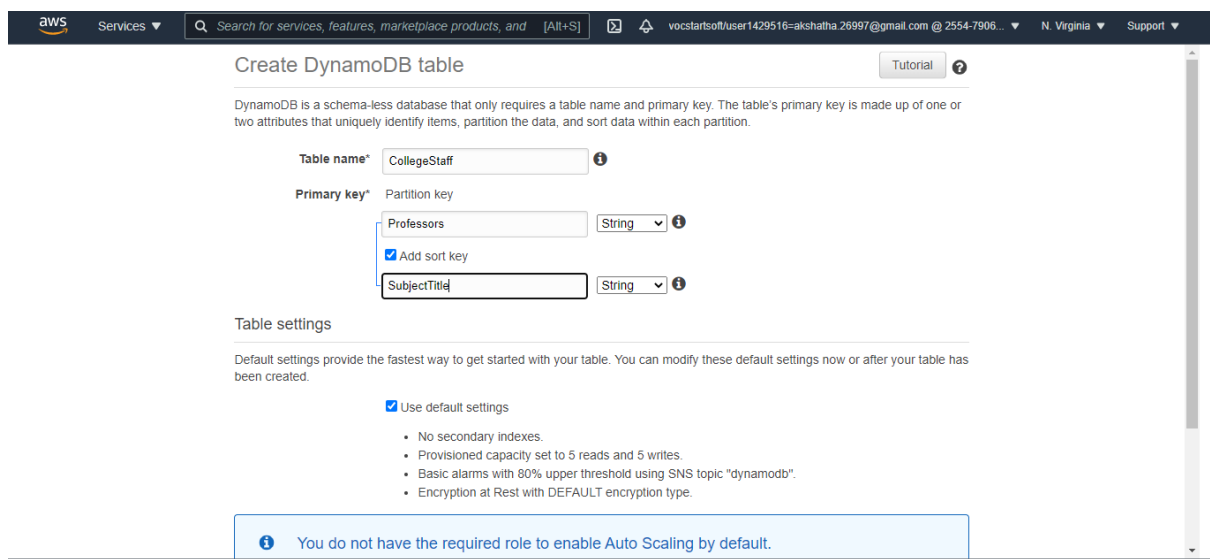


## **Assignment 4: Launch DynamoDB, perform create, insert, update and delete table. After insertion export the DynamoDB data to S3 and download the exported JSON file.**

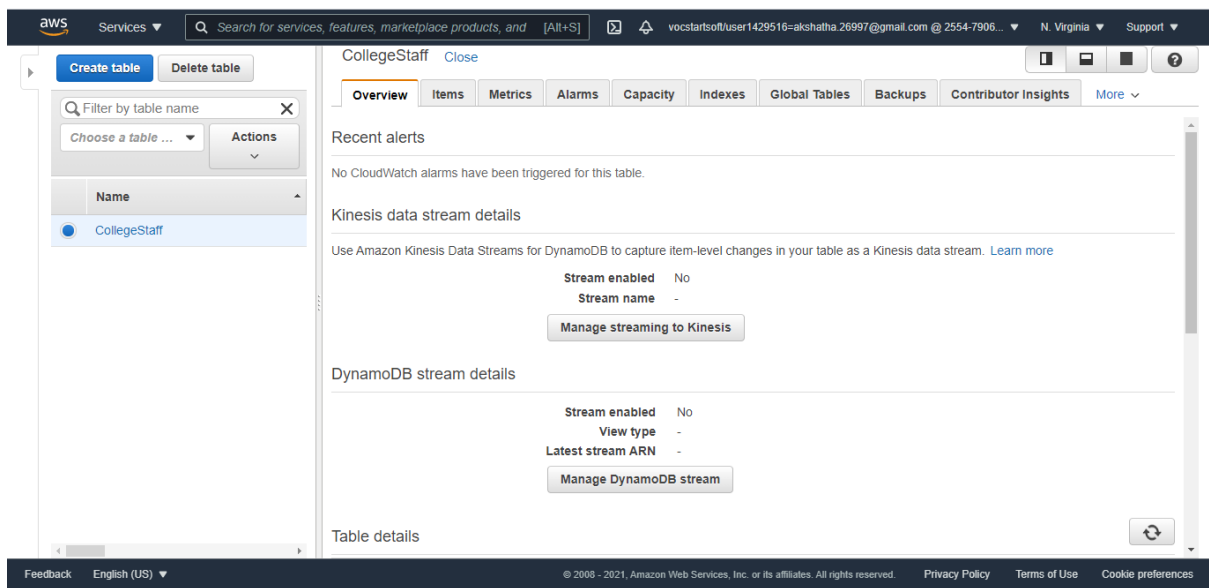
1. Navigate to the “Amazon DynamoDB” and click on “Create Table”



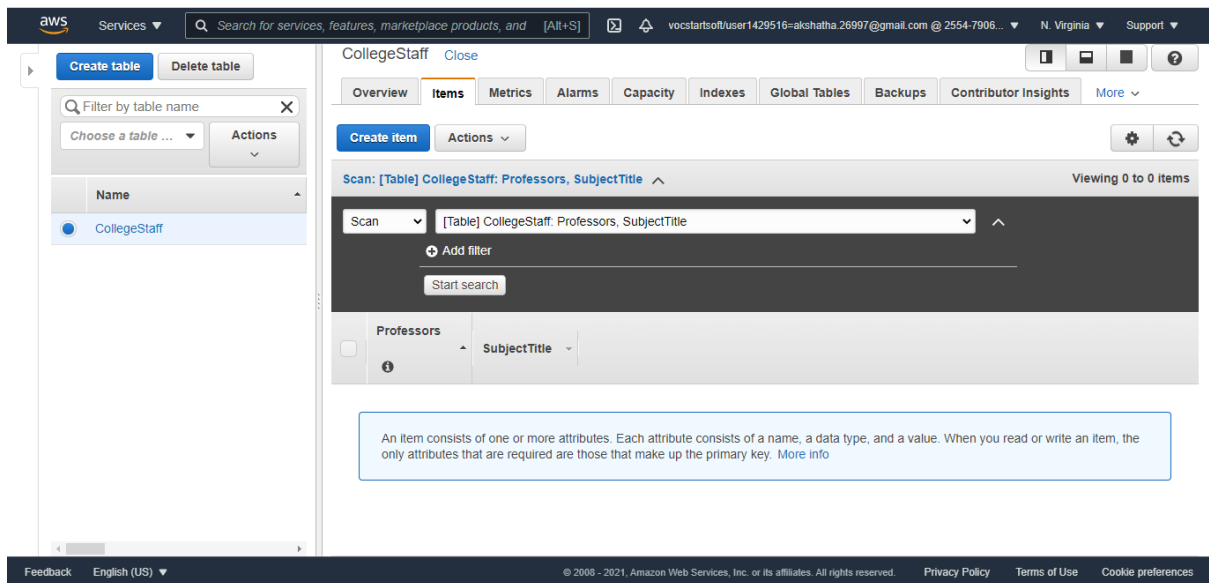
2. The following values are used for :  
Table name - CollegeStaff  
Primary Key - Professors  
Sort Key - SubjectTitle



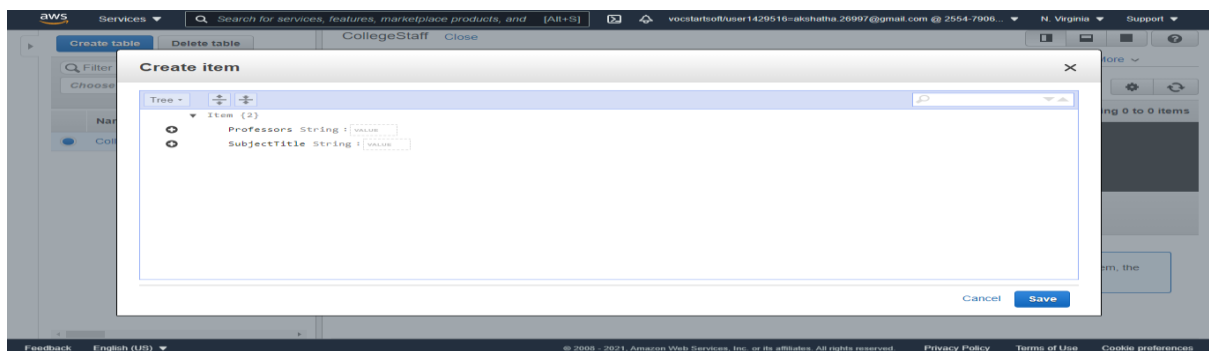
3. Table is successfully created and can be seen in the console.

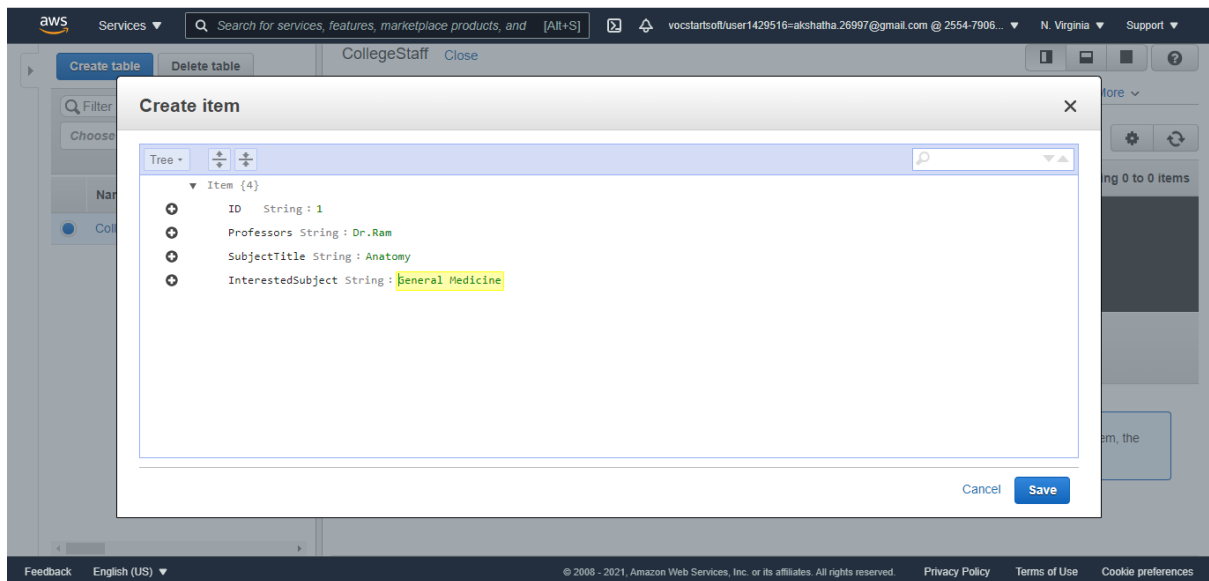


4. Navigate to the "Items" tab , and select "Create Item"

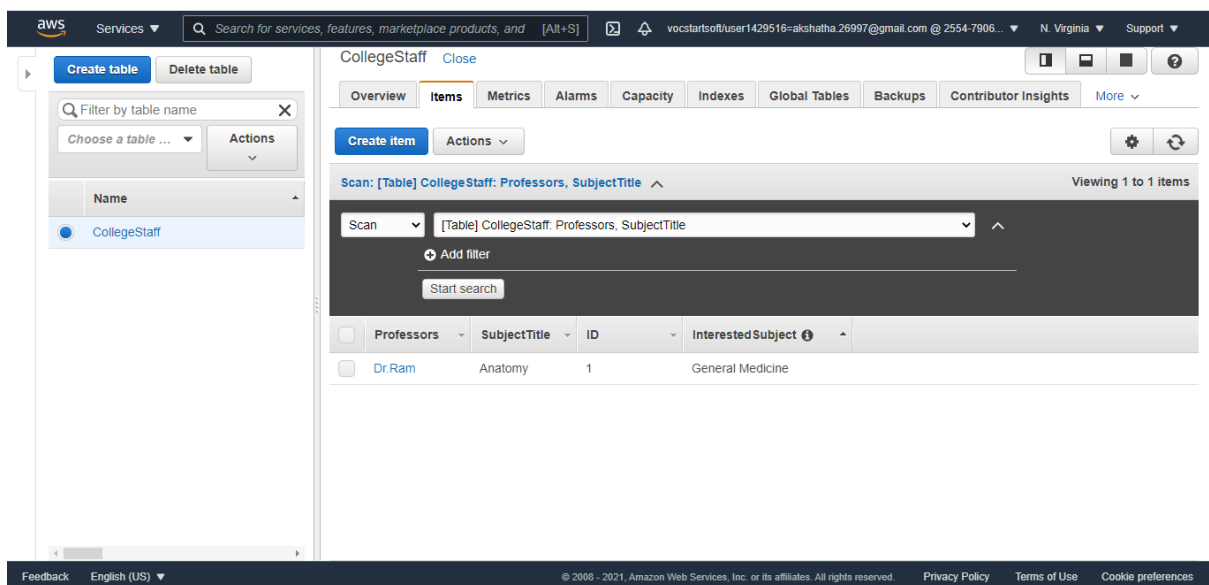


5. By default, Professors and SubjectTitle is shown in the window. Other attributes can be added as shown.

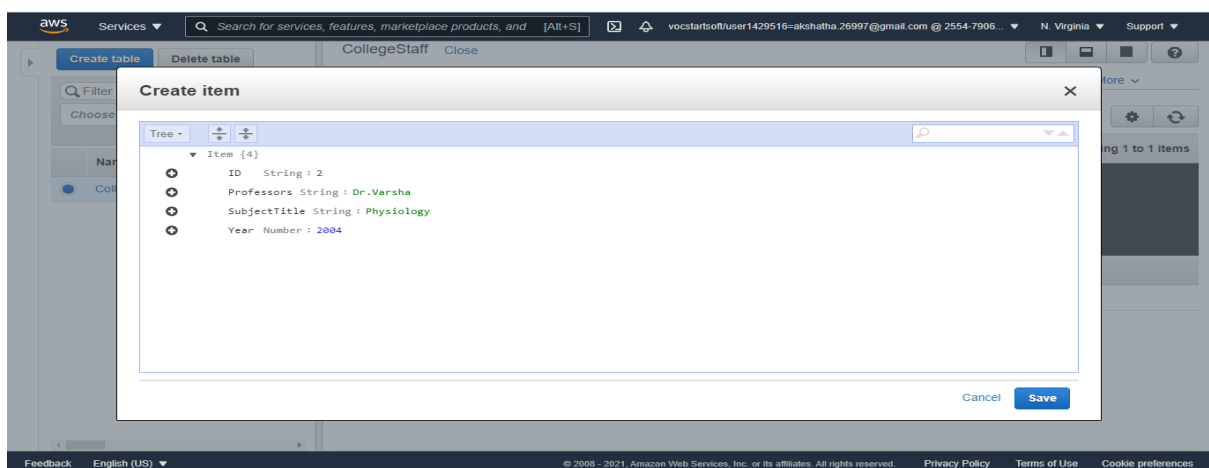


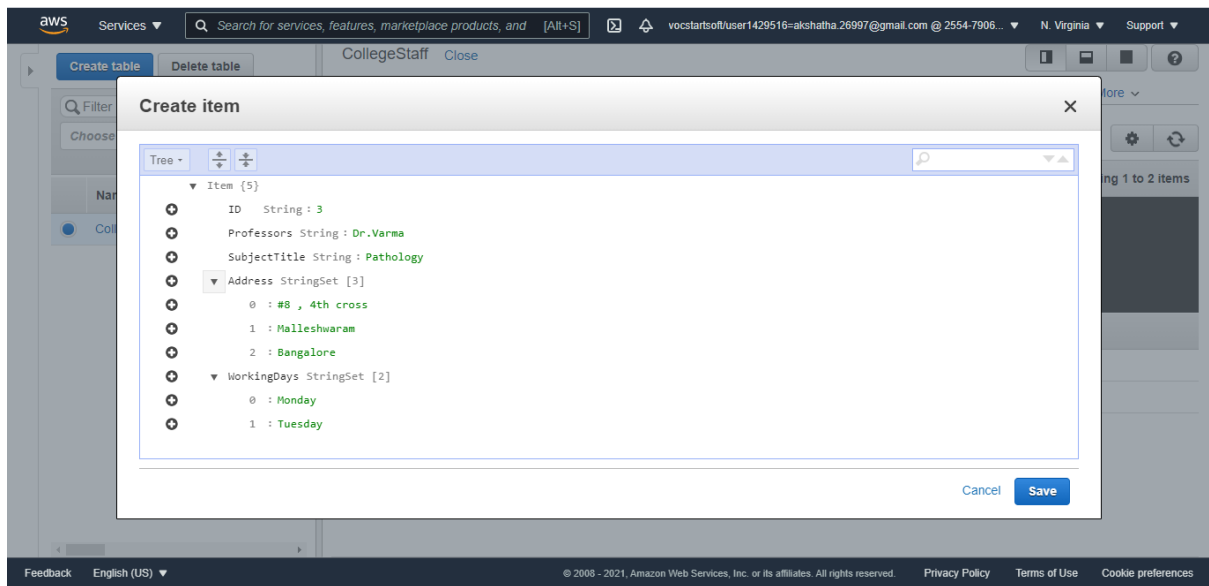


6. One item is added to the table.

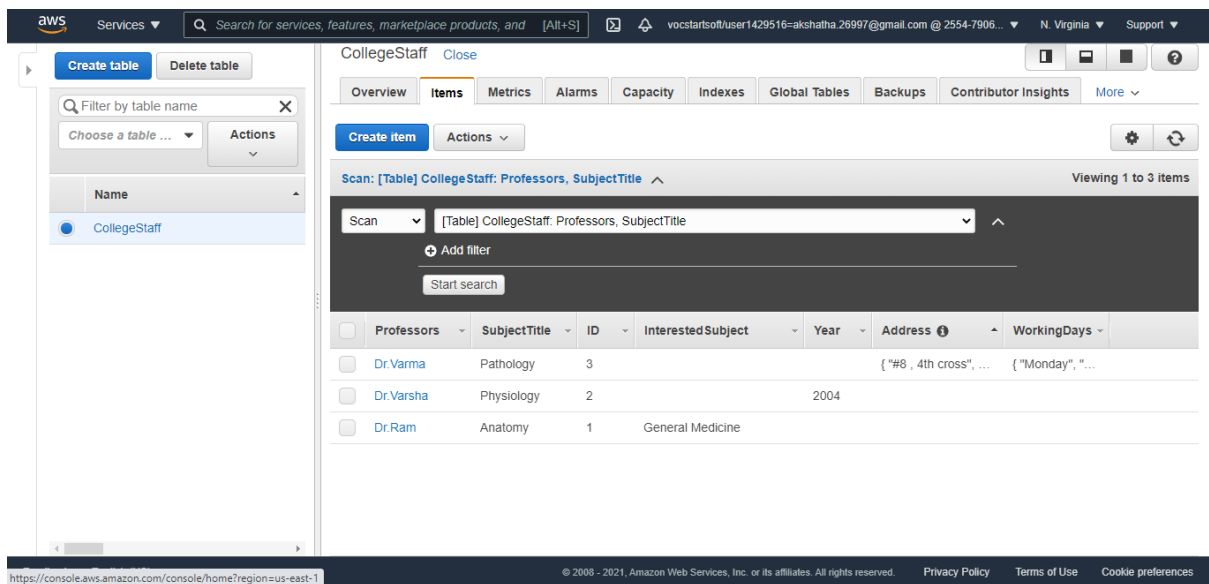


7. Similarly two more items are added to the table as shown.

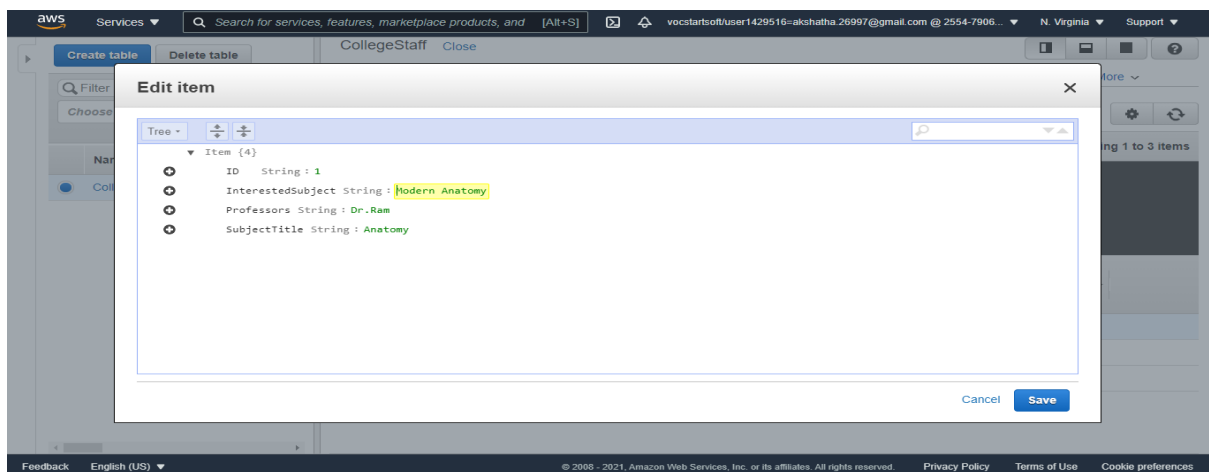




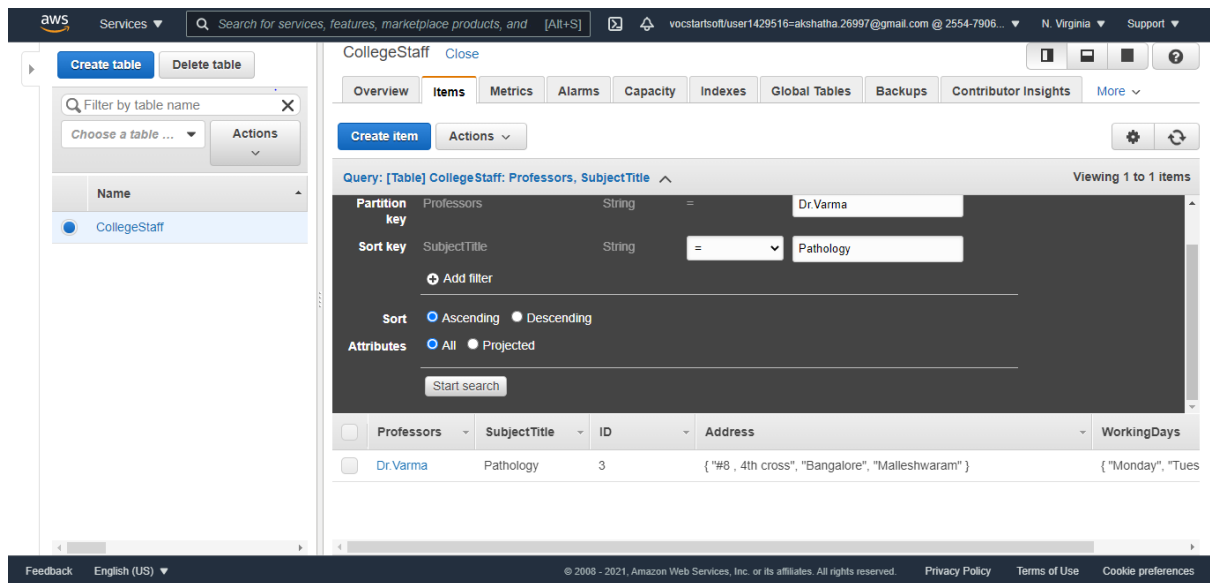
8. 3 items are added to the table.



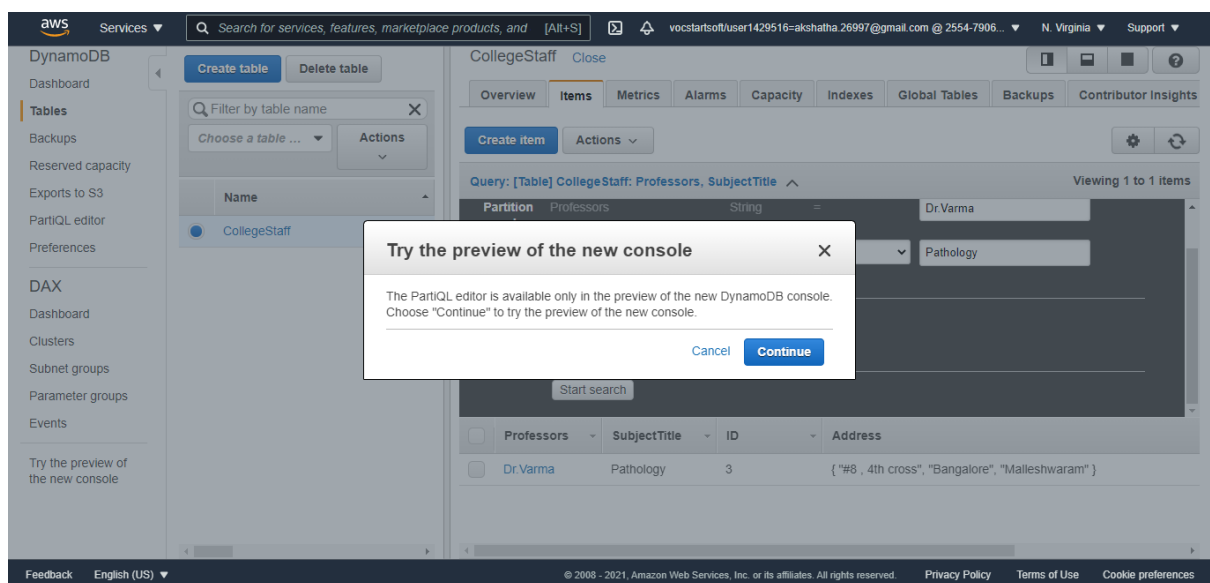
9. An item can be edited , by selecting the item as shown:



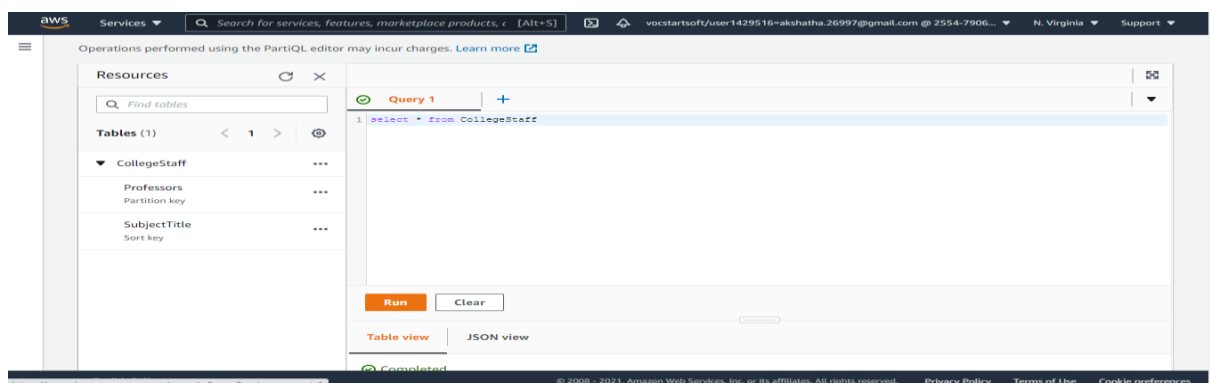
10. To Query data in the table, choose query in the dropdown and give the appropriate values for Partition key and sort key.



11. Click on PartiQL editor.



12. We can write any query in the query editor window.



13. We can view the items returned in table view :

The screenshot shows the AWS console interface. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. Below this, a sidebar on the left contains a menu. The main content area displays a 'Table view' of items returned by a query. It includes a 'Run' button, a 'Clear' button, and a 'JSON view' tab. A status bar indicates 'Completed' with a green checkmark, 'Started on 5/30/2021, 7:22:28 PM', and 'Elapsed time 413ms'. Below this, there's a section titled 'Items returned (3)' with a 'Download results to CSV' button. A search bar labeled 'Find items' is present. The table has columns: SubjectT..., ID, Professors, Year, Address, Working..., Interested..., and a search icon. The data rows are:

SubjectT...	ID	Professors	Year	Address	Working...	Interested...
Physiology	2	Dr.Varsha	2004			
Pathology	3	Dr.Varma		{ "#8 , 4th cr...	{ "Monday", "...	
Anatomy	1	Dr.Ram				Modern Anat...

We can also view the items returned in JSON view.

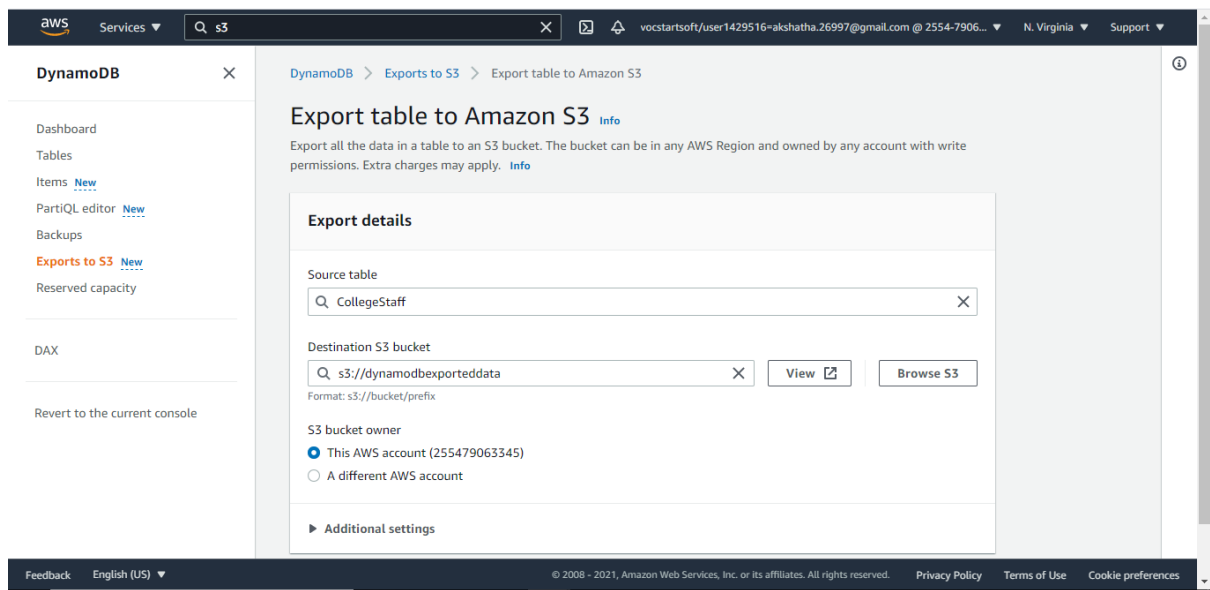
The screenshot shows the AWS console interface with the 'JSON view' tab selected. It displays the JSON output of the query. The structure is as follows:

```
{
  "Items": [
    {
      "SubjectTitle": {
        "S": "Physiology"
      },
      "ID": {
        "S": "2"
      },
      "Professors": {
        "S": "Dr.Varsha"
      },
      "Year": {
        "N": "2004"
      }
    },
    {
      "Address": {
        "SS": [
          {
            "0": "#8 , 4th cross"
          },
          {
            "1": "Bangalore"
          },
          {
            "2": "Malleshwaram"
          }
        ]
      }
    }
  ]
}
```

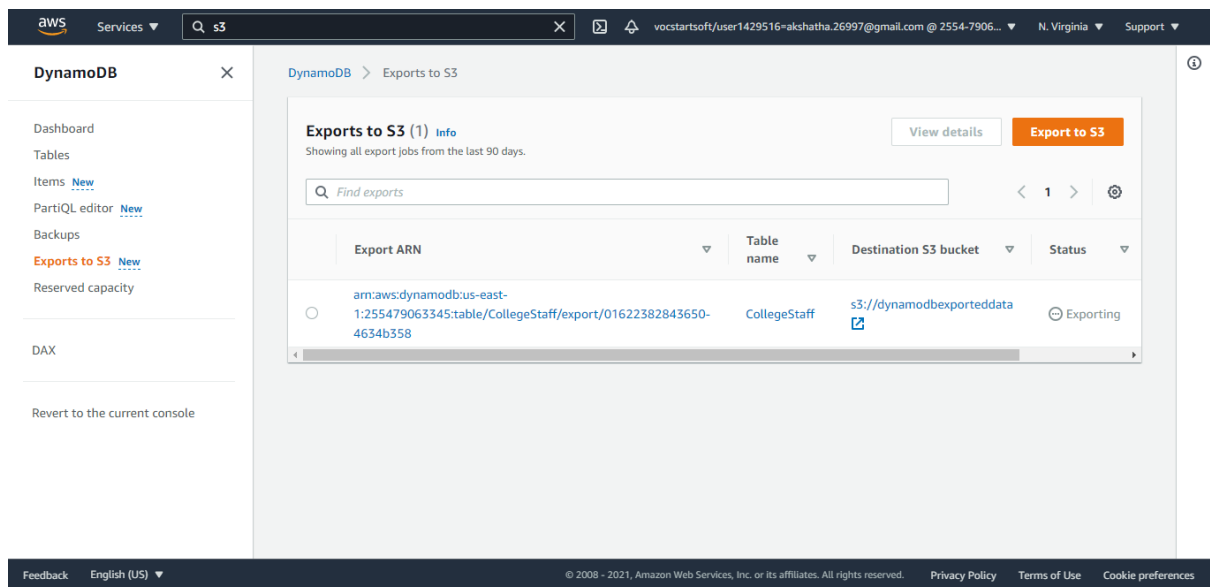
14. To export the data to S3 bucket , click on “Export to S3”

The screenshot shows the AWS console interface for the 'Exports to S3' page in DynamoDB. The left sidebar contains a menu with 'Dashboard', 'Tables', 'Items', ' PartiQL editor', 'Backups', 'Exports to S3', 'Reserved capacity', 'DAX', and 'Revert to the current console'. The main content area displays the 'Exports to S3' page with a 'View details' button and an 'Export to S3' button. A search bar labeled 'Find exports' is present. Below this, there's a table with columns: Export ARN, Table name, Destination S3 bucket, Status, and Start time (UTC+05:30). The table is currently empty, showing 'No exports'. An 'Export to S3' button is located at the bottom of the table.

15. Select the source table and browse for the destination bucket.



16. The status is shown as “Exporting”. Once the process is completed , the status will be changed to “completed”



17. Go to the S3 console and click on the destination bucket.

The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation options like Buckets, Access Points, Object Lambda Access Points, Batch Operations, Access analyzer for S3, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area displays the 'dynamodbexporteddata' bucket. The 'Objects' tab is selected, showing a list of objects. The table has columns: Name, Type, Last modified, Size, and Storage class. One object is listed: 'AWSDynamoDB/' (Folder). Above the table, there are buttons for 'Copy URL', 'Open', 'Download', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar is also present.

18. Go Inside all the sub folders until you find a folder called "data"

The screenshot shows the Amazon S3 console interface, now displaying the 'AWSDynamoDB/' folder. The 'Objects' tab is selected, showing a list of objects. The table has columns: Name, Type, Last modified, Size, and Storage class. One object is listed: '01622382843650-4634b358/' (Folder). Above the table, there are buttons for 'Copy URL', 'Open', 'Download', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar is also present.

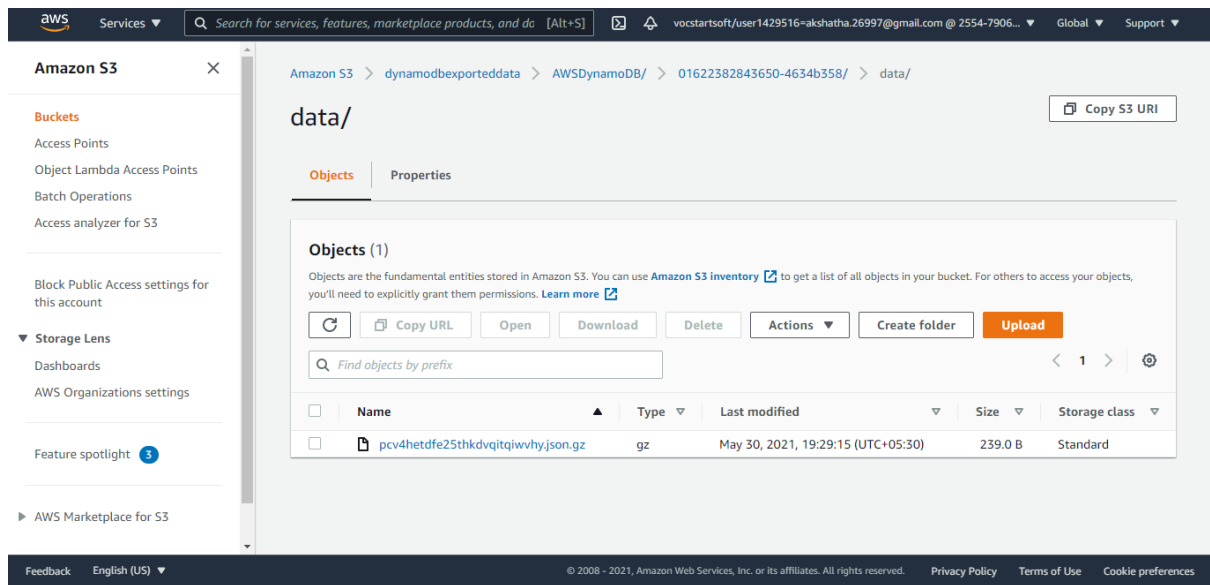
The screenshot shows the Amazon S3 console interface, now displaying the '01622382843650-4634b358/' folder. The 'Objects' tab is selected, showing a list of objects. The table has columns: Name, Type, Last modified, Size, and Storage class. Six objects are listed:

Name	Type	Last modified	Size	Storage class
manifest-summary.md5	md5	May 30, 2021, 19:29:46 (UTC+05:30)	24.0 B	Standard
manifest-summary.json	json	May 30, 2021, 19:29:46 (UTC+05:30)	606.0 B	Standard
manifest-files.md5	md5	May 30, 2021, 19:29:46 (UTC+05:30)	24.0 B	Standard
manifest-files.json	json	May 30, 2021, 19:29:46 (UTC+05:30)	195.0 B	Standard
data/	Folder	-	-	-
_started	-	May 30, 2021, 19:24:16 (UTC+05:30)	0 B	Standard

Above the table, there are buttons for 'Copy URL', 'Open', 'Download', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar is also present.



19. The data of table will be in zip format. Download the zip folder and extract the JSON file. The data of the table can be viewed as shown.



The JSON file:



Submitted By,

Akshatha.L