

ProcessOrders

ProcessOrders

The trigger tarun-ltc6190 was successfully added to function ProcessOrders.

Function overview

Diagram Template

ProcessOrders

Layers (0)

S3

+ Add trigger

+ Add destination

Description

Last modified: 5 minutes ago

Function ARN: arn:aws:lambda:us-east-1:618364338459:function:ProcessOrders

Function URL: info

Code Test Monitor Configuration Aliases Versions

Code source

Open in Visual Studio Code

Upload from

```
1 import boto3
2 import csv
3 import io
4 from datetime import datetime, timedelta
5 import urllib.parse
6
7 s3 = boto3.client('s3')
8
9 def lambda_handler(event, context):
10     print("Lambda triggered by S3 event.")
11
12     # Get the S3 bucket and object key from the event
13     bucket_name = event['Records'][0]['s3']['bucket']['name']
14     key_from_event = event['Records'][0]['s3']['object']['key']
15     raw_key = urllib.parse.unquote_plus(key_from_event, encoding='utf-8')
16     file_name = raw_key.split('/')[-1]
17
18     print(f"Incoming file: {raw_key}")
19
20     try:
21         # Download raw CSV from S3
22         response = s3.get_object(Bucket=bucket_name, Key=raw_key)
23         raw_csv = response['Body'].read().decode('utf-8').splitlines()
24         print(f"Successfully read file from S3: {file_name}")
```

processed/

Copy S3 URL

Objects (1)

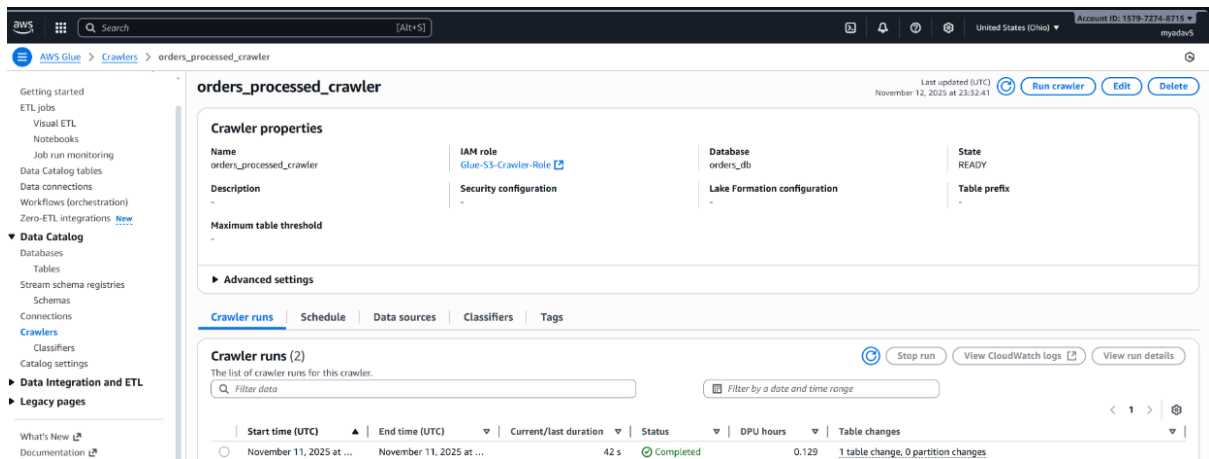
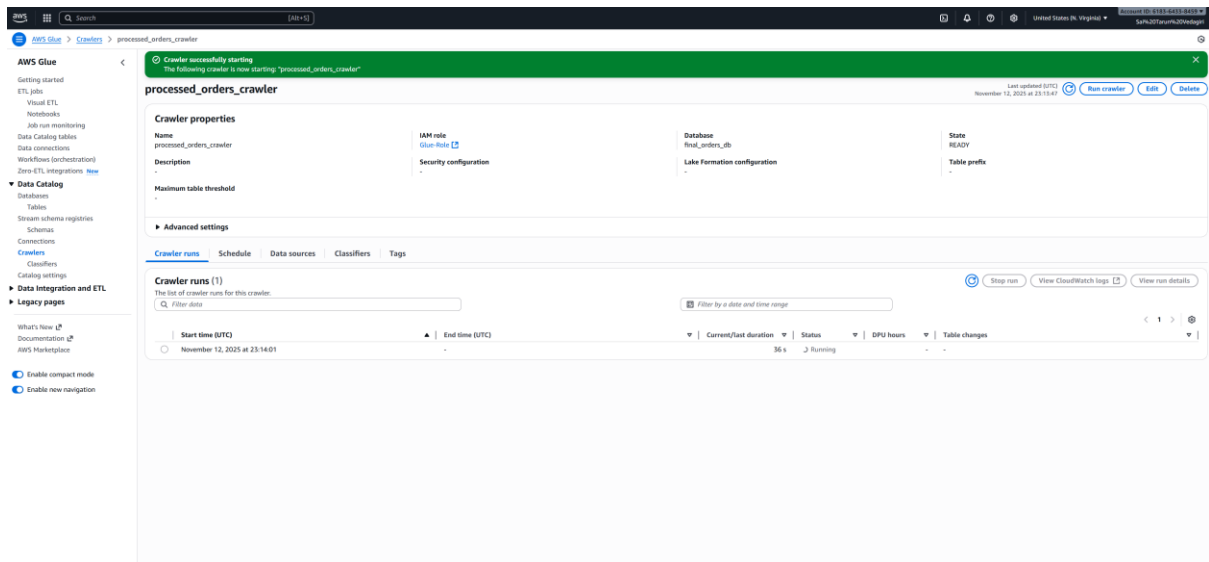
Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Show versions

Name	Type	Last modified	Size	Storage class
Unsaved/	Folder	-	-	-

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Query 1: Top-Selling Products

Business Question: Which products generate the most revenue and sales volume?

SELECT

productid,

COUNT(orderid) AS total_orders,

SUM(amount) AS total_revenue,

ROUND(AVG(amount), 2) AS avg_order_value

FROM processed

GROUP BY productid

ORDER BY total_revenue DESC

LIMIT 10;

Insight: Identifies the best-performing products to prioritize for inventory, promotions, or restocking.



Query 2: Revenue by Region or Country

Business Question: Which regions or countries contribute most to total revenue?

SELECT

region,

COUNT(orderid) AS total_orders,

SUM(amount) AS total_revenue,

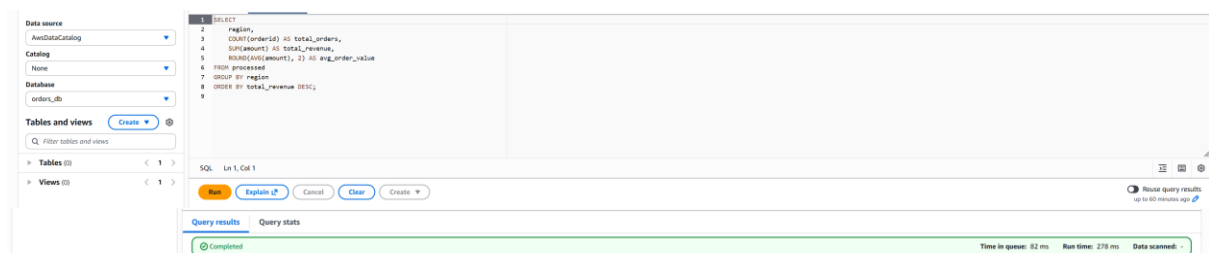
ROUND(AVG(amount), 2) AS avg_order_value

FROM processed

GROUP BY region

ORDER BY total_revenue DESC;

Insight: Helps target high-performing regions for marketing and expansion while identifying underperforming areas.



Query 3: Payment Method Performance

Business Question: Which payment methods are most commonly used and generate the most revenue?

SELECT

paymentmethod,

COUNT(orderid) AS total_orders,

SUM(amount) AS total_revenue,

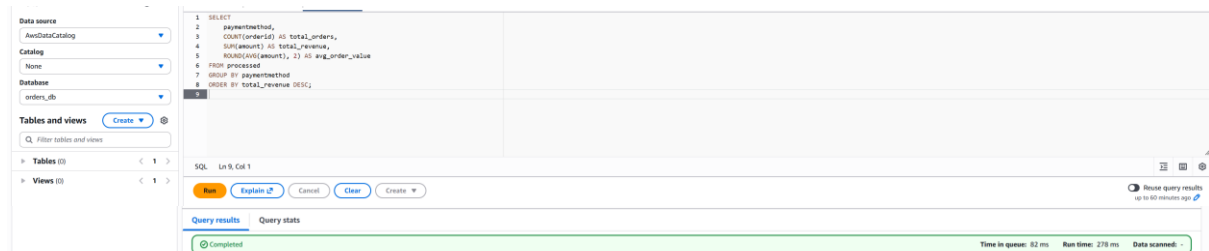
ROUND(AVG(amount), 2) AS avg_order_value

FROM processed

GROUP BY paymentmethod

ORDER BY total_revenue DESC;

Insight: Assists in understanding customer preferences and optimizing payment options to improve checkout experience.



The screenshot displays a SQL query editor interface. On the left, there is a sidebar with 'Data source' set to 'AmazonCatalog', 'Catalog' set to 'None', and 'Database' set to 'orders_db'. Below this, 'Tables and views' are listed, including 'Tables (0)' and 'Views (0)'. The main area shows the SQL query:

```
1 SELECT
2   paymentmethod,
3   COUNT(orderid) AS total_orders,
4   SUM(amount) AS total_revenue,
5   ROUND(AVG(amount), 2) AS avg_order_value
6 FROM processed
7 GROUP BY paymentmethod
8 ORDER BY total_revenue DESC;
```

 Below the query, there are buttons for 'Run', 'Explain', 'Cancel', 'Clear', and 'Create'. The 'Run' button is highlighted. Below the buttons, there is a 'Query results' tab and a 'Query stats' tab. The 'Query results' tab is active, showing a green bar with a 'Completed' status. The 'Query stats' tab shows 'Time in queue: 92 ms', 'Run time: 278 ms', and 'Data scanned:'. There is also a 'Reuse query results' button and a link to 'up to 60 minutes ago'.