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SEMESTER: ODD SEMESTER 5

COURSE: Advance DevOPs (ITL504)

DATE: 12-08-2022

EXPERIMENT 4

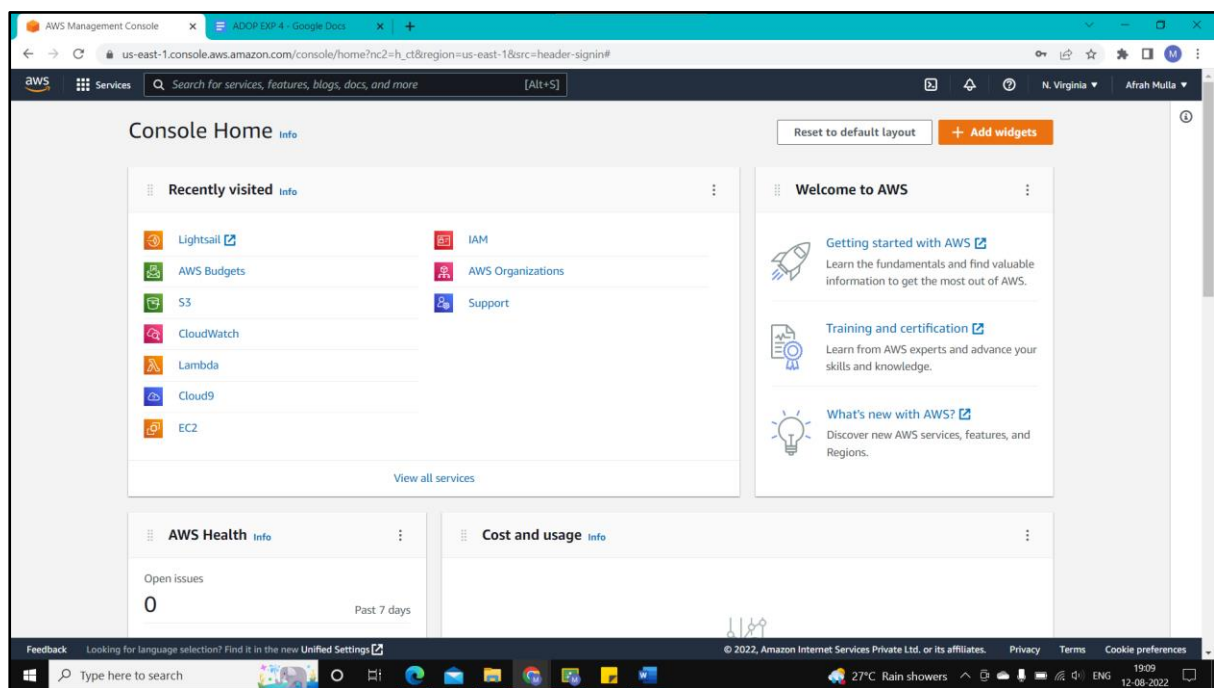
Q1. What is NoSQL, key value Databases?

NoSQL databases (aka "not only SQL") are non-tabular databases and store data differently than relational tables. NoSQL databases come in a variety of types based on their data model. The main types are document, key-value, wide-column, and graph. They provide flexible schemas and scale easily with large amounts of data and high user loads.

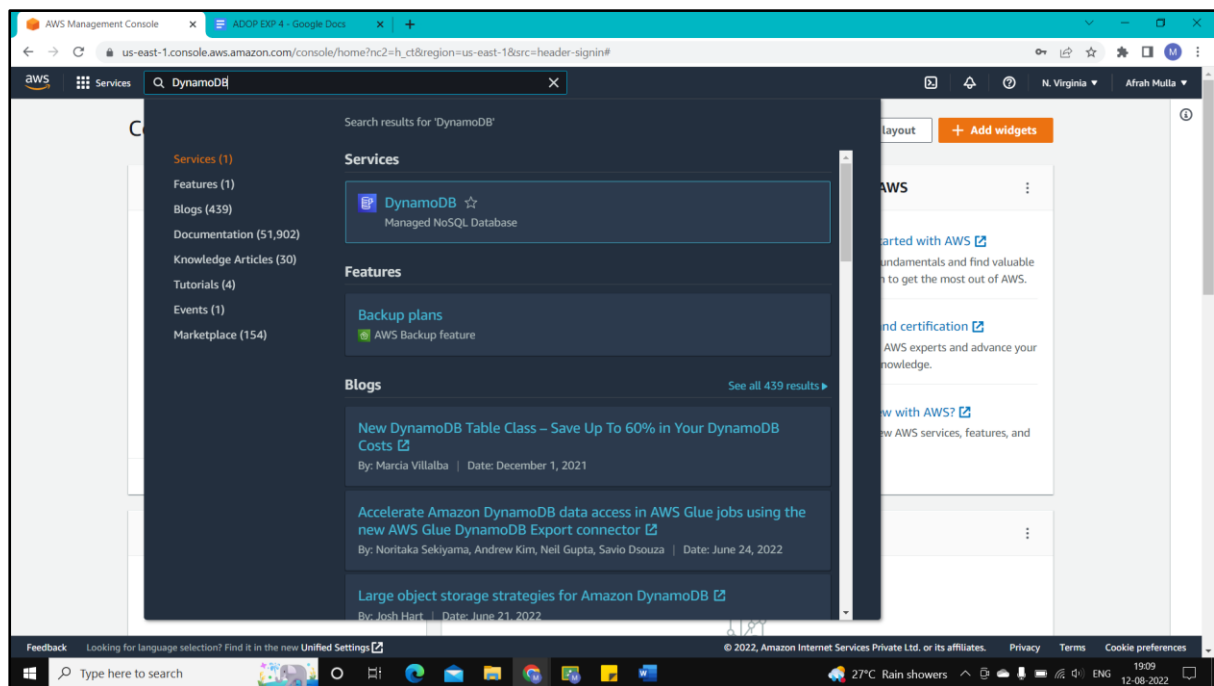
NoSQL key-value databases are the least complicated types of NoSQL databases. Key-value databases are a simpler type of database where each item contains keys and values.

Q2. Create a Table in DynamoDB. Add items to the table (minimum 10 items), Query the table.

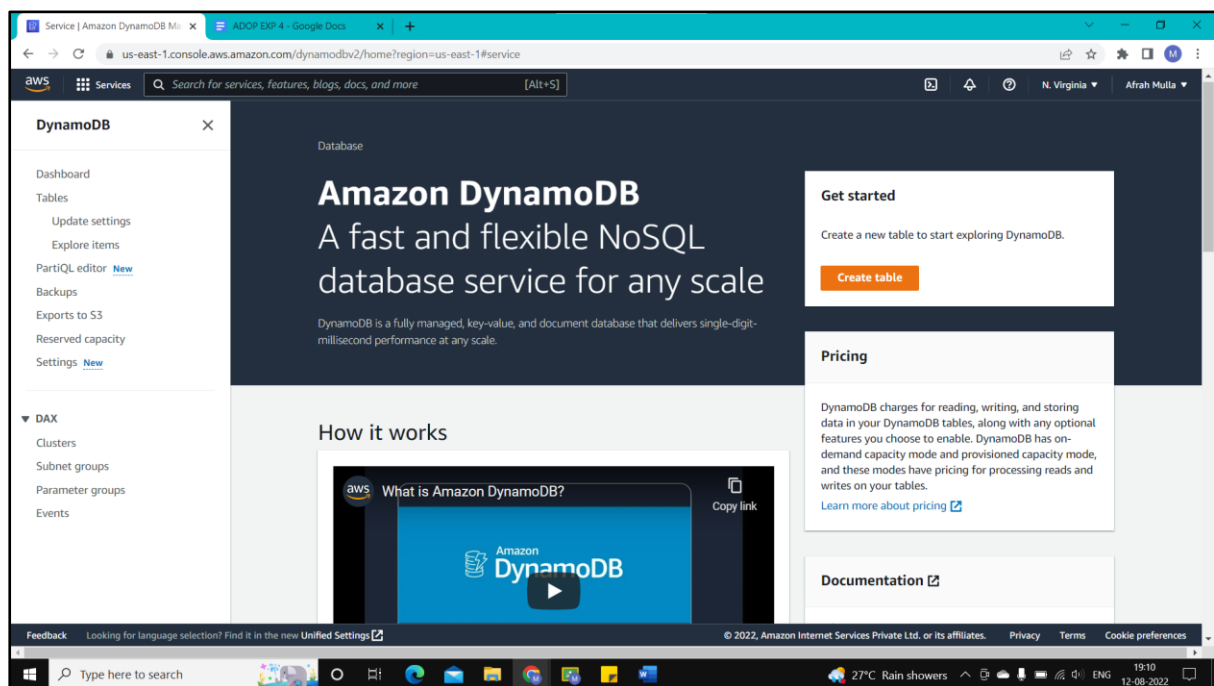
Step 1: AWS Management Console Dashboard



Step 2: Search for DynamoDB and select it



Step 3: Click on 'Create Table'



Step 4: Name your table -> set 'Partition key' & 'Sort key' -> select Default setting -> Click on Create Table

The screenshot shows the 'Create table' page in the AWS Management Console. The 'Table details' section is active, showing the following fields:

- Table name:** A text input field containing 'Student_Table'. Below it, a note states: 'Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.)'.
- Partition key:** A text input field containing 'Student_ID' and a dropdown menu set to 'Number'. A note below states: '1 to 255 characters and case sensitive'.
- Sort key - optional:** A text input field containing 'Student_Name' and a dropdown menu set to 'String'. A note below states: '1 to 255 characters and case sensitive'.

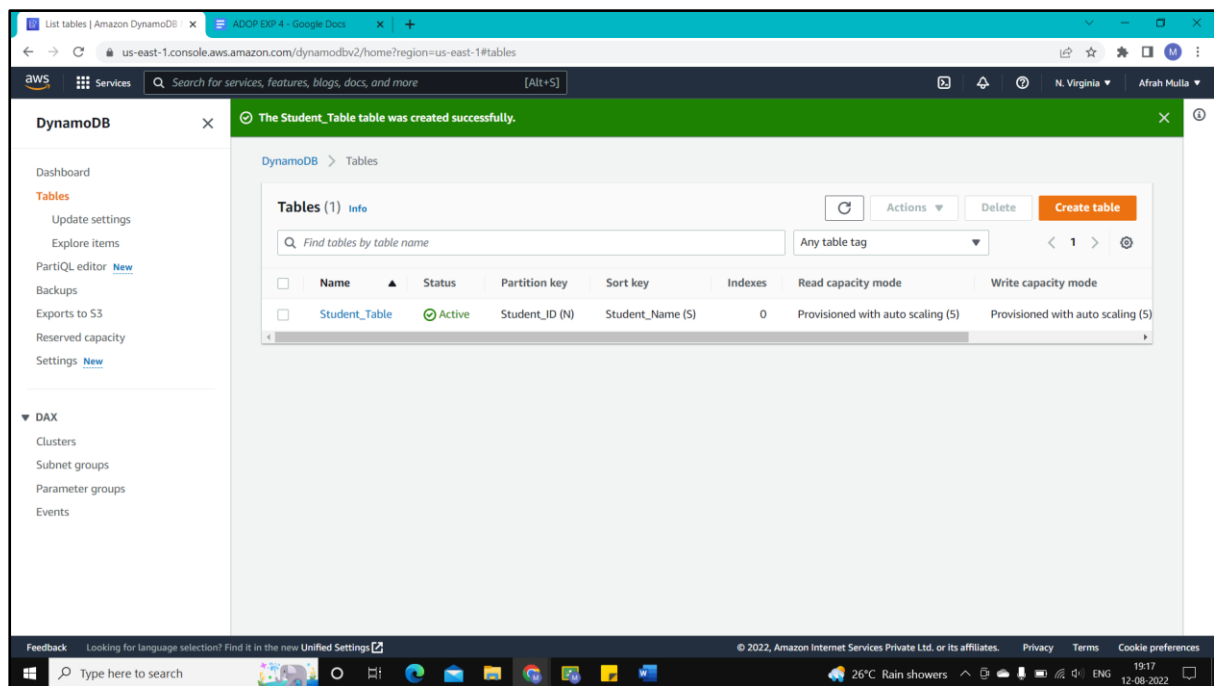
Below the 'Table details' section, the 'Table settings' section is partially visible. The browser's taskbar at the bottom shows the Windows Start menu, a search bar, and various application icons. The system tray on the right indicates a temperature of 26°C, rain showers, and the date 12-08-2022.

The screenshot shows the 'Table settings' section of the 'Create table' page. It contains the following elements:

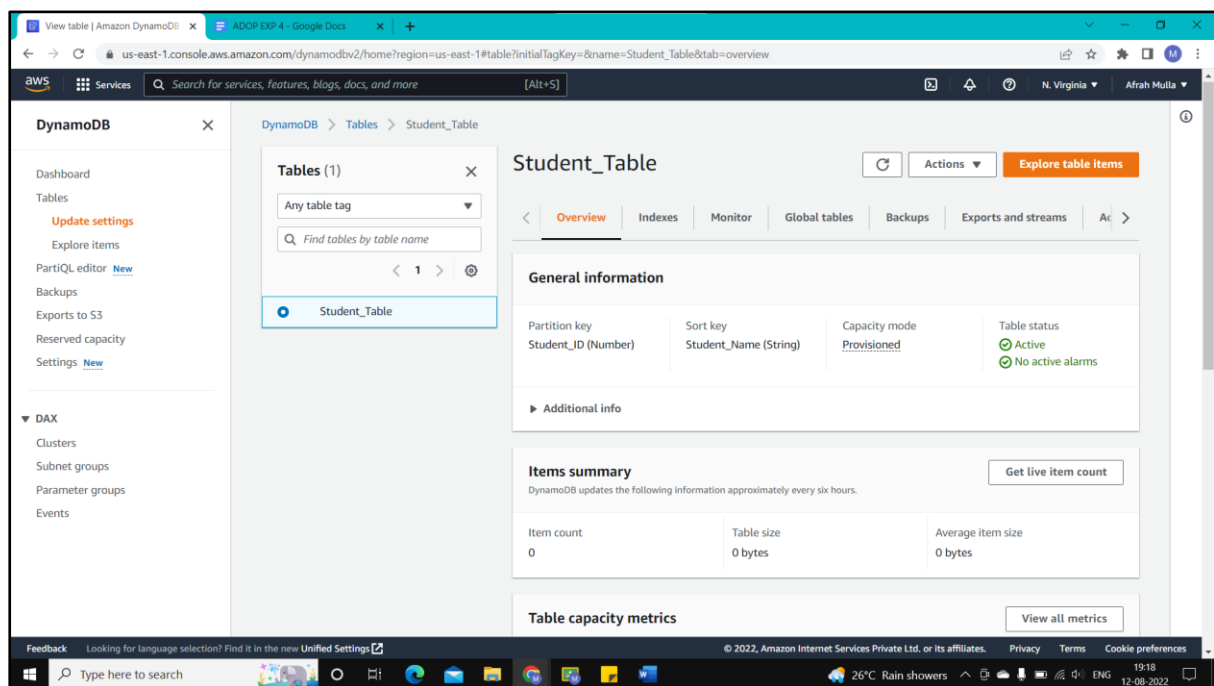
- Default settings:** A radio button that is selected. A note below it says: 'The fastest way to create your table. You can modify these settings now or after your table has been created.'
- Customize settings:** An unselected radio button. A note below it says: 'Use these advanced features to make DynamoDB work better for your needs.'
- View default table settings:** A link with a right-pointing arrow. A note below it says: 'These are the default settings for your new table. You can change some of these settings after creating the table.'
- Tags:** A section titled 'Tags' with a note: 'Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.' Below this, it states 'No tags are associated with the resource.' and includes an 'Add new tag' button with a note: 'You can add 50 more tags.'

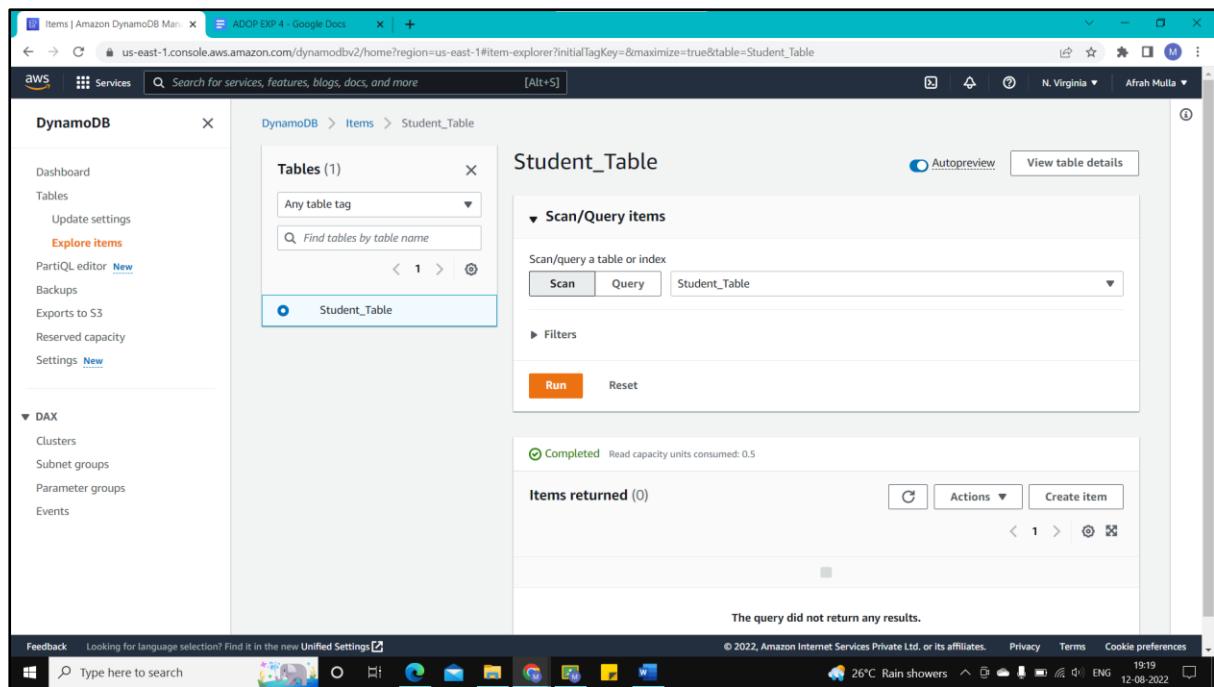
At the bottom of the form, there are two buttons: 'Cancel' and 'Create table' (which is highlighted in orange). The browser's taskbar and system tray are identical to the previous screenshot.

Step 5: Table Created Successfully! From here select the blue link



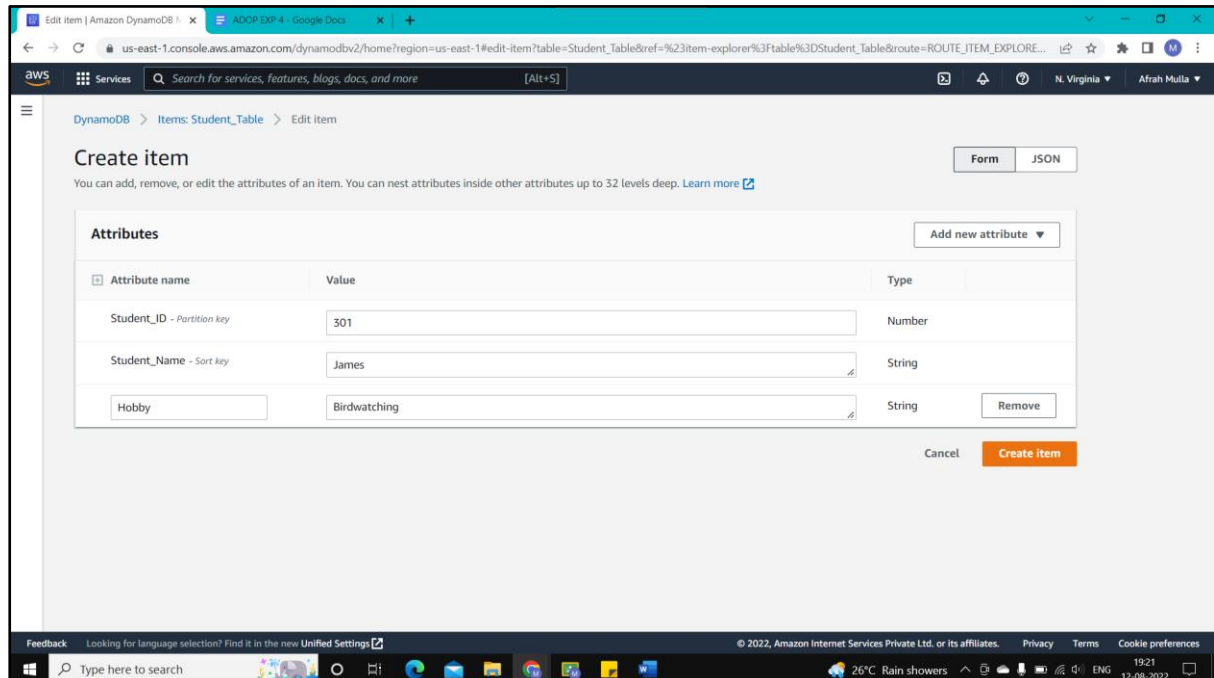
Step 6: Click on "Explore table item" -> Create item"

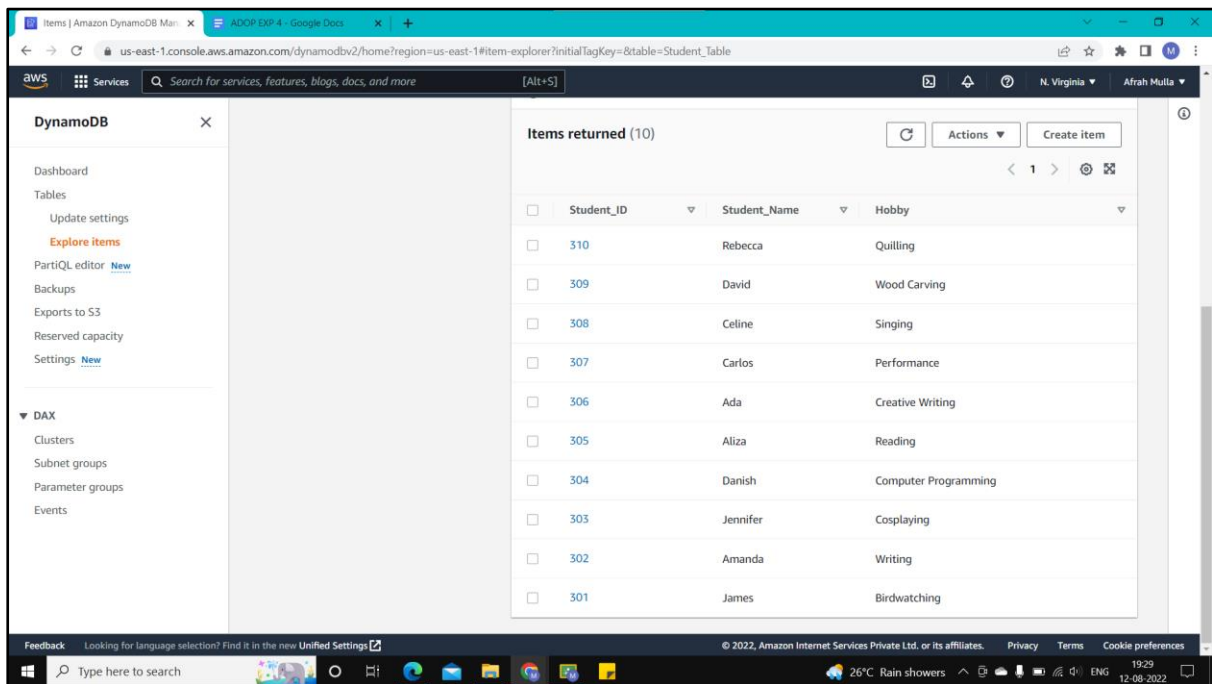
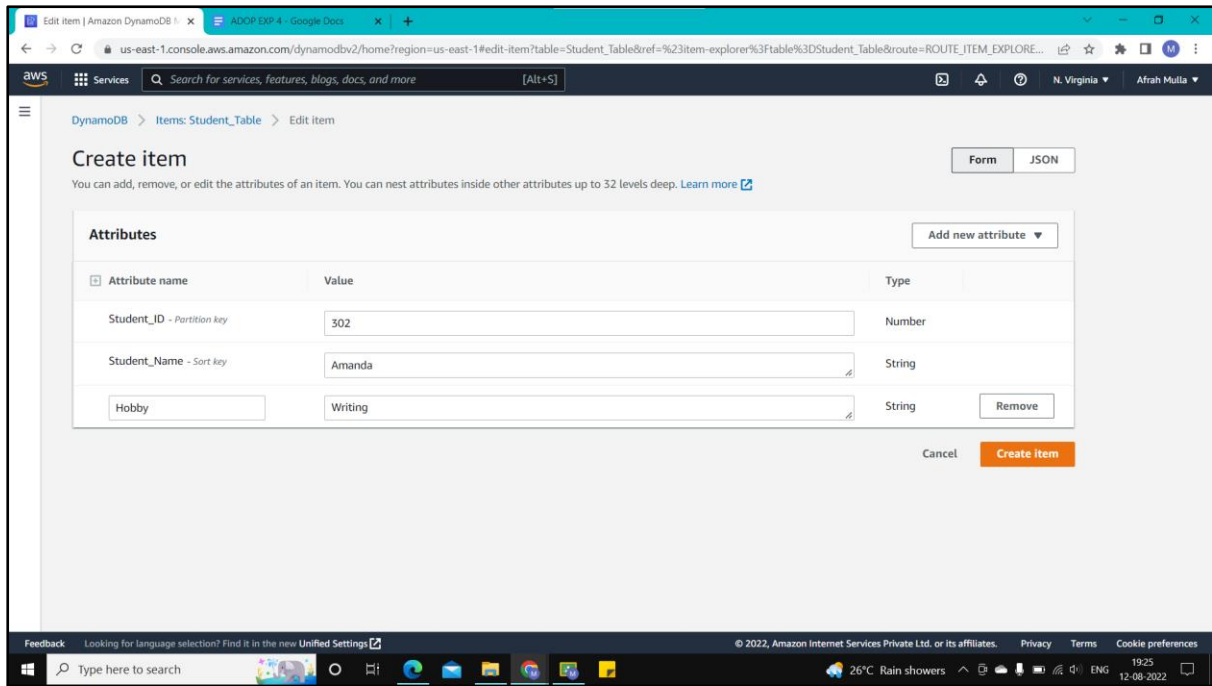




Step 7: Add new attributes if required -> Click on “Create item”

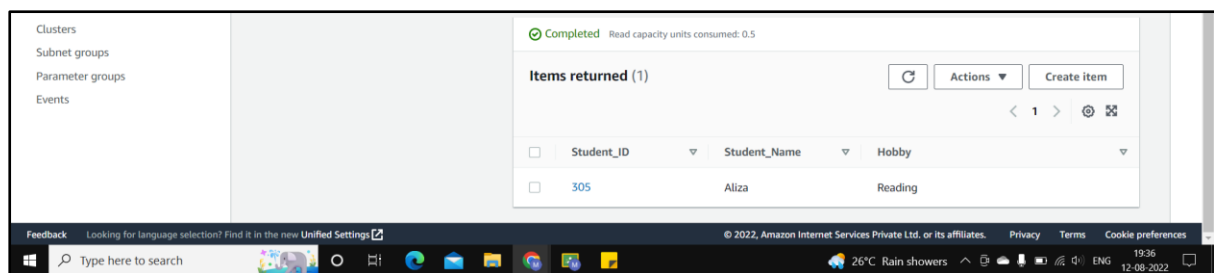
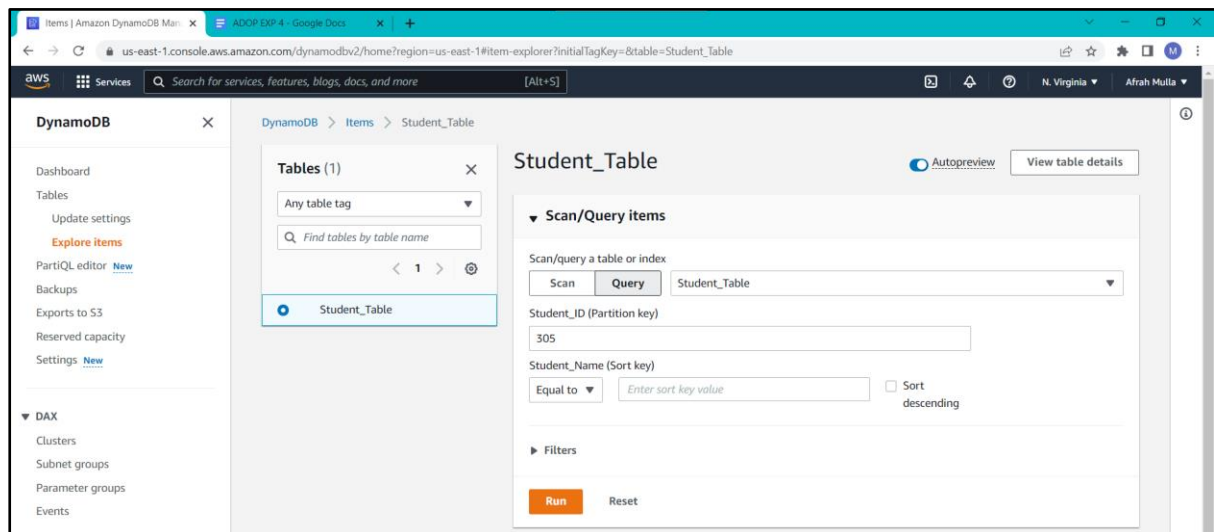
After entering each item select the “Create item” button and repeat the process until you are finished



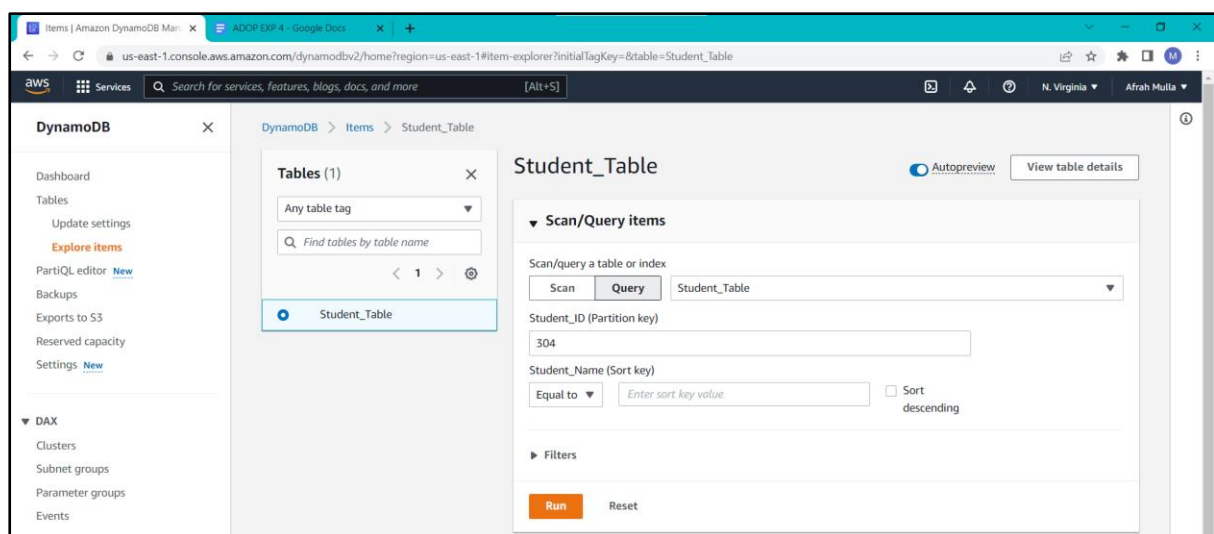


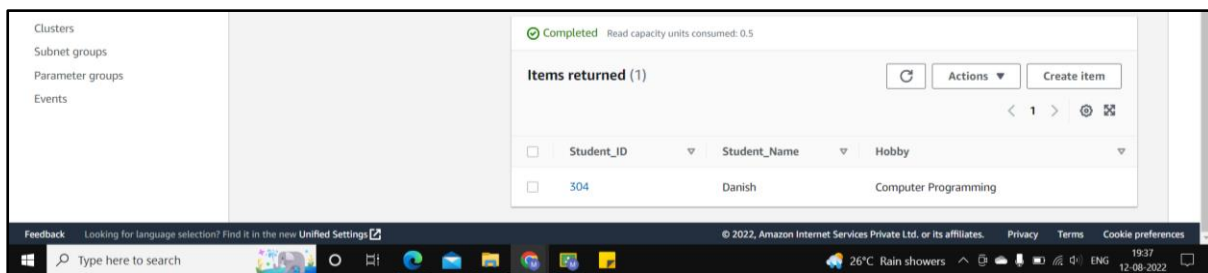
Step 8: Run query for needed items using partition key

(A)

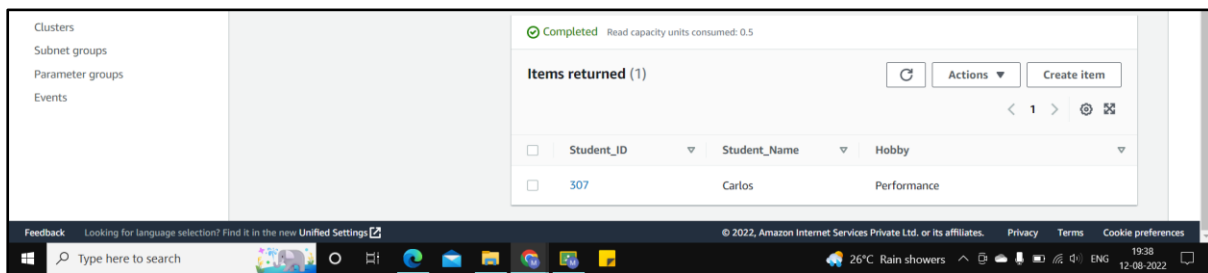
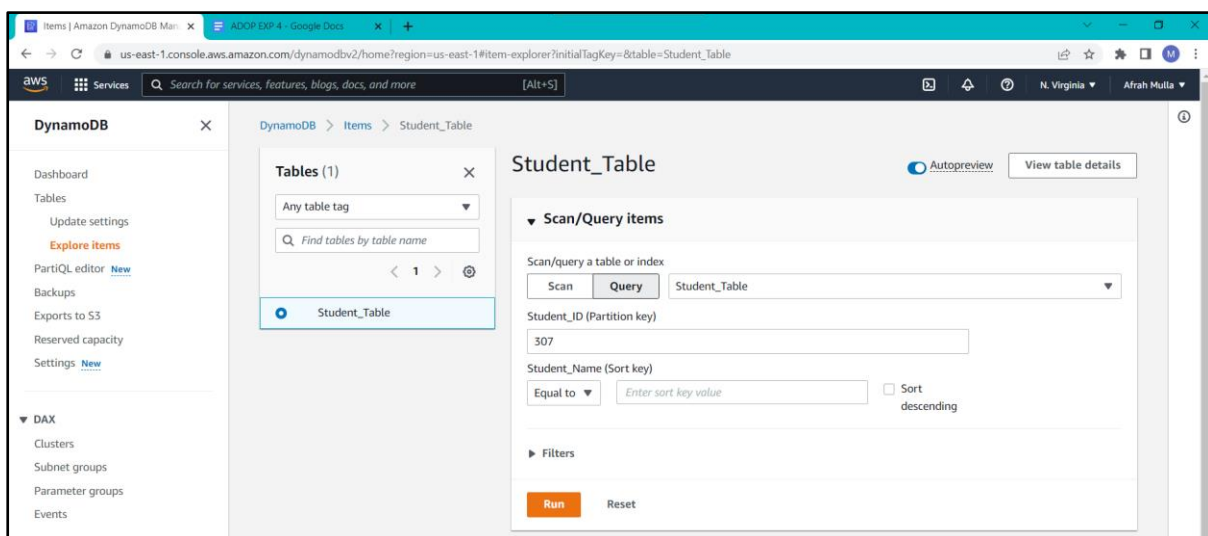


(B)

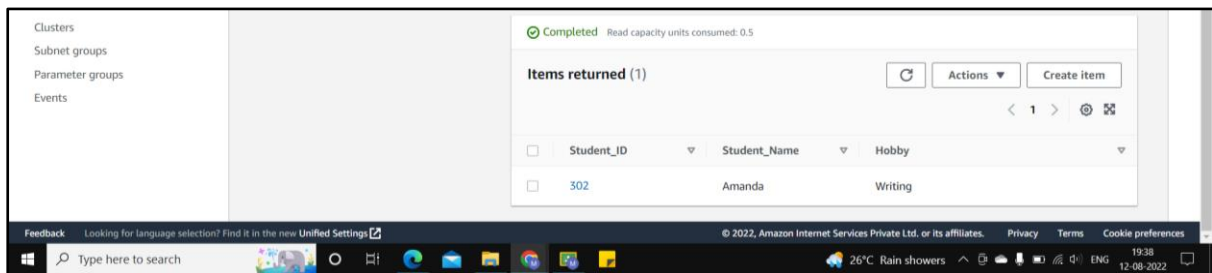
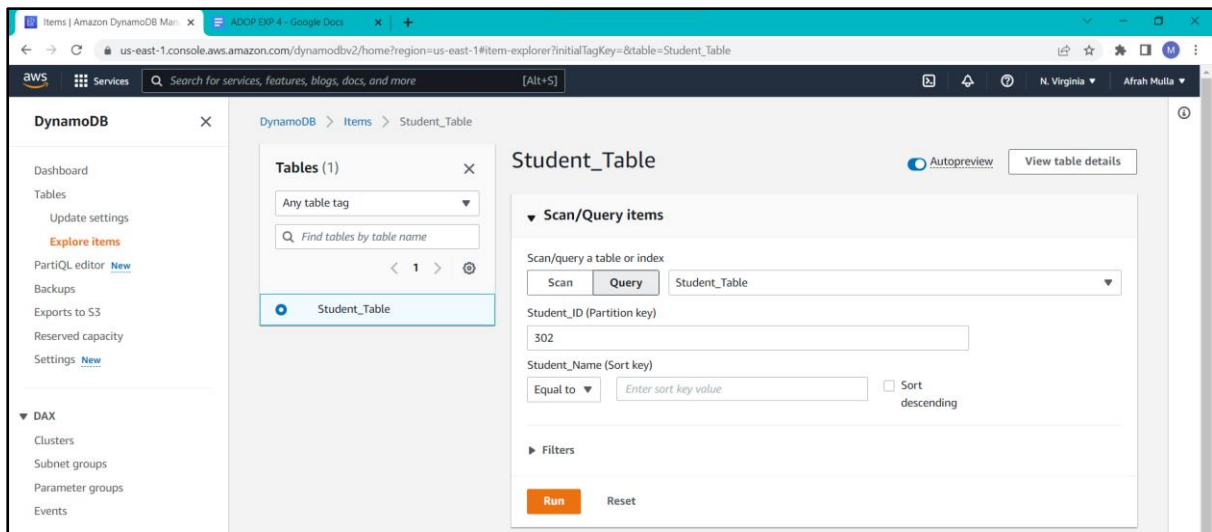




(C)



(D)



Step 9: Finally, Select the table and click on “Delete”

