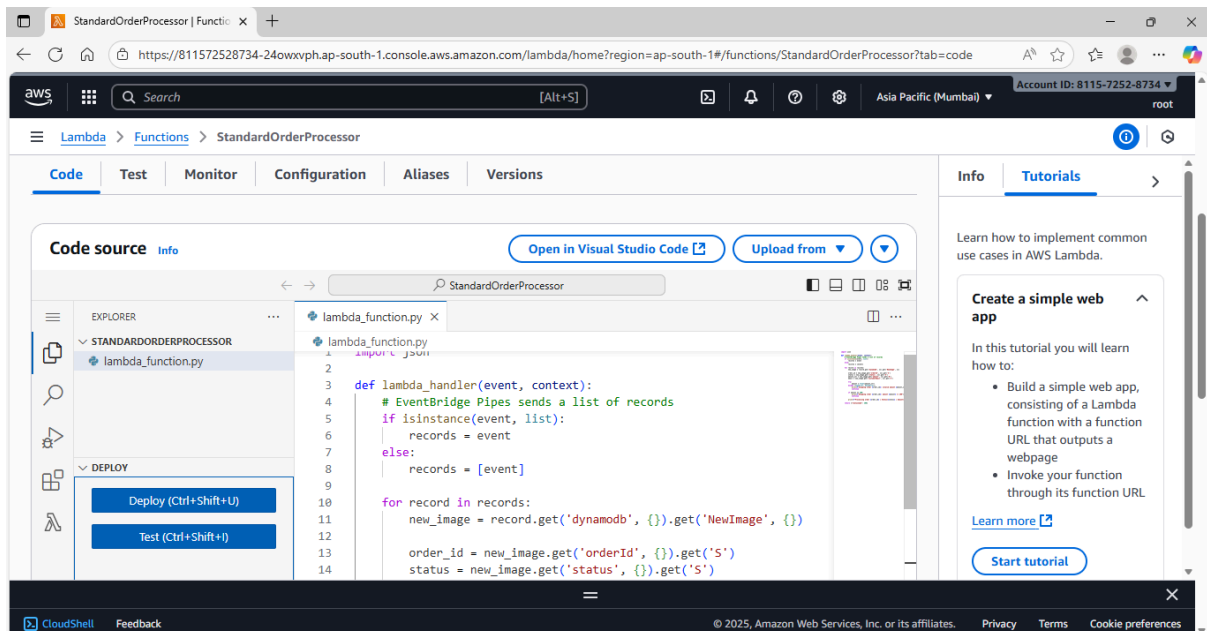
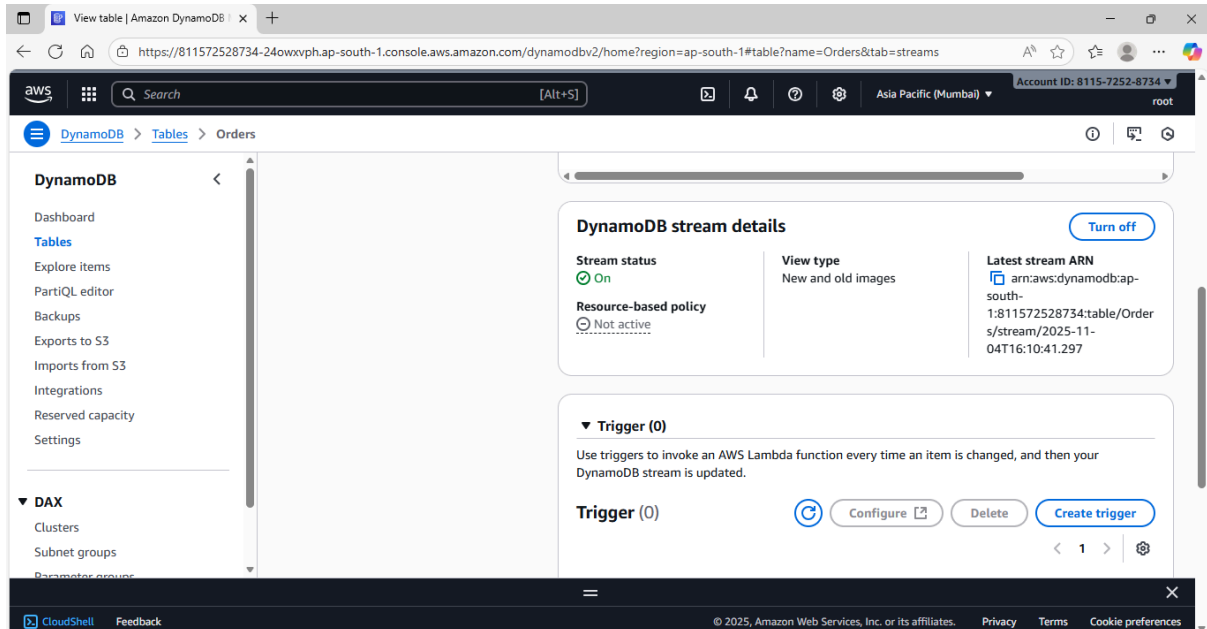


TASK - 2

Name : Ponvaishnavi MR

Location : Chennai

Real-time data processing pipeline for an e-commerce application :



PremiumOrderProcessor | Functions

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/PremiumOrderProcessor?tab=code

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Lambda > Functions > PremiumOrderProcessor

Code Test Monitor Configuration Aliases Versions

Code source Info

Open in Visual Studio Code Upload from

EXPLORER

PREMIUMORDERPROCESSOR

lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

```
1 import json
2
3 def lambda_handler(event, context):
4     premium_orders = []
5     if isinstance(event, list):
6         records = event
7     else:
8         records = [event]
9
10    for record in records:
11        dynamodb = record.get('dynamodb', {})
12        new = dynamodb.get('NewImage', {})
13        old = dynamodb.get('OldImage', {})
14
```

Info Tutorials

Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

Learn more

Start tutorial

CloudShell Feedback

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Items | Amazon DynamoDB Manager

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#item-explorer?maximize=true&table=Orders

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

DynamoDB > Explore items > Orders

DynamoDB

Dashboard

Tables

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Integrations

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Completed · Items returned: 5 · Items scanned: 5 · Efficiency: 100% · RCUs consumed: 2

Table: Orders - Items returned (5)

Scan started on November 06, 2025, 14:03:16

	orderId (String)	amount	createdAt	customerEmail
<input type="checkbox"/>	ORDER101	1500	2025-11-0...	new@example.c...
<input type="checkbox"/>	ORDER301	2000	2025-11-0...	vip@example.com
<input type="checkbox"/>	ORDER201	250	2025-11-0...	user@example.c...
<input type="checkbox"/>	ORDER103	250	2025-11-0...	qa@test.com
<input type="checkbox"/>	ORDER102	75	2025-11-0...	low@example.c...

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Amazon EventBridge | ap-south-1 X +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/events/home?region=ap-south-1#/pipe/OrdersStandardPipe

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon EventBridge > Pipes > OrdersStandardPipe

Rules
Global endpoints
Archives
Replays
▼ Pipes
Pipes
▼ Scheduler
Schedules
Schedule groups
▼ Integration
Partner event sources
API destinations
Connections
▼ Schema registry
Schemas

OrdersStandardPipe

Details Info

Name
OrdersStandardPipe

Description

Status
Running

Status reason
No records processed

ARN
arn:aws:pipes:ap-south-1:811572528734:pipe/OrdersStandardPipe

Created on
Nov 5, 2025, 11:43 AM GMT+5:30

Last modified on
Nov 5, 2025, 11:43 AM GMT+5:30

Pipe Components Info

Source Required
DynamoDB Stream

Filtering Optional
Added

Target Required
Lambda function

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Amazon EventBridge | ap-south-1 X +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/events/home?region=ap-south-1#/pipe/OrdersStandardPipe

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon EventBridge > Pipes > OrdersStandardPipe

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Archives
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▼ Pipes
Pipes
▼ Scheduler
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Partner event sources
API destinations
Connections
▼ Schema registry
Schemas

Execution Role
[service-role/Amazon_EventBridge_Pipe_Execution_5e43548e](#)

Retry policy and Dead-letter queue (DLQ)

Dead-Letter Queue
[orders-standard-dlq](#)
SQS Queue

SQS Queue ARN
arn:aws:sqs:ap-south-1:811572528734:orders-standard-dlq

Retry Policy
Retry attempts:
-1 attempts
Maximum Age of Event:
59m

CloudWatch logs Info

Log destination
CloudWatch logs

Log level
ERROR

CloudWatch log group
[/aws/vendedlogs/pipes/OrdersStandardPipe](#)

ARN
arn:aws:logs:ap-south-1:811572528734:log-group:/aws/vendedlogs/pipes/OrdersStandardPipe

Log execution data

CloudShell Feedback

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Amazon EventBridge | ap-south-1 | Log Groups | CloudWatch | ap-south-1 | +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/events/home?region=ap-south-1#/pipe/OrdersPremiumPipe

aws [Search] [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon EventBridge > Pipes > OrdersPremiumPipe

Rules
Global endpoints
Archives
Replays
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Pipes
▼ Scheduler
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▼ Integration
Partner event sources
API destinations
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Schemas

OrdersPremiumPipe

[Details](#) [Info](#) [Edit](#) [Stop](#) [Delete](#) [CloudFormation Template](#)

Details [Info](#)

Name
OrdersPremiumPipe

Description

Status
Running


Status reason
No records processed

ARN
arn:aws:pipes:ap-south-1:811572528734:pipe/OrdersPremiumPipe


Created on
Nov 5, 2025, 11:51 AM GMT+5:30

Last modified on
Nov 5, 2025, 11:55 AM GMT+5:30


Pipe Components [Info](#)

**Source**
Required
DynamoDB Stream

→

**Filtering**
Optional
Added

→

**Target**
Required
Lambda function

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Amazon EventBridge | ap-south-1 | Log Groups | CloudWatch | ap-south-1 | +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/events/home?region=ap-south-1#/pipe/OrdersPremiumPipe

aws [Search] [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon EventBridge > Pipes > OrdersPremiumPipe

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Global endpoints
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▼ Pipes
Pipes
▼ Scheduler
Schedules
Schedule groups
▼ Integration
Partner event sources
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▼ Schema registry
Schemas

OrdersPremiumPipe

[Settings](#) [Encryption](#) [Monitoring](#) [Tags](#)

Permissions

Execution Role
[service-role/Amazon_EventBridge_Pipe_Execution_f466cabd](#)

Retry policy and Dead-letter queue (DLQ)

Dead-Letter Queue
[orders-premium-dlq](#)
SQS Queue

SQS Queue ARN
[arn:aws:sqs:ap-south-1:811572528734:orders-premium-dlq](#)

Retry Policy
Retry attempts:
-1 attempts
Maximum Age of Event:
59m

CloudWatch logs [Info](#)

Log destination

CloudWatch log group

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Queue details | Simple Queue Ser... x Log Groups | CloudWatch | ap-sou... x +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazona...

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon SQS > Queues > orders-standard-dlq

orders-standard-dlq

Edit Delete Purge Send and receive messages Start DLQ redrive

Details Info

Name orders-standard-dlq	Type Standard	ARN arn:aws:sqs:ap-south-1:811572528734:orders-standard-dlq
Encryption Amazon SQS key (SSE-SQS)	URL https://sqs.ap-south-1.amazonaws.com/811572528734/orders-standard-dlq	Dead-letter queue -

► More

< Queue policies Monitoring SNS subscriptions Lambda triggers EventBridge Pipes Dead-letter queue Tagging Encryption >

Access policy Info Edit

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Queue details | Simple Queue Ser... x Log Groups | CloudWatch | ap-sou... x +

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazona...

aws Search [Alt+S] Asia Pacific (Mumbai) Account ID: 8115-7252-8734 root

Amazon SQS > Queues > orders-premium-dlq

orders-premium-dlq

Edit Delete Purge Send and receive messages Start DLQ redrive

Details Info

Name orders-premium-dlq	Type Standard	ARN arn:aws:sqs:ap-south-1:811572528734:orders-premium-dlq
Encryption Amazon SQS key (SSE-SQS)	URL https://sqs.ap-south-1.amazonaws.com/811572528734/orders-premium-dlq	Dead-letter queue -

► More

< Queue policies Monitoring SNS subscriptions Lambda triggers EventBridge Pipes Dead-letter queue Tagging Encryption >

Access policy Info Edit

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Queue details | Simple Queue Ser

CloudWatch | ap-south-1

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/\$252Faws\$252Ffla...

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 8115-7252-8734

root

CloudWatch

Log groups

/aws/lambda/StandardOrderProcessor

CloudWatch

Favorites and recents

Dashboards

AI Operations

Alarms

Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

Metrics

Application Signals

Creation time

1 day ago

Retention

Never expire

Stored bytes

1.32 KB

KMS key ID

-

Anomaly detection

Configure

Transformer

Configure

Log streams

Tags

Anomaly detection

Metric filters

Subscription filters

Contributor Insights

Data

Log streams (1)

By default, we only load the most recent log streams.

Filter log streams or try prefix search

Exact match

Show expired

Info

1

Log stream

Last event time

2025/11/05/[\$LATEST]e8b5d4ad2f9f4df0ac47045f4cec8f55

2025-11-05 06:32:06 (UTC)

CloudShell

Feedback

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Queue details | Simple Queue Ser

CloudWatch | ap-south-1

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/\$252Faws\$252Ffla...

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 8115-7252-8734

root

CloudWatch

Log groups

/aws/lambda/StandardOrderProcessor

2025/11/05/[\$LATEST]e8b5d4ad2f9f4df0ac47045f4cec8f55

CloudWatch

Favorites and recents

Dashboards

AI Operations

Alarms

Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

Metrics

Application Signals

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns

Filter events - press enter to search

1m

1h

UTC timezone

Display

Timestamp

Message

2025-11-05T06:30:11.313Z

INIT_START Runtime Version: python:3.12.v89 Runtime Version ARN: arn:aws:lambda:ap-south-1::runtime:644f...

2025-11-05T06:30:11.409Z

START RequestId: efdba8a3-2b5f-4c54-ac32-4713f2f7c949 Version: \$LATEST

2025-11-05T06:30:11.410Z

Processing order ORDER201 | Status=pending | Amount=250.0 | Email=user@example.com

2025-11-05T06:30:11.411Z

END RequestId: efdba8a3-2b5f-4c54-ac32-4713f2f7c949

2025-11-05T06:30:11.411Z

REPORT RequestId: efdba8a3-2b5f-4c54-ac32-4713f2f7c949 Duration: 2.07 ms Billed Duration: 95 ms Memory S...

2025-11-05T06:30:51.100Z

START RequestId: 86cd2504-b27e-4a5d-ac97-b3184e73e6f4 Version: \$LATEST

2025-11-05T06:30:51.101Z

Processing order ORDER301 | Status=pending | Amount=2000.0 | Email=vip@example.com

2025-11-05T06:30:51.102Z

END RequestId: 86cd2504-b27e-4a5d-ac97-b3184e73e6f4

Back to top

CloudShell

Feedback

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Queue details | Simple Queue Ser

CloudWatch | ap-south-1

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/\$252Faws\$252Fla...

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 8115-7252-8734

root

CloudWatch

Log groups

/aws/lambda/PremiumOrderProcessor

Creation time
1 day ago

Retention
Never expire

Stored bytes
541 bytes

KMS key ID
-

Anomaly detection
[Configure](#)

Transformer
[Configure](#)

Log streams

Tags

Anomaly detection

Metric filters

Subscription filters

Contributor Insights

Data

Log streams (1)

By default, we only load the most recent log streams.

☐ Exact match ☐ Show expired [Info](#)

☐ Log stream

Last event time

2025/11/05/[\$LATEST]fd98addf93424abf9e1b3c922ea56a49

2025-11-05 06:32:07 (UTC)

CloudShell

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Queue details | Simple Queue Ser

CloudWatch | ap-south-1

https://811572528734-24owxvph.ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/\$252Faws\$252Fla...

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 8115-7252-8734

root

CloudWatch

Log groups

/aws/lambda/PremiumOrderProcessor

2025/11/05/[\$LATEST]fd98addf93424abf9e1b3c922ea56a49

Log events

[Actions](#) [Start tailing](#) [Create metric filter](#)

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

1m 1h

UTC timezone

[Display](#)

Timestamp

Message

No older events at this moment. [Retry](#)

▶ 2025-11-05T06:32:07.285Z

INIT_START Runtime Version: python:3.12.v89 Runtime Version ARN: arn:aws:lambda:ap-south-1::runtime:644f99...

▶ 2025-11-05T06:32:07.375Z

START RequestId: a3711b97-42b9-456b-8071-edb04cc59c74 Version: \$LATEST

▶ 2025-11-05T06:32:07.376Z

🚚

 Premium order shipped! Order ID: ORDER301 | Amount=2000.0

▶ 2025-11-05T06:32:07.381Z

END RequestId: a3711b97-42b9-456b-8071-edb04cc59c74

▶ 2025-11-05T06:32:07.381Z

REPORT RequestId: a3711b97-42b9-456b-8071-edb04cc59c74 Duration: 2.38 ms Billed Duration: 89 ms Memory Siz...

No newer events at this moment. *Auto retry paused.* [Resume](#)

CloudShell

Feedback

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