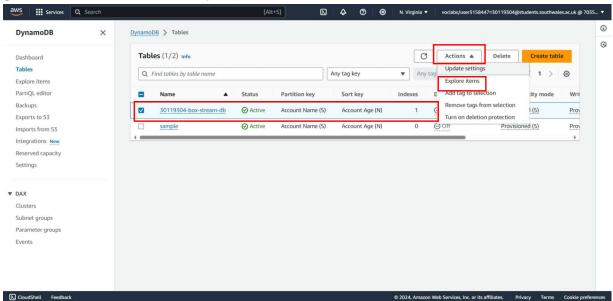
MS4S21 Student ID: 30119304

## TASK B: QUERY VALIDATION

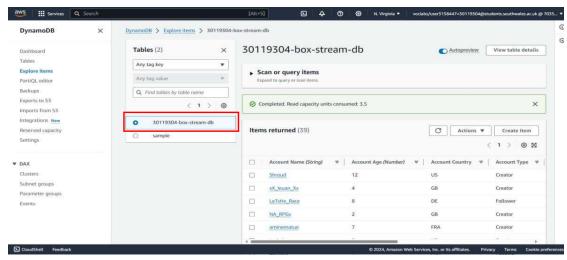
In the previous task we stored JSON data on an S3 bucket named 30119304-box-stream-bucket and generated a DynamoDB Table using the data stored on the S3 Bucket. It is now necessary to download the CSV file for every query result and upload it to your S3 bucket using the naming convention {student number}query{question number}.CSV

- 1. Go to the AWS (Amazon Web Services) Management Console and sign in to your AWS account.
- 2. Check that the **N. Virginia (us-east-1)** region's resources are currently being managed by your EC2 console. Checking the drop-down option to the left of your username at the top of the screen will allow you to confirm this. Before moving on to the following stage, select the N. Virginia region from the region selection if it is not already shown.
- 3. navigate to the DynamoDB service by clicking on "Services" in the top left corner, then selecting "DynamoDB" under the Database section or you can search in the search bar.
- **4.** Click on the "tables" in the left corner and select "30119304-box-stream-db" then go to "Action" click on the "Explore item"

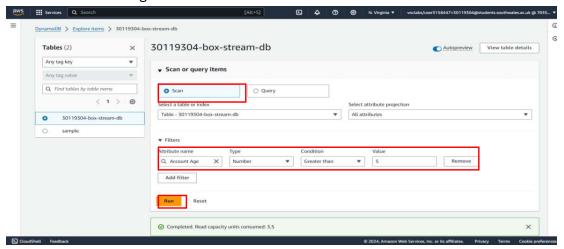


 $5. \ \ Now we are going to write Scan/query for the following conditions:$ 

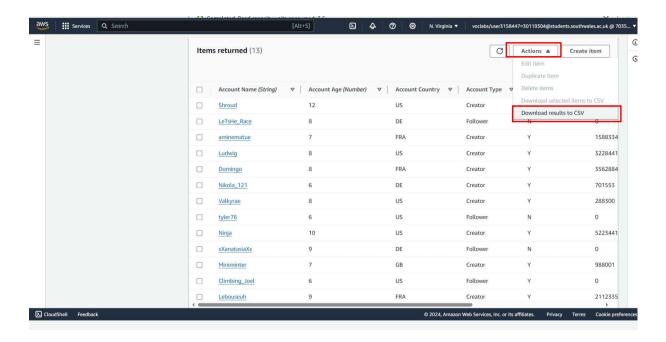
Note: Make sure that you selected 30119304-box-stream-db table.



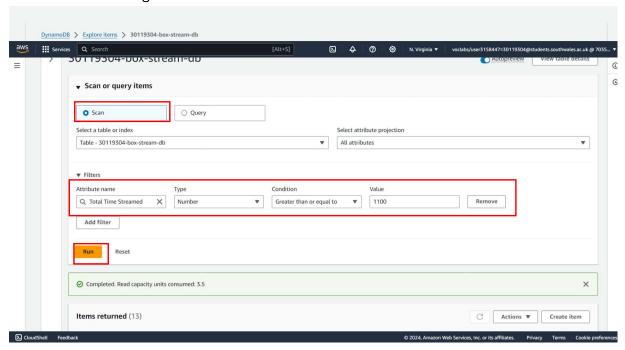
- > Return all data for accounts that are older than 5 years.
- o Follow the logic below and click on the "Run" button.



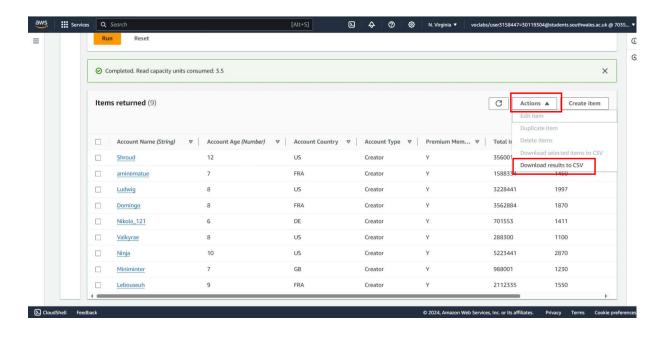
 We got the result now go to "Action" select "Download result to CSV" and rename it has 30119304query1 in your local system. MS4S21 Student ID: 30119304



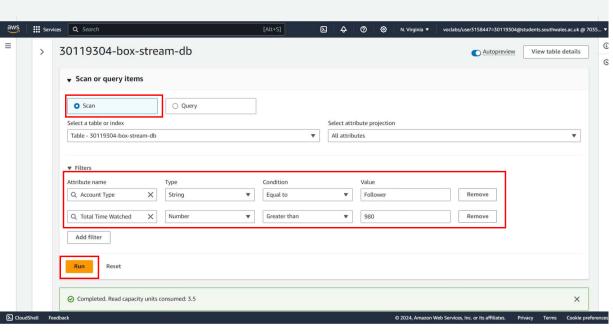
- Return only the account names for accounts that have streamed for at least 1100 hours or more.
- o Follow the logic below and click on the "Run" button.



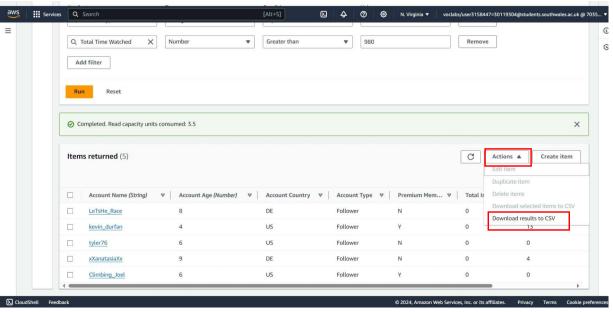
We got the result now go to "Action" select "Download result to CSV" and rename it has 30119304query2 in your local system.



- Return all data for accounts which are the follower type and have watched more than 980 hours on the platform.
- o Follow the logic below and click on the "Run" button.



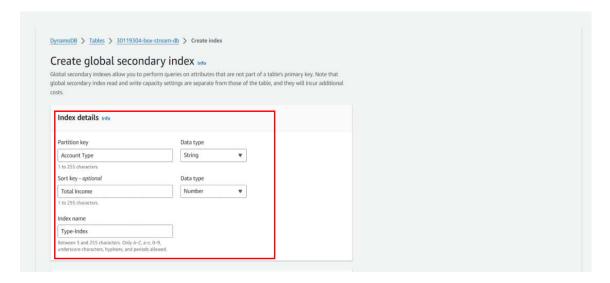
 We got the result now go to "Action" select "Download result to CSV" and rename it has 30119304query3 in your local system.



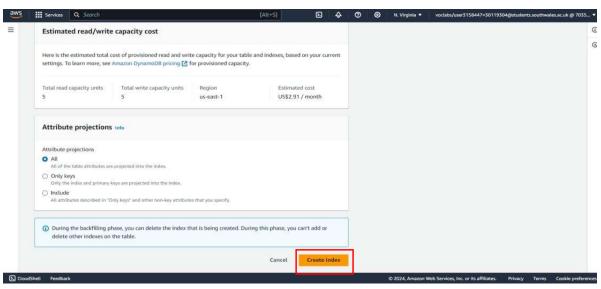
- Return the account name for the most successful creator on the platform, in terms of total income.
- For this condition we need to create Index open 30119304-box-stream-db click on Indexes
- Configure the Details:

Partition key: Account Type Data type: String Sort Key: Total Income Data Type: Number

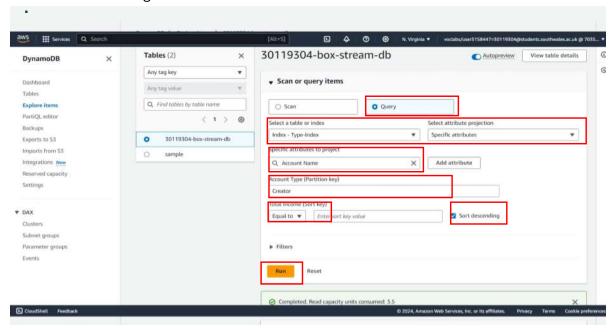
Index name: Type-Index



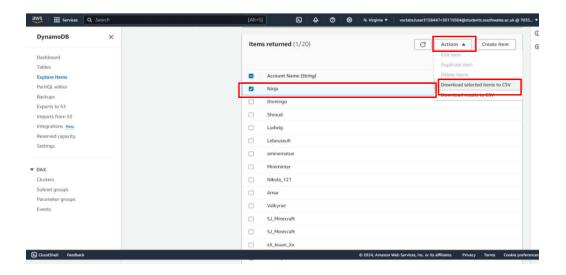
Leave other setting as default and click on "Create index" Button.



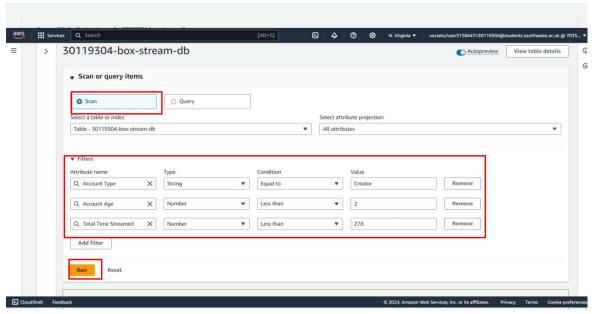
Follow the logic below and click on the "Run" button.



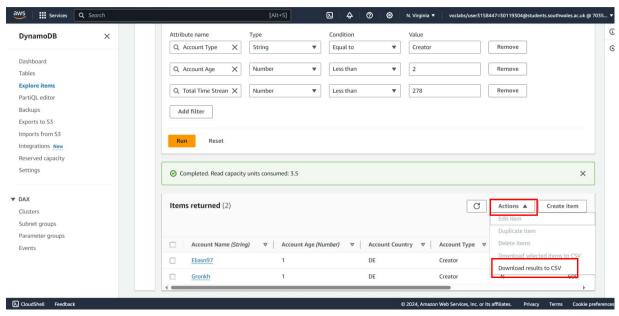
 We got the result select "ninja" click on "Action" select "Download selected items to CSV" and rename it has 30119304query4 in your local system.



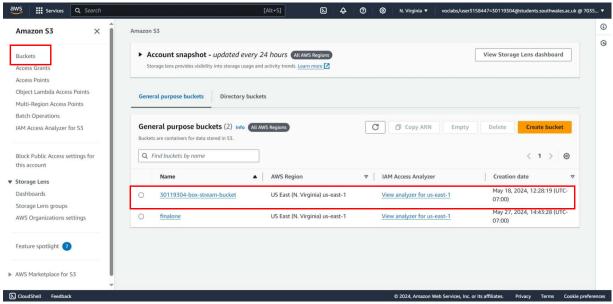
- Return the total income data for creator accounts that have streamed for less than 278 hours and have streamed for less than two years.
- o Follow the logic below and click on the "Run" button.



 We got the result now go to "Action" select "Download result to CSV" and rename it has 30119304query4 in your local system.

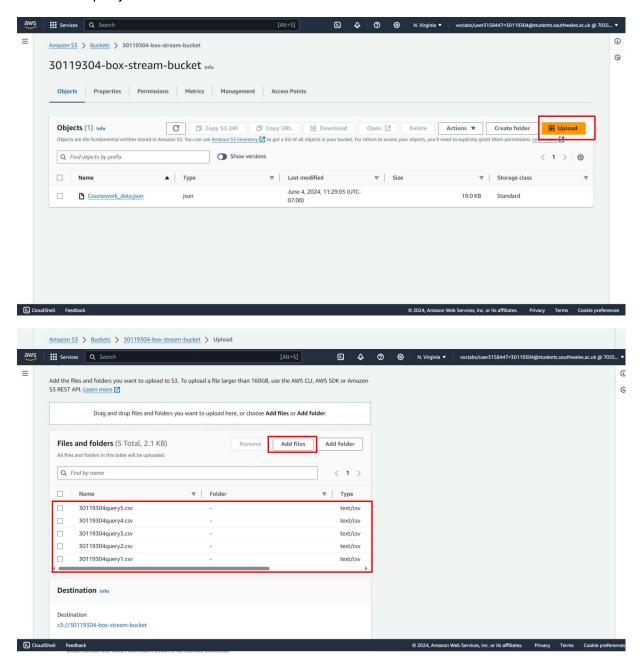


- 6. Successfully solved the all the conditions now it is time to upload Result CSV file into 30118304-box-stream-bucket
  - Navigate to "S3" click on the "Buckets" in the left corner open the "30118304-box-stream-bucket"

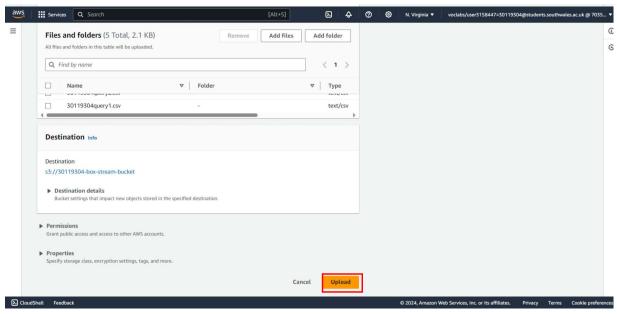


- Click on the "Upload" button and click on "Add files" select
  30119304query1.csv file
- Leave other setting as default then click on "Upload" button
- Repeat above steps to Upload other rest of the files

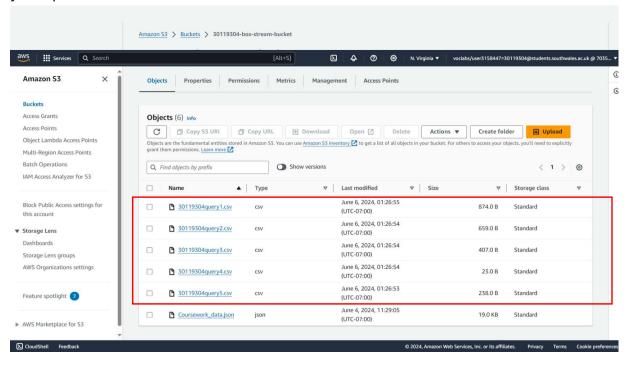
**Note:** Make sure you Uploaded all Files called as 30119304query1.csv, 30119304query2.csv, 30119304query3.csv, 30119304query4.csv, 30119304query5.csv



MS4S21 Student ID: 30119304



7. Navigate to "Buckets" open "30119304-box-stream-bucket" now you can see your uploaded file in 30119304-box-stream-bucket



**Congratulation** you solved all the conditions and successfully uploaded resulted CSV file into your bucket (30119304-box-stream-bucket)