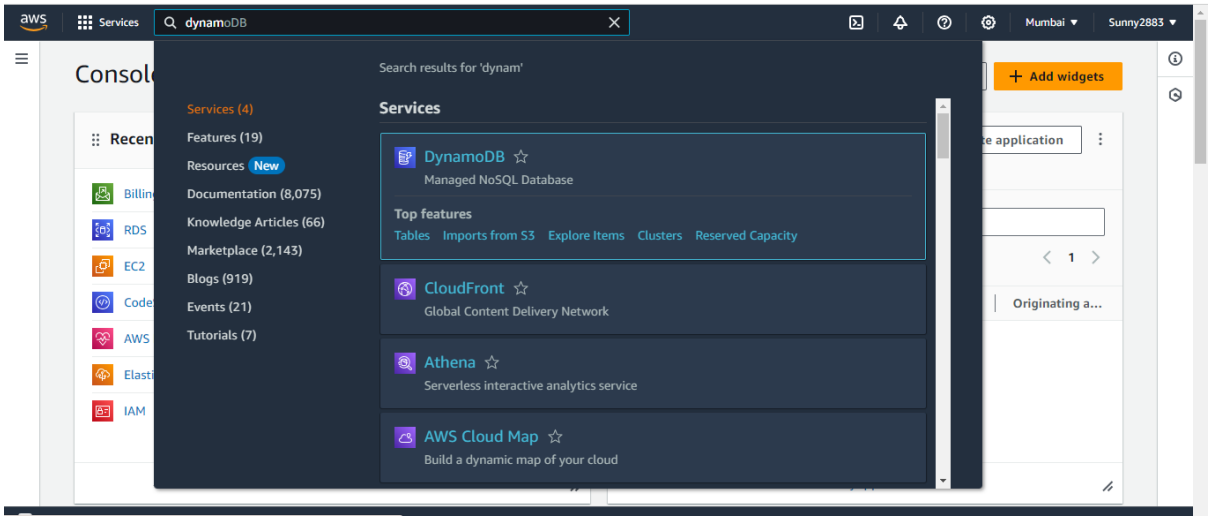
Assignment DB

Task:2

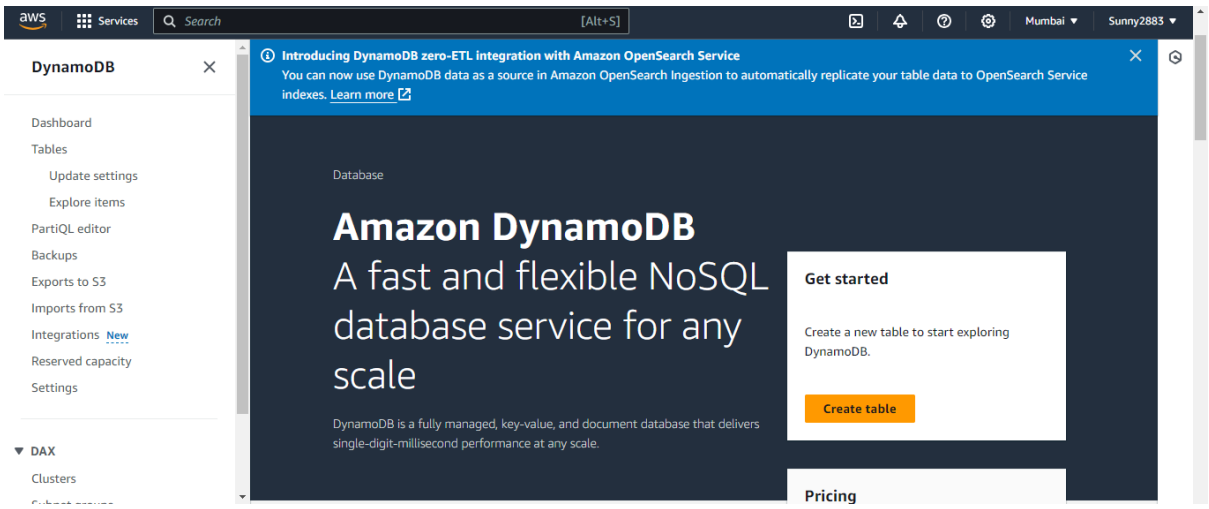
Create a DynamoDB Table:

Create a new DynamoDB table with a primary key of your choice.

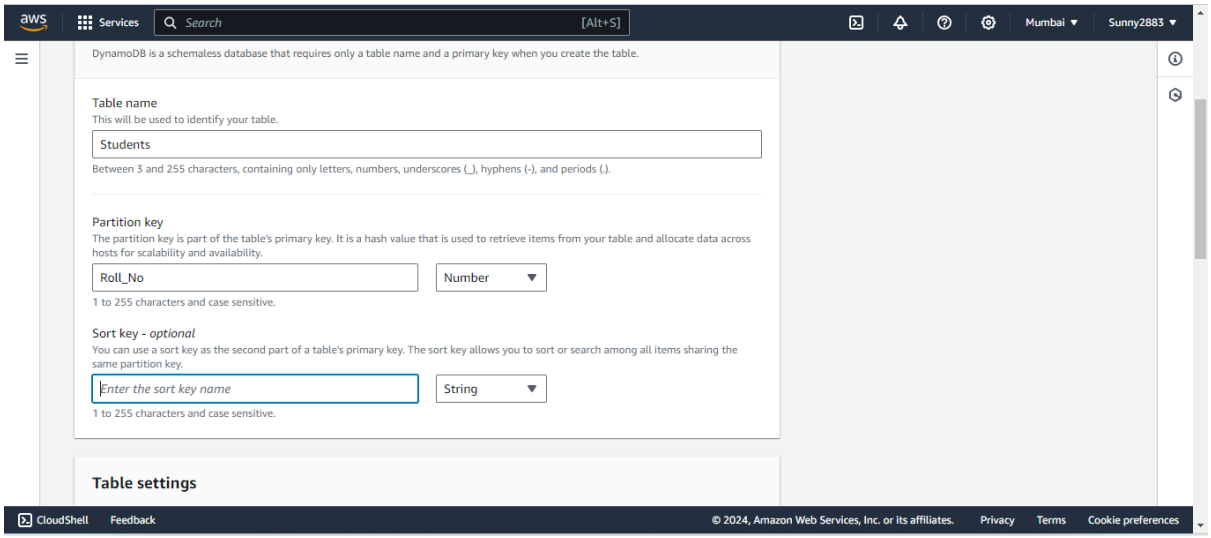
Step1: In the AWS Management Console, navigate to the DynamoDB service.



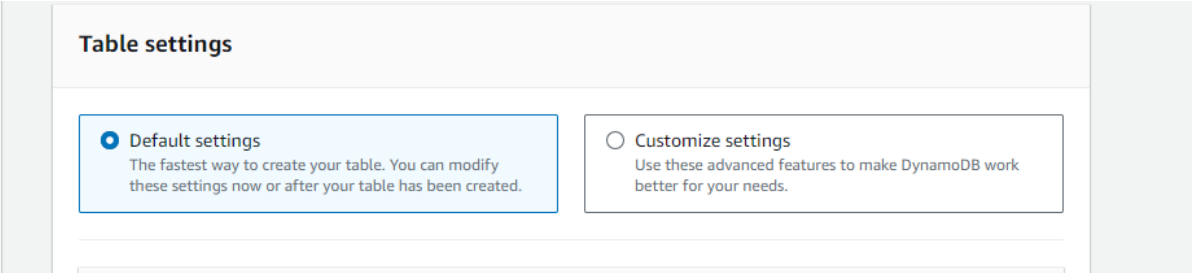
Step2: Click on the "Create table" button.



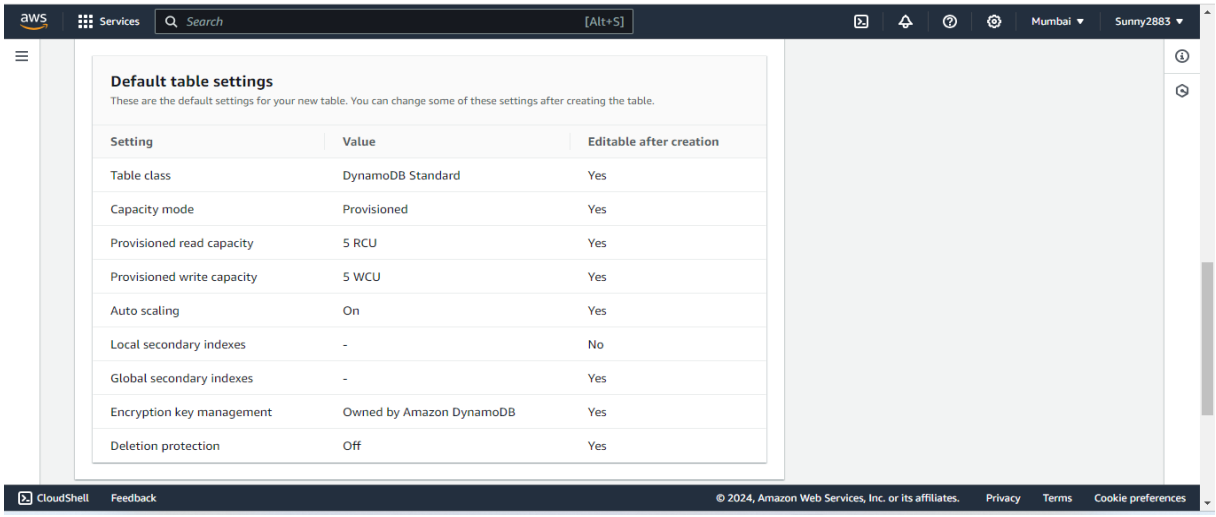
Step3: Provide a name for your table in the "Table name" field and enter a name for your primary key in the "Partition key" field. This will be your hash key. Optionally, you can also add a sort key by enabling the "Add sort key" option and entering a name for the sort key.



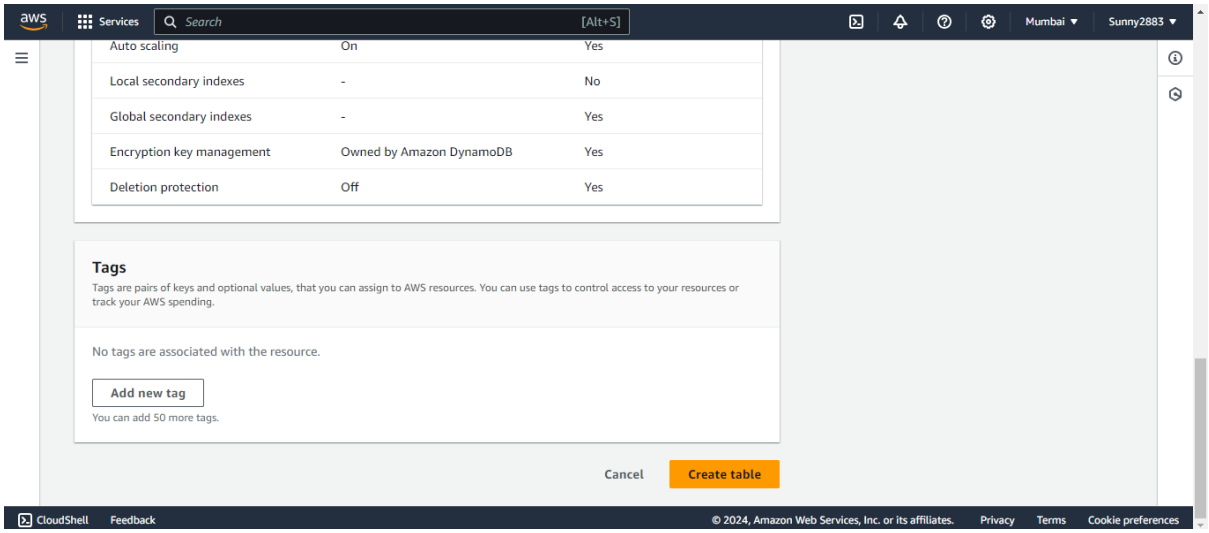
Step4: Configure Other Settings I choose default.



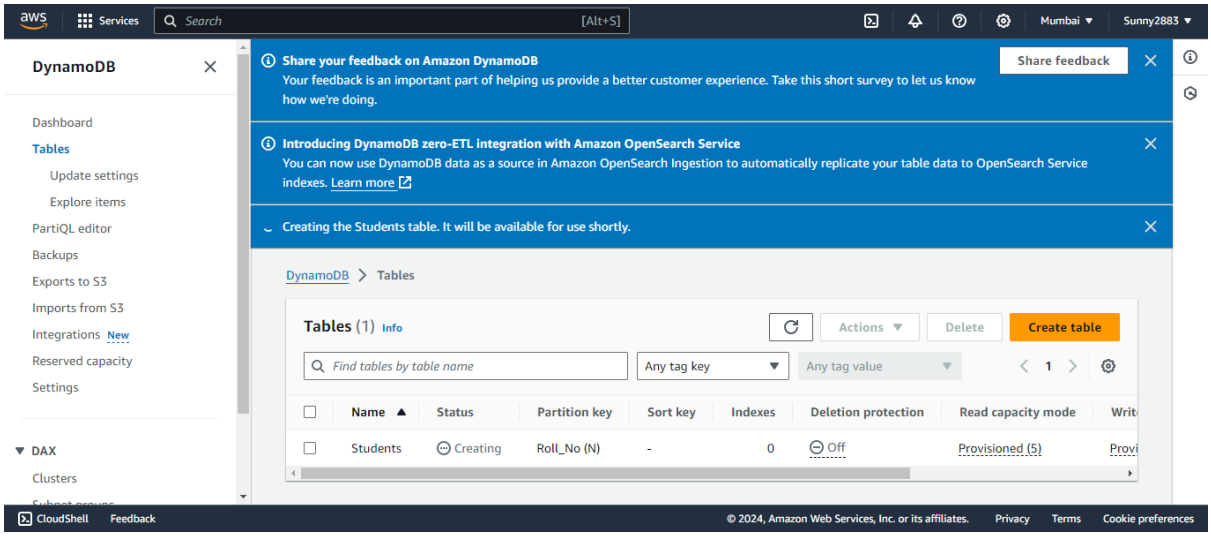
Step5: Configure default setting.

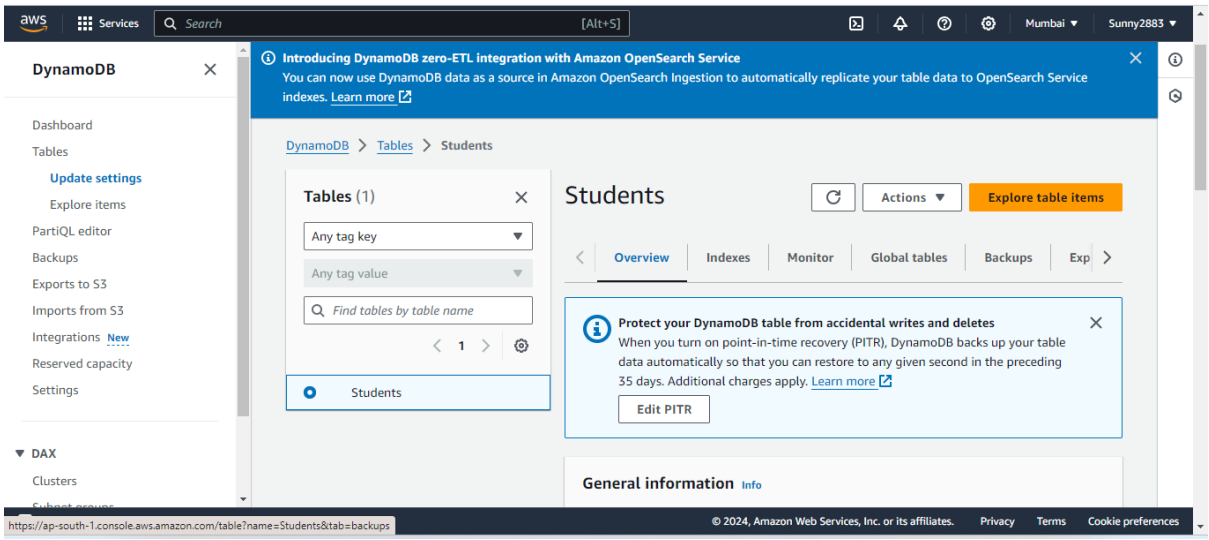


Step6: Review the configuration setting and click on create table.

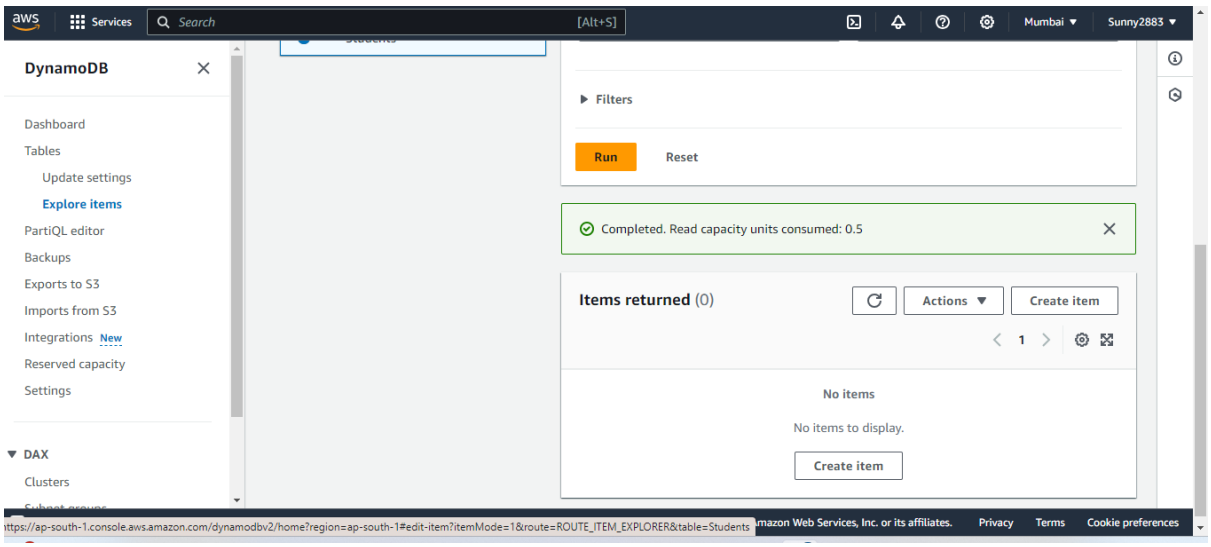


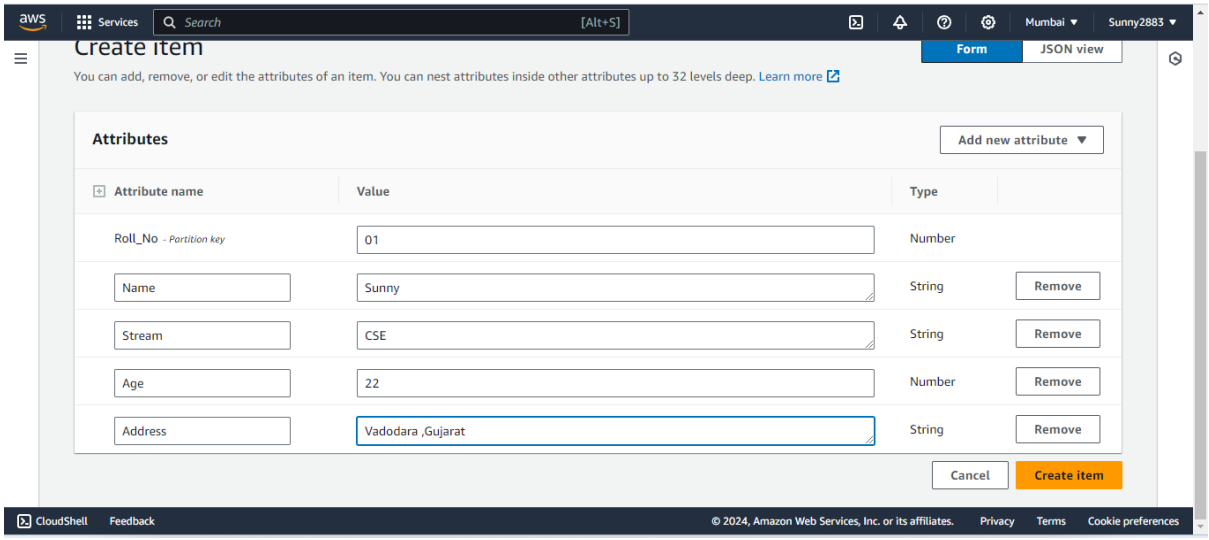
Step7: Check Table Status:





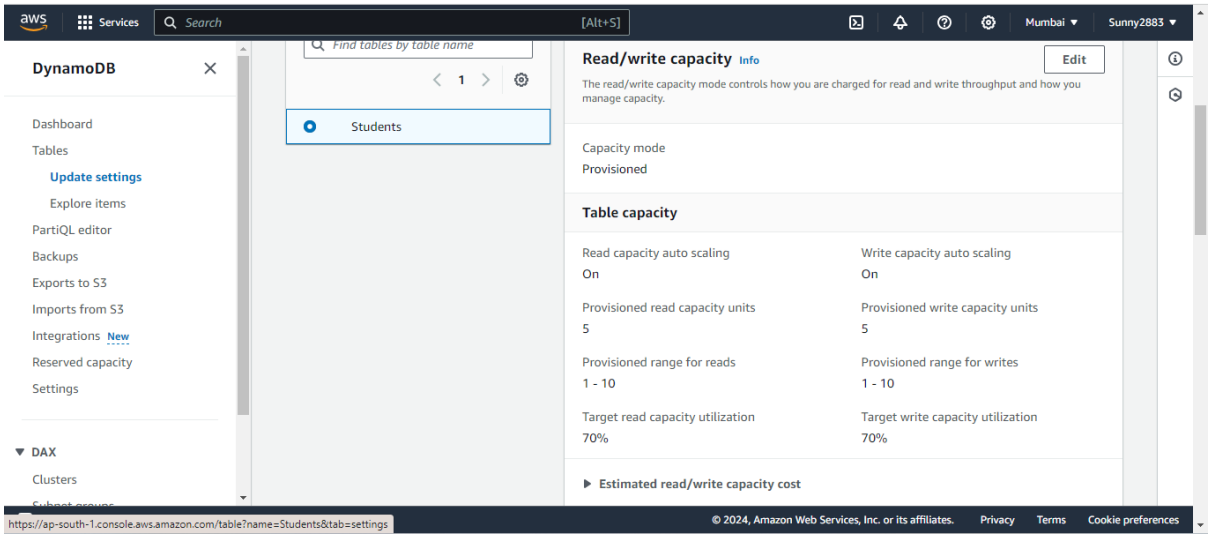
You can use the console to insert, retrieve, update, and delete items in the table by navigating to the "Items" tab of your table.





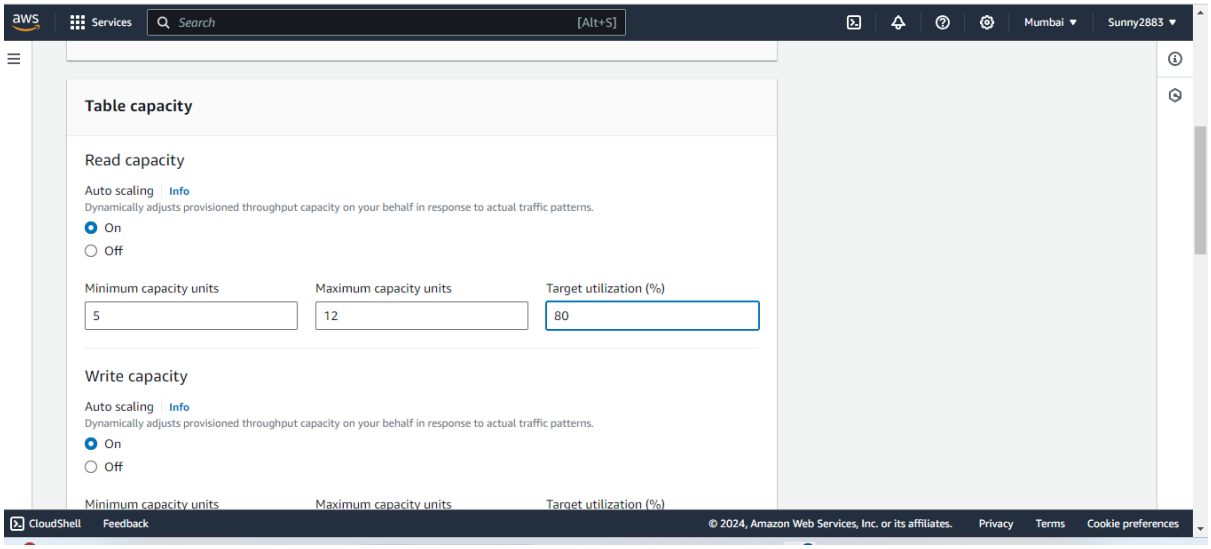
2. Define the provisioned throughput for the table.

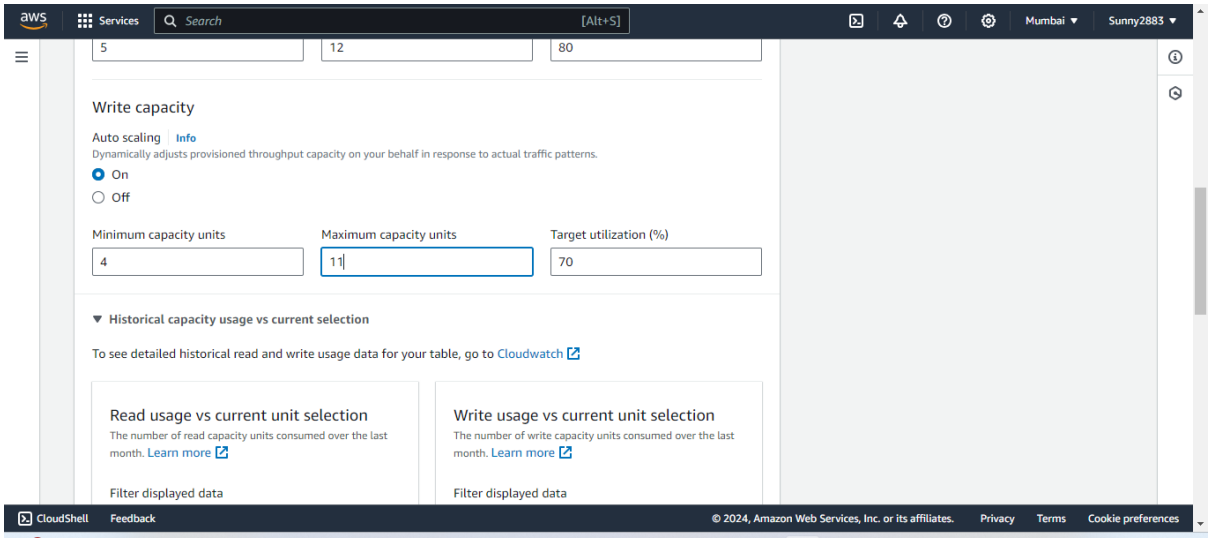
Step1: select the table for which you want to define provisioned throughput and in the selected table's details, go to the "Overview" tab in the selected table's details, go to the "Overview" tab.



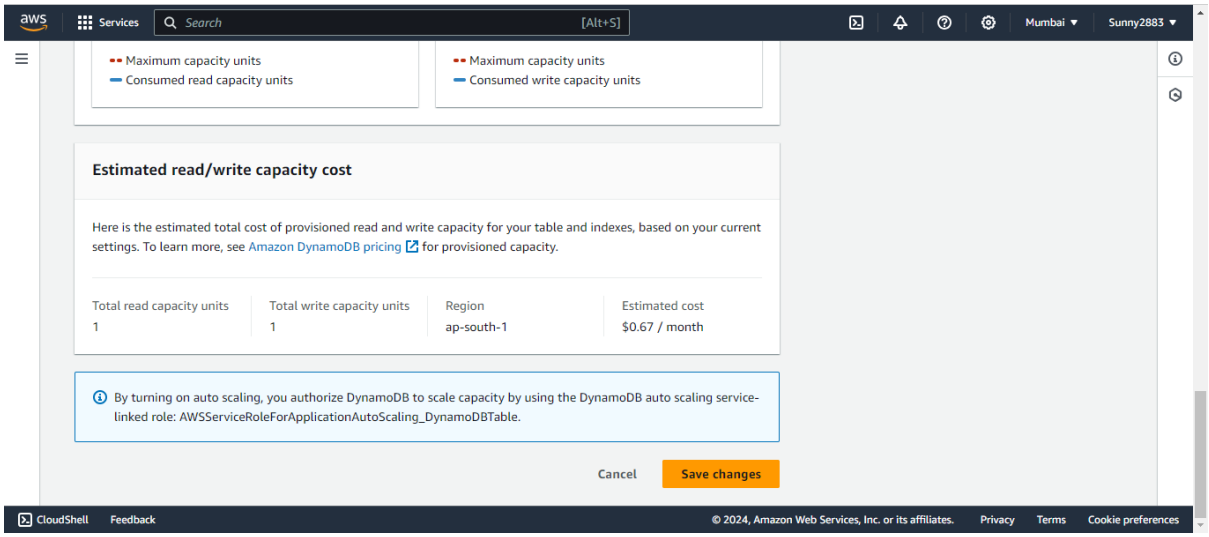
Step2: Under "Provisioned Throughput," you will see options to set read capacity and write capacity.

Enter the desired values for "Read capacity units" and "Write capacity units." These values represent the number of reads and writes per second that your table can handle.

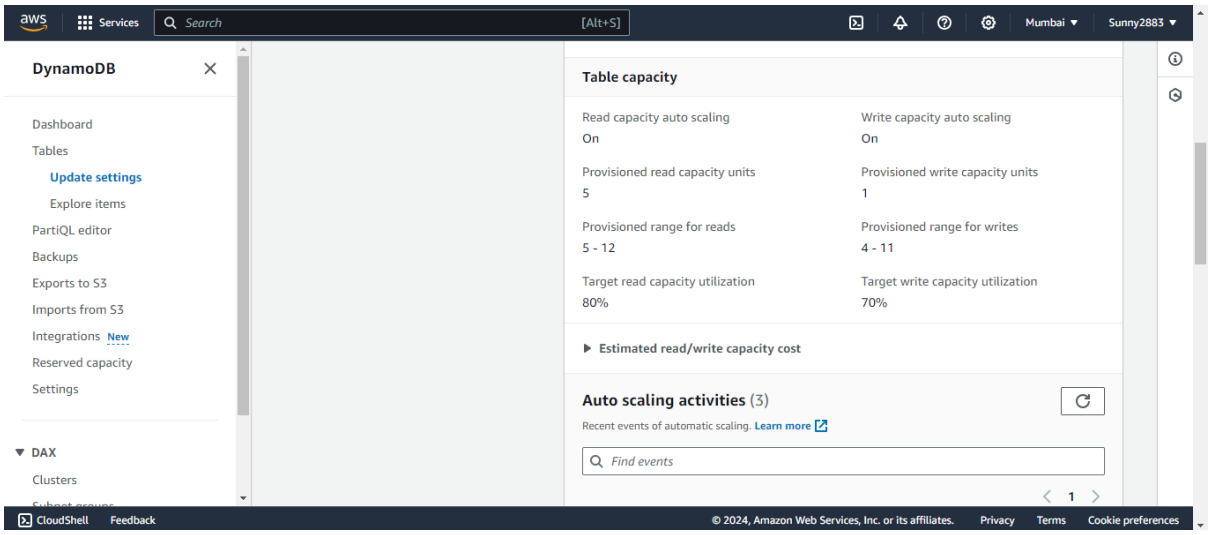




Step3: After configuring the provisioned throughput settings, click on the "Save" button.



Step4: Review your configuration settings on the confirmation screen.

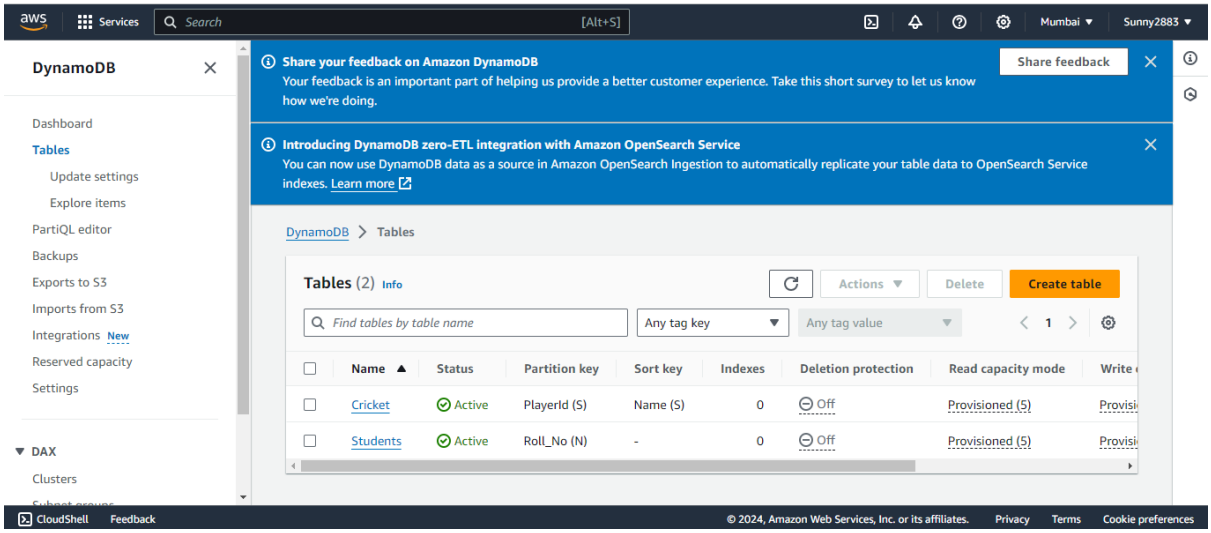


3. Run CRUD operation in the in-DB table using Queries.

1. Create DynamoDB Table:

Run the command to create a DynamoDB table

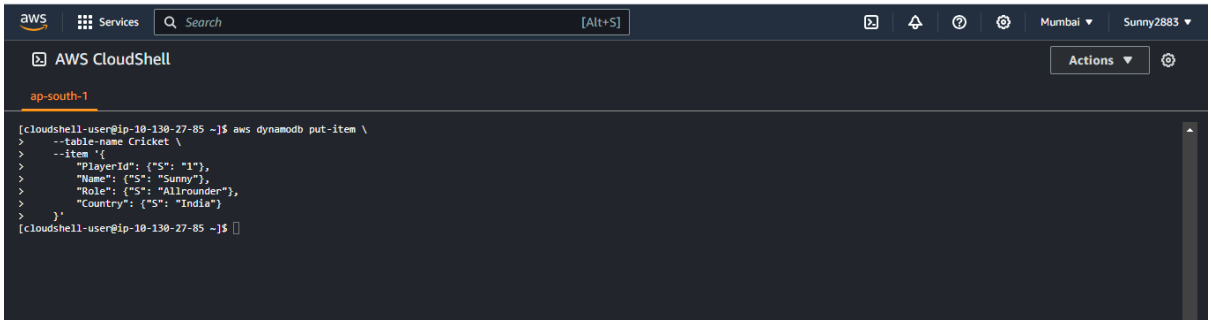
```
aws dynamodb create-table \
    --table-name Cricket \
    --attribute-definitions \
        AttributeName=PlayerId,AttributeType=S \
        AttributeName=Name,AttributeType=S \
    --key-schema \
        AttributeName=PlayerId,KeyType=HASH \
        AttributeName=Name,KeyType=RANGE \
    --provisioned-throughput \
        ReadCapacityUnits=5,WriteCapacityUnits=5 \
    --table-class STANDARD
```



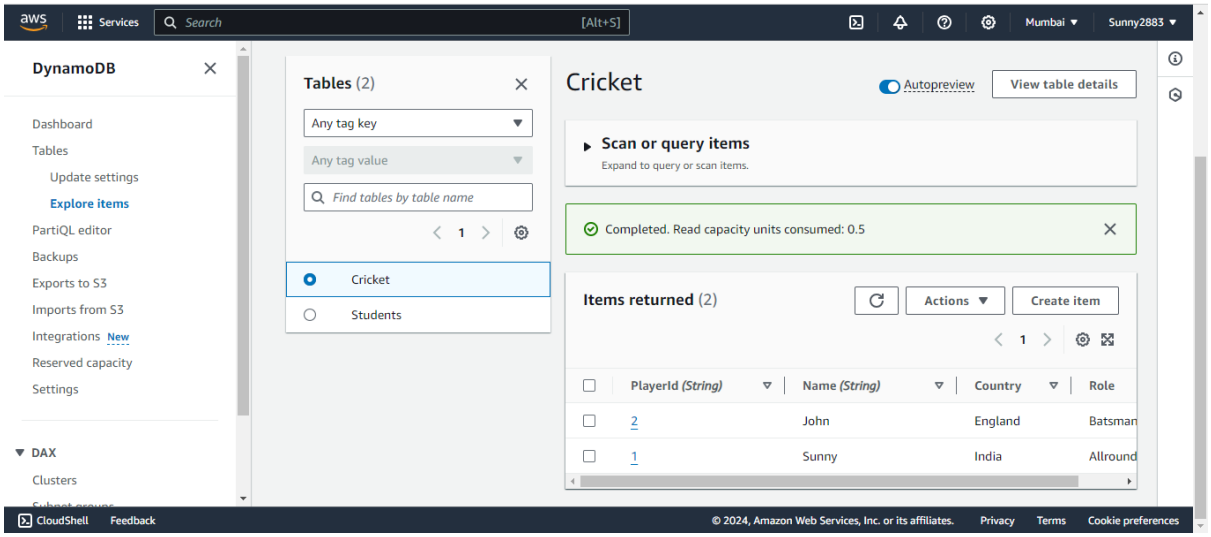
2. Insert Item:

Run the command to insert an item into the table:

```
aws dynamodb put-item \
    --table-name Cricket \
    --item '{
        "PlayerId": {"S": "1"},
        "Name": {"S": "Sunny"},
        "Role": {"S": "Allrounder"},
        "Country": {"S": "India"}
    }'
```



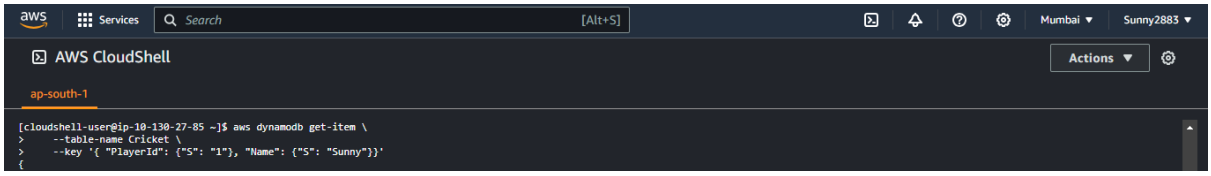
```
aws dynamodb put-item \
    --table-name Cricket \
    --item '{
        "PlayerId": {"S": "2"},
        "Name": {"S": "John"},
        "Role": {"S": "Batsman"},
        "Country": {"S": "England"}
    }'
```



3. Retrieve Item (Read):

Run the command to retrieve an item based on its primary key:

```
aws dynamodb get-item \
    --table-name Cricket \
    --key '{ "PlayerId": {"S": "1"}, "Name": {"S": "Sunny"}}'
```



4. Update Item:

Run the command to update an item:

aws dynamodb update-item \

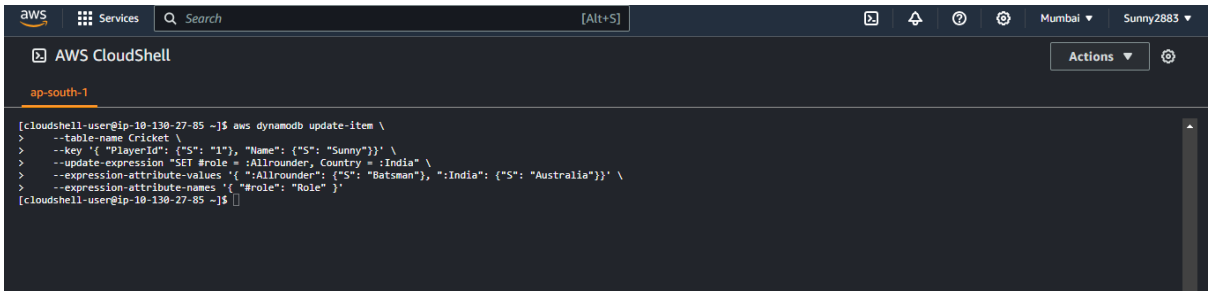
--table-name Cricket \

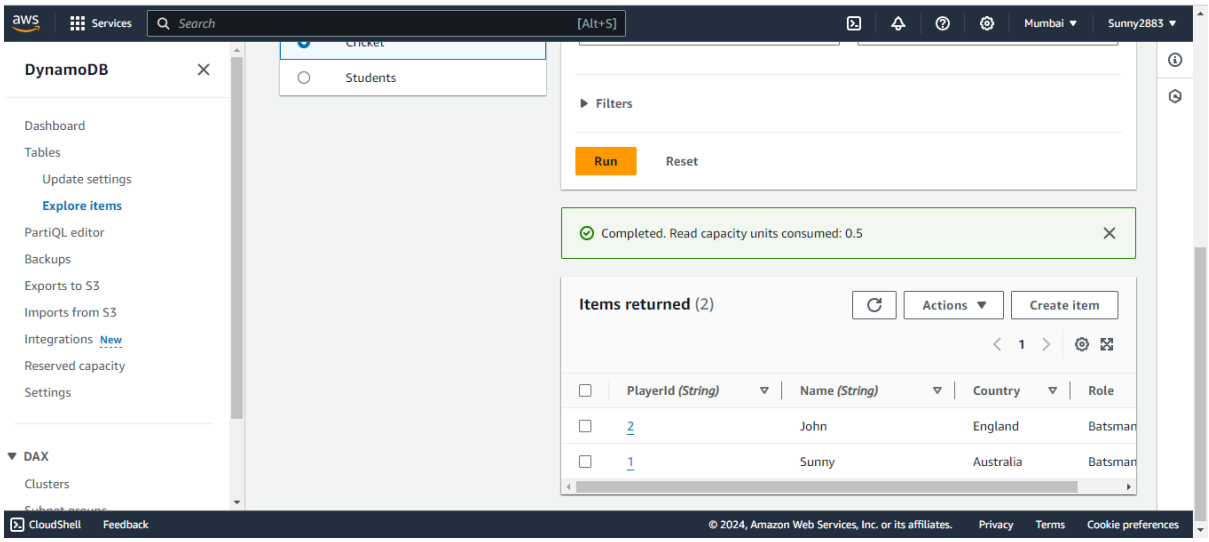
--key '{ "PlayerId": {"S": "1"}, "Name": {"S": "Sunny"}}' \

--update-expression "SET #role = :Allrounder, Country = :India" \

--expression-attribute-values '{ ":Allrounder": {"S": "Batsman"}, ":India": {"S": "Australia"}}' \

--expression-attribute-names '{ "#role": "Role" }'





5. Delete Item:

Run the command to delete an item:

```
aws dynamodb delete-item \
    --table-name Cricket \
    --key '{ "PlayerId": {"S": "2"}, "Name": {"S": "John"}}'
```