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## 📦 Setup Instructions

### Step 1 – DynamoDB

- Table name: `Orders`

- Partition key: `OrderId` (String)

- Additional attributes: `userId`, `itemName`, `quantity`, `status`, `timestamp`

- Add data manually or via Lambda

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### Step 2 – SNS Topic

- Name: `OrderTopic`

- Type: Standard

- Add subscription: SQS → `OrderQueue`

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### Step 3 – SQS Queue

- Name: `OrderQueue` (Standard)

- Create DLQ first: `OrderDLQ` (Standard)

- Set DLQ in OrderQueue with maxReceiveCount = 3

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### Step 4 – Lambda Function

- Name: `ProcessOrderLambda`

- Runtime: Python 3.12

- Trigger: SQS (`OrderQueue`)

- Permissions: Add `AmazonDynamoDBFullAccess` and `AmazonSQSFullAccess`

```python

import json

import boto3

dynamodb = boto3.resource('dynamodb')

table = dynamodb.Table('Orders')

def lambda\_handler(event, context):

for record in event['Records']:

message = json.loads(record['body'])

table.put\_item(Item={

'orderId': message['orderId'],

'userId': message['userId'],

'itemName': message['itemName'],

'quantity': message['quantity'],

'status': message['status'],

'timestamp': message['timestamp']

})

print(f"✅ Order {message['orderId']} saved successfully.")