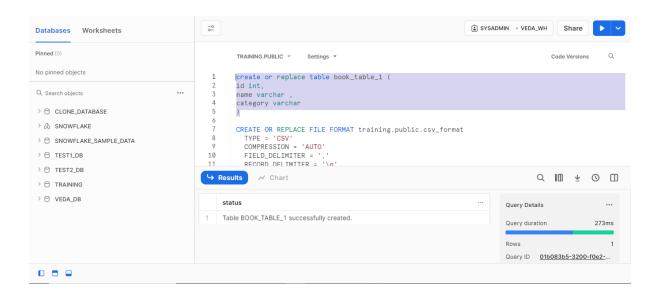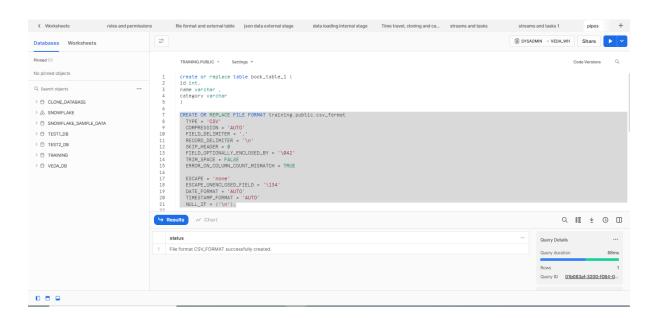# Pipes in Snowflake

1. Pipes :-

Automatic loading of data using copy into command.
Pipes mainly help automate data transfers and keep data moving in and out of Snowflake.

- **Firstly, I have created a table called Book_table**

- **Now I have created a file_format**

- **Then I have created an aws_external_stage with pipes folder in order to upload my csv files into it so that it can be loaded or copied into snowflake tables using pipe.**

- **Now I am creating an event configuration using SQS so that whenever the files available in the aws_external_stage it immediately sends the notification to snowflake**

- **Placing the files in s3 bucket in pipes folder**

- **Listing the files in external stage**
  I have placed two csv files called book1.csv and book2.csv

- **I have created a pipe successfully**

```
27  list @training.public.AWS_EXTERNAL_STAGE_pipes;
28
29
30  create pipe book_pipe
31  auto_ingest = true as
32  copy into book_table_1
33  from @aws_external_stage_pipes
34  file_format = 'csv_format';
35
36  show pipes;
37
38
39
40
```

	created_on	name	database_name	schema_name	definit
1	2023-11-22 21:10:41.263 -0800	BOOK_PIPE	TRAINING	PUBLIC	copy ir

Query Details

Query duration 37ms

Rows 1

Query ID 01b083b7-3200-f0da-...
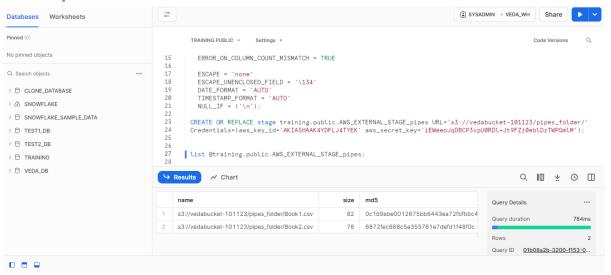
• Aws sending notification to snowflake


```
38
39
40
41
42
43
44
45  select * from book_table_1;
46
47  select system$pipe_status('book_pipe');
48
49  alter pipe book_pipe refresh;
50
51
```

	File	Status
1	Book1.csv	SENT
2	Book2.csv	SENT

Query Details

Query duration 1.5s

Rows 2

Query ID 01b08a32-3200-f163-0...

• Now data getting loaded into the book_table

```
39
40
41
42
43
44
45  select * from book_table_1;
46
47  select system$pipe_status('book_pipe');
48
49  alter pipe book_pipe refresh;
50
51
52  CREATE OR REPLACE TASK pipe_task
```

	ID	NAME		CATEGORY
1	6	juba		hardwork
2	7	sainath		curious
3	8	devi		calm
4	9	chandu		beauty

Query Details

Query duration 1.7s

Rows 10

Query ID 01b08a38-3200-f14b-0...

Status of pipe is in running state

Databases   Worksheets

Pinned (0)

No pinned objects

🔍 Search objects   ...

> 🗄 CLONE_DATABASE
> ◈ SNOWFLAKE
> 🗄 SNOWFLAKE_SAMPLE_DATA
> 🗄 TEST1_DB
> 🗄 TEST2_DB
> 🗄 TRAINING
> 🗄 VEDA_DB

👤 SYSADMIN • VEDA_WH   Share   ▶ ⌄

TRAINING.PUBLIC ▾   Settings ▾   Code Versions   🔍

```
39
40
41
42
43
44
45  select * from book_table_1;
46
47  select system$pipe_status('book_pipe');
48
49  alter pipe book_pipe refresh;
50  alter pipe book_pipe set pipe_execution_Paused = true
51  alter pipe book_pipe set pipe_execution_Paused = false
52
```

↳ Results   ∿ Chart   🔍 ▥ ⬇ 🕐 ▤

	SYSTEM$PIPE_STATUS('BOOK_PIPE')
1	{"executionState":"RUNNING","pendingFileCount":0,"lastIngestedTimestamp":"2023-11-23T05:11:00.604Z",

Query Details   ...

Query duration   45ms

Rows   1

Query ID   01b08a3a-3200-f163-0...

Now I am pausing the pipe

Databases   Worksheets

Pinned (0)

No pinned objects

🔍 Search objects   ...

> 🗄 CLONE_DATABASE
> ◈ SNOWFLAKE
> 🗄 SNOWFLAKE_SAMPLE_DATA
> 🗄 TEST1_DB
> 🗄 TEST2_DB
> 🗄 TRAINING
> 🗄 VEDA_DB

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52
```

↳ Results   ∿ Chart   🔍 ▥ ⬇ 🕐 ▤

	SYSTEM$PIPE_STATUS('BOOK_PIPE')
1	{"executionState":"PAUSED","pendingFileCount":0,"lastIngestedTimestamp":"2023-11-23T05:11:00.604Z","l

Query Details   ...

Query duration   44ms

Rows   1

Query ID   01b08a3b-3200-f14b-0...