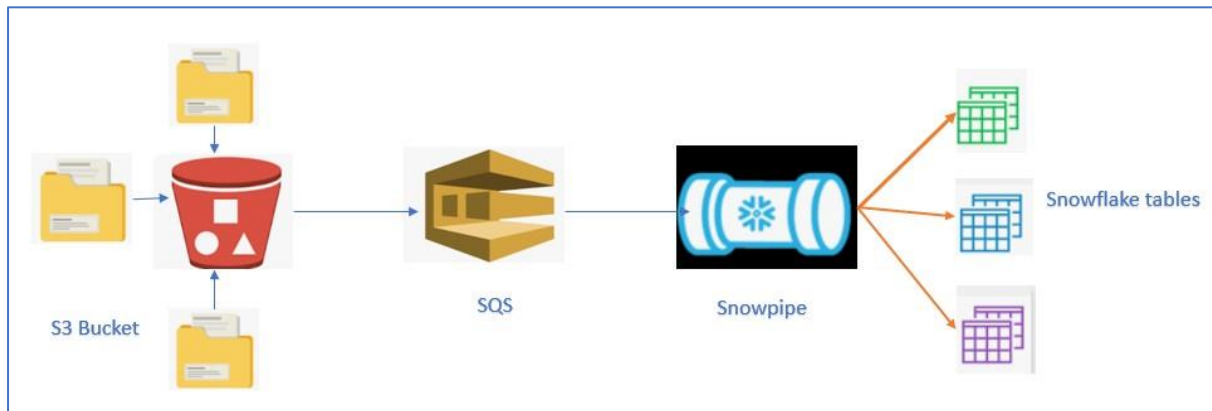# Snowpipe: Load multiple tables with same bucket

During this post we will configure the Snowpipe on bucket, which in turn will load data into multiple tables. Consider the scenario business has allowed to create a consolidated bucket. Under this bucket we would be having separate folders based on the business domain. Say Sales team contributes to sales folder, Marketing team feeds to marketing and Finance will ingest file to finance folder.

We have three different tables in Snowflake mapped to these business domains folders. As per ask if any team ingest file to respective folder, load should trigger and ingest data into the respective table. Business wants Snowpipe Configuration on the bucket itself. Notifications on this bucket should identify the POST/PUT event to the respective folder and trigger the load.

In other words there should be a single SQS Notification but trigger the Snowpipe accordingly based on the event happens to the folder.

We have businessportfolio bucket and under this there are 3 different folders.

Prerequisites:

Firstly, Storage Integration: **s3_int**

File format: **csv_format**

Stage: **ext_csv_stage**

Tables**: CUST_SALES, CUST_MARKETING, CUST_FINANCE**

Moreover, now we have created the PIPES to load data into respective tables:

First Pipe:

```
create or replace pipe demo_db.public.sales auto_ingest=true as
copy into cust_sales
from @demo_db.public.ext_csv_stage/sales
on_error = CONTINUE;
```

Second Pipe:

```
create or replace pipe demo_db.public.finance auto_ingest=true as

copy into cust_finance

from @demo_db.public.ext_csv_stage/finance

on_error = CONTINUE;
```

Finally, **Third pipe:**

```
create or replace pipe demo_db.public.marketing auto_ingest=true as

copy into cust_marketing

from @demo_db.public.ext_csv_stage/marketing

on_error = CONTINUE;

show pipes;
```

Once you perform SHOW PIPES,

We see the value in notification_channel is same for all three pipes. However, This is beauty of SQS notification, these are tied to the bucket irrespective to the underlying folders.

name	database_name	schema_name	definition	notification_channel
FINANCE	DEMO_DB	PUBLIC	copy into cu...	arn:aws:sqs:us-east-1:741613821325:sf-snowpipe-AIDA2ZK5A3WGRSSMF4PPH-KI36t5HCBdc72qb3T0LAHA
MARKETING	DEMO_DB	PUBLIC	copy into cu...	arn:aws:sqs:us-east-1:741613821325:sf-snowpipe-AIDA2ZK5A3WGRSSMF4PPH-KI36t5HCBdc72qb3T0LAHA
SALES	DEMO_DB	PUBLIC	copy into cu...	arn:aws:sqs:us-east-1:741613821325:sf-snowpipe-AIDA2ZK5A3WGRSSMF4PPH-KI36t5HCBdc72qb3T0LAHA

Notification_Channel

After that, configure the S3 bucket with notification_channel value.

Destination

ⓘ Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more ↗

Destination
Choose a destination to publish the event. Learn more ↗

○ Lambda function
Run a Lambda function script based on S3 events.

○ SNS topic
Send notifications to email, SMS, or an HTTP endpoint.

● SQS queue
Send notifications to an SQS queue to be read by a server.

Specify SQS queue

○ Choose from your SQS queues

● Enter SQS queue ARN

SQS queue

arn:aws:sqs:us-east-1:741613821325:sf-snowpipe-AIDA2ZK5A3WGRSSMF4PPH-Kl36t

Snow pipe notification

Now we first upload the file sales folder:

Destination	Succeeded
s3://businessportfolio/sales/	⊘ 1 file, 3.6 KB (100.00%)

Files and folders | Configuration

Files and folders (1 Total, 3.6 KB)

Q Find by name

Name ▲	Folder ▽	Type
Customer_Invc_Sales.csv	-	text/csv

Similarly uploaded file to the finance and marketing folder. finance and marketing
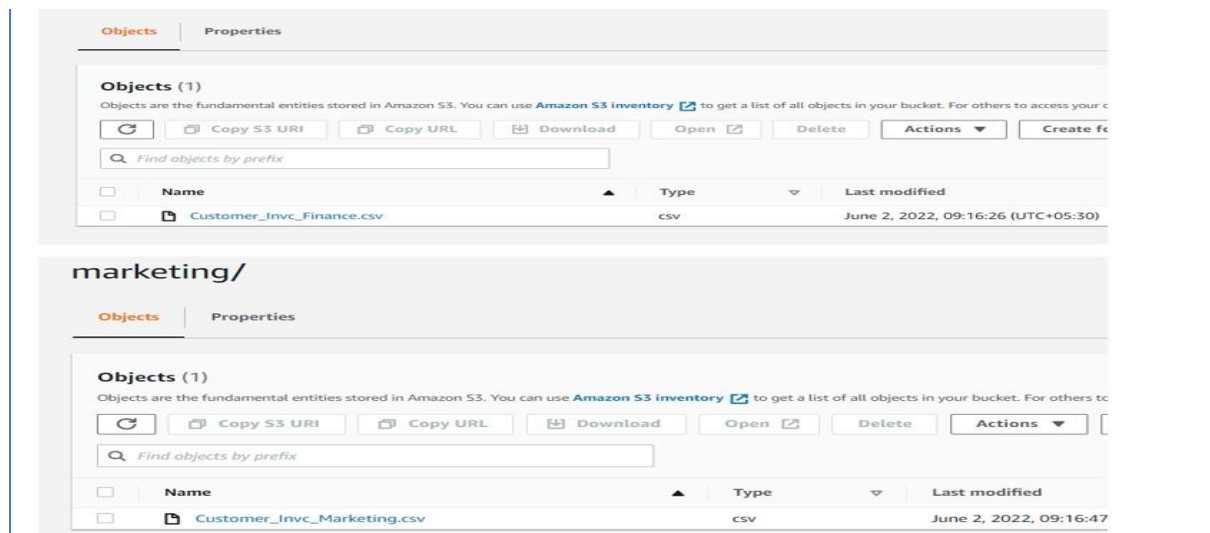
Finally, Snowpipe triggered and tables got loaded successfully tables loaded

In conclusion, verify the Snowpipe history.

FILE_NAME	STAGE_LOCATION	LAST_LOAD_TIME	ROW_COUNT	ROW_PARSED	STATUS	TABLE_NAME	PIPE_NAME
/Customer_Invc_Sales.csv	s3://businessportfolio/s...	2022-06-01 20:49:47.468 -0700	52	52	Loaded	CUST_SALES	SALES
/Customer_Invc_Marketing.csv	s3://businessportfolio/...	2022-06-01 20:47:27.917 -0700	52	52	Loaded	CUST_MARK...	MARKETING
/Customer_Invc_Finance.csv	s3://businessportfolio/fi...	2022-06-01 20:47:27.919 -0700	52	52	Loaded	CUST_FINA...	FINANCE

Snowpipe history