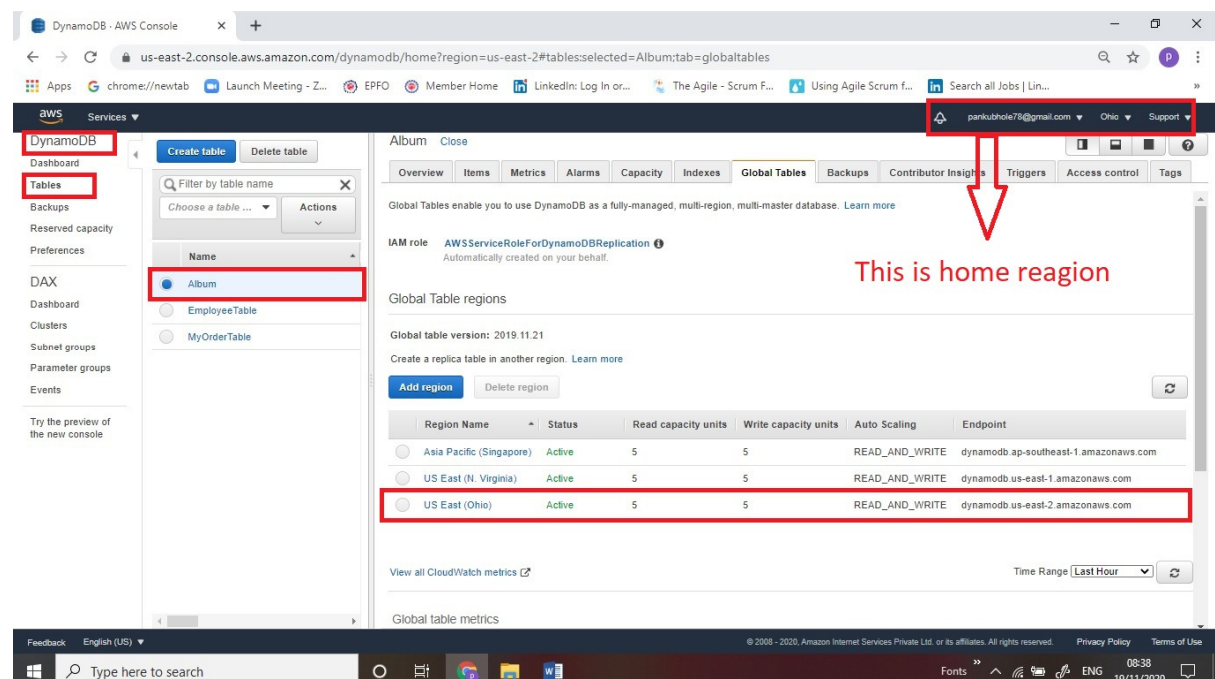
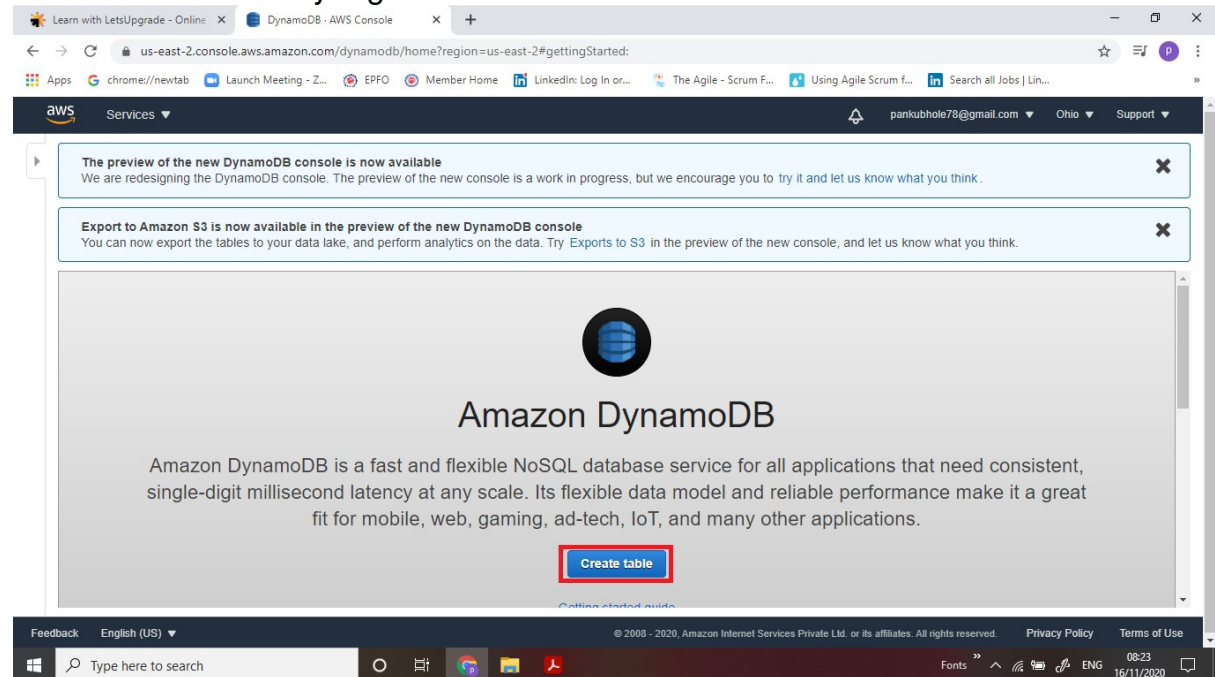


# Assignment Day 12 | 8th November 2020

## Question 1:

Task 1: Create a dynamo DB table with minimum two disaster recovery zones and verify Replication.

ss1: Disaster recovery regions with the table



DynamoDB - AWS Console

ap-southeast-1.console.aws.amazon.com/dynamodb/home?region=ap-southeast-1#tables:selected=Album;tab=globaltables

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Try the preview of the new console

Create table Delete table

Filter by table name

Choose a table ...

Actions

Name

Album

Album Close

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IAM role **AWSServiceRoleForDynamoDBReplication**  
Automatically created on your behalf.

Global Table regions

Global table version: 2019.11.21

Create a replica table in another region. [Learn more](#)

Add region Delete region

Region Name	Status	Read capacity units	Write capacity units	Auto Scaling	Endpoint
Asia Pacific (Singapore)	Active	5	5	READ_AND_WRITE	dynamodb.ap-southeast-1.amazonaws.com
US East (N. Virginia)	Active	5	5	READ_AND_WRITE	dynamodb.us-east-1.amazonaws.com
US East (Ohio)	Active	5	5	READ_AND_WRITE	dynamodb.us-east-2.amazonaws.com

Feedback English (US)

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DynamoDB - AWS Console

console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=Album;tab=globaltables

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Try the preview of the new console

Create table Delete table

Filter by table name

Choose a table ...

Actions

Name

Album

Album Close

Overview Items Metrics Alarms Capacity Indexes **Global Tables** Backups Contributor Insights More

Global Tables enable you to use DynamoDB as a fully-managed, multi-region, multi-master database. [Learn more](#)

IAM role **AWSServiceRoleForDynamoDBReplication**  
Automatically created on your behalf.

Global Table regions

Global table version: 2019.11.21

Create a replica table in another region. [Learn more](#)

Add region Delete region

Region Name	Status	Read capacity units	Write capacity units	Auto Scaling	Endpoint
Asia Pacific (Singapore)	Active	5	5	READ_AND_WRITE	dynamodb.ap-southeast-1.amazonaws.com
US East (N. Virginia)	Active	5	5	READ_AND_WRITE	dynamodb.us-east-1.amazonaws.com
US East (Ohio)	Active	5	5	READ_AND_WRITE	dynamodb.us-east-2.amazonaws.com

Feedback English (US)

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## ss2: Home region with all items displayed

The screenshot shows the AWS DynamoDB console interface. On the left sidebar, the 'Tables' tab is selected. In the main content area, the 'Album' table is chosen. The 'Items' tab is active, displaying a list of items. The table has two columns: 'Actors' and 'Song'. The items are as follows:

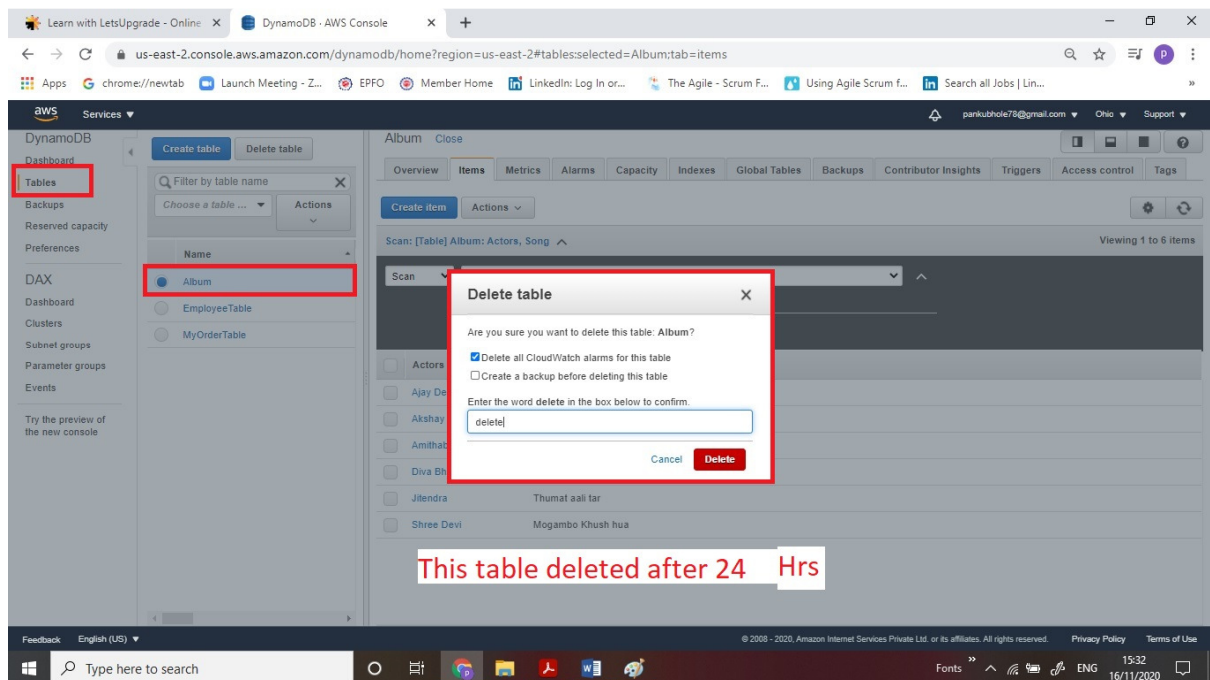
Actors	Song
Ajay Devgan	I love you india
Akshay Kumar	O dilbhar
Amithab Bacchan	O sathi Re
Diva Bharati	Asi devangi
Jitendra	Thumat aali tar

## ss3: Use query to fetch few items

The screenshot shows the AWS DynamoDB console interface. On the left sidebar, the 'Tables' tab is selected. In the main content area, the 'MyOrderTable' is chosen. The 'Query' tab is active, displaying a query configuration. The query is set to 'Query: [Table] MyOrderTable: UserName, OrderId'. The 'Partition key' is 'UserName' and the 'Sort key' is 'OrderId'. The filter is set to 'ReturnDate' between '03052017' and '05062019'. The results are displayed as follows:

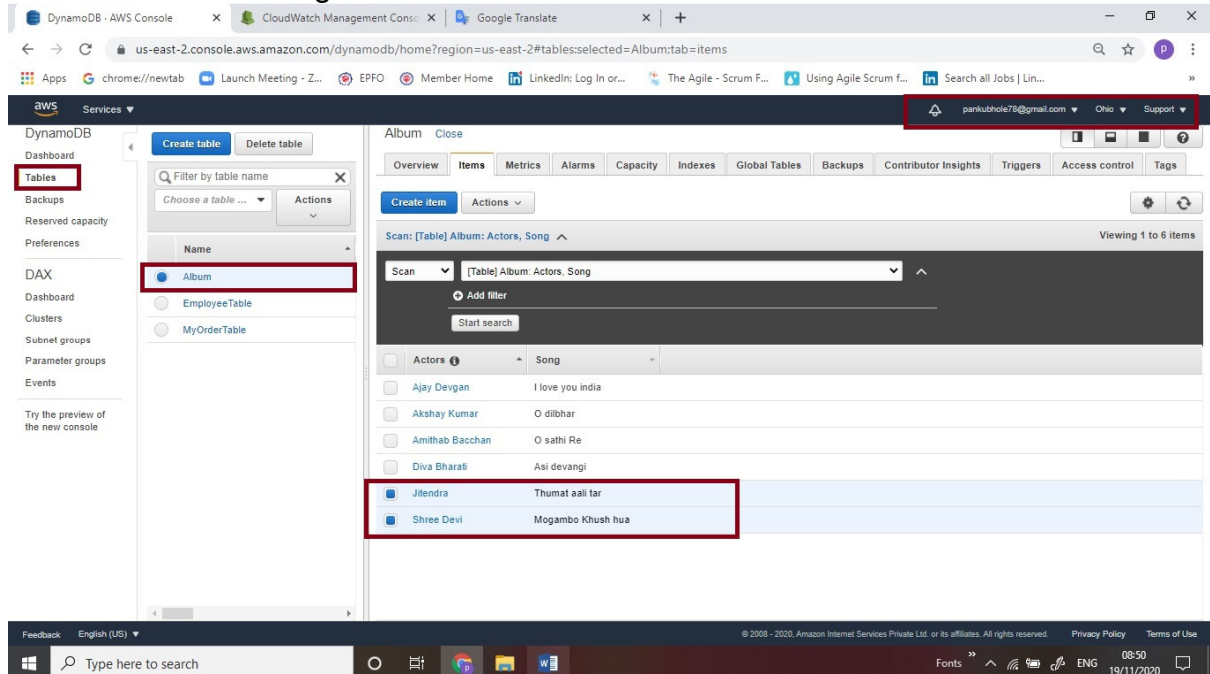
UserName	OrderId	UserAmount	ReturnDate
Deepak	245545221	50000	03052017

## ss4: deletion and verification



Please verify after deleted home regions table filed and another region table filed below screen shot.

This screen is showing table filed in this screen selected fields was deleted.



Match above screen ( home region fields ) and another two region replica fields that is deleted.



DynamoDB - AWS Console

console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=Album;tab=items

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Try the preview of the new console

Create table Delete table

Filter by table name

Choose a table ... Actions

Name

Album

Album Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Contributor Insights More

Create item Actions

Scan: [Table] Album: Actors, Song

Viewing 1 to 4 items

Scan [Table] Album: Actors, Song

Add filter

Start search

Actors	Song
Ajay Devgan	I love you india
Akshay Kumar	O dilbhar
Amithab Bacchan	O sathi Re
Divya Bharati	Asi devangi

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DynamoDB - AWS Console

ap-southeast-1.console.aws.amazon.com/dynamodb/home?region=ap-southeast-1#tables:selected=Album;tab=items

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Try the preview of the new console

Create table Delete table

Filter by table name

Choose a table ... Actions

Name

Album

Album Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups More

Create item Actions

Scan: [Table] Album: Actors, Song

Viewing 1 to 4 items

Scan [Table] Album: Actors, Song

Add filter

Start search

Actors	Song
Ajay Devgan	I love you india
Akshay Kumar	O dilbhar
Amithab Bacchan	O sathi Re
Divya Bharati	Asi devangi

Feedback English (US)

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## Task 2: Creating a dynamo DB table with global secondary indexes and fetching data using global Secondary indexes.

### ss1: Table with its items displayed

The screenshot shows the AWS DynamoDB console interface. On the left sidebar, the 'Tables' tab is selected. In the 'Choose a table' dropdown, 'Album' is selected. The main panel displays the 'Items' tab for the 'Album' table. The table has a primary key 'Actors' and a secondary key 'Song'. The items are listed as follows:

Actors	Song
Ajay Devgan	I love you india
Akshay Kumar	O dilbhar
Amitabh Bacchan	O sathi Re
Divya Bharati	Asi devangi
Jilendra	Thumat aali tar
Shree Devi	Mogambo Khush hua

### ss2: Creating global secondary index

The screenshot shows the AWS DynamoDB console interface. On the left sidebar, the 'Tables' tab is selected. In the 'Choose a table' dropdown, 'MyOrderTable' is selected. The main panel displays the 'Indexes' tab for the 'MyOrderTable'. A new global secondary index is being created with the following details:

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item
ReturnDate-UserAmount	Creating	GSI	ReturnDate (String)	UserAmount (String)	ALL	5	5	0 bytes	0

## ss3: scan with global secondary index

The screenshot shows the AWS DynamoDB console for a table named 'MyOrderTable'. The 'Items' tab is selected, and a scan operation is being performed on the '[Index] ReturnDate-UserAmount-index: ReturnDate, UserAmount'. The scan filter is set to 'ReturnDate' between '03052017' and '05062019'. The results show two items:

UserName	OrderId	UserAmount	ReturnDate
Deepak	245545221	50000	03052017
Kishore	2121545	220202	05062019

## Task 3: Deploying a python application in elastic beanstalk

### ss1: Application page

The screenshot shows the AWS Elastic Beanstalk console. The 'Applications' tab is selected, and the 'All applications' page is displayed. A table lists the applications:

Application name	Environments	Date created	Last modified	ARN
PythonApp	Pythonapp-env	2020-11-16 15:58:37 UTC+0530	2020-11-16 15:58:37 UTC+0530	arn:aws:elasticbeanstalk:us-east-2:618639665310:application/PythonApp

## ss2: Env list page

The screenshot shows the AWS Elastic Beanstalk console. The left sidebar contains navigation links for Environments, Applications, PythonApp, Application versions, Saved configurations, Go to environment, Configuration, Logs, Health, Monitoring, Alarms, Managed updates, Events, and Tags. The main content area displays the details for the 'Pythonapp-env' environment. At the top, there are two informational banners: one about Shared Application Load Balancers and another about Enhanced Health Authorization. Below these, the environment name 'Pythonapp-env' is highlighted with a red box, along with its URL and application name. The 'Health' section shows a green checkmark and 'Ok' status. The 'Running version' section shows 'Sample Application' with an 'Upload and deploy' button. The 'Platform' section shows 'Python 3.7 running on 64bit Amazon Linux 2/3.1.3' with a 'Change' button. At the bottom, there is a 'Recent events' section with a 'Show all' button.

The screenshot shows the AWS Management Console, specifically the EC2 instance details page for the 'Pythonapp-env' environment. The top navigation bar includes 'Launch Instance', 'Connect', and 'Actions'. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, INSTANCES, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, IMAGES, AMIs, ELASTIC BLOCK STORE, Volumes, Snapshots, Lifecycle Manager, NETWORK & SECURITY, Security Groups, and Elastic IPs. The main content area displays the details for the instance 'i-0070692c51b47665'. The instance is in the 'running' state, using the 't2.micro' instance type in the 'us-east-2a' availability zone. The 'Description' tab is selected, showing various details. A red box highlights the 'Private DNS' section, which includes the private IP address '172.31.11.204' and the private DNS name 'ip-172-31-11-204.us-east-2.compute.internal'. Another red box highlights the 'Public DNS' section, which includes the public IP address '3.129.217.211' and the public DNS name 'ec2-3-129-217-211.us-east-2.compute.amazonaws.com'. The 'Tags' tab is also visible, showing the instance is tagged with 'Pythonapp-env'.



## ss3: Env health status page

The screenshot shows the AWS Elastic Beanstalk console. The left sidebar has 'Environments' highlighted. The main area is titled 'All environments'. A table lists the environments. The 'Pythonapp-env' environment is highlighted, and its 'Health' status is 'OK'.

Environment name	Health	Application name	Date created	Last modified	URL	Running versions	Platform	Platform state	Tier name
Pythonapp-env	OK	PythonApp	2020-11-16 15:58:46 UTC+0530	2020-11-16 16:01:55 UTC+0530	Pythonapp-env-eba-xmmyrjwz-us-east-2.elasticbeanstalk.com	Sample Application	Python 3.7 running on 64bit Amazon Linux 2	Supported	WebServer

## ss4: Web page launched using the elastic beanstalk env

The screenshot shows the AWS Elastic Beanstalk console for the 'Pythonappworkstationenv-env' environment. The 'Health' status is 'Ok'. The 'Running version' is 'pythonappworkstationenv-source-1'. The 'Platform' is 'Python 3.7 running on 64bit Amazon Linux 2/3.1.3'. The 'Recent events' section shows two successful events.

Time	Type	Details
2020-11-16 17:01:03 UTC+0530	INFO	Environment update completed successfully.
2020-11-16 17:01:03 UTC+0530	INFO	New application version was deployed to running EC2 instances.

# Congratulations

Your first AWS Elastic Beanstalk Python Application is now running on  
your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Python Platform

## What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
- [Deploy a Django Application to AWS Elastic Beanstalk](#)
- [Deploy a Flask Application to AWS Elastic Beanstalk](#)
- [Customizing and Configuring a Python Container](#)
- [Working with Logs](#)