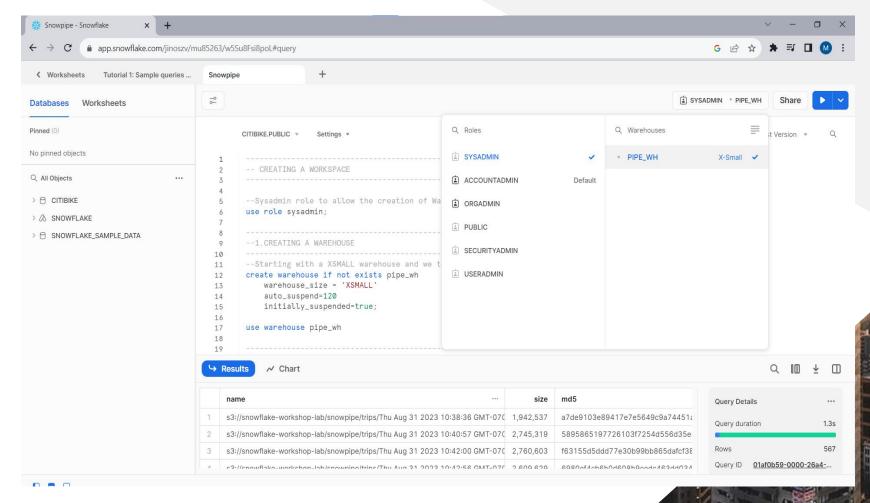


# CREATION OF APPLICATIONS WITH REAL-TIME DATA INGESTION



### 1. Creation of a Warehouse

Optimizing Data Warehouse Performance





- Creating a data warehouse named "pipe\_wh."
- Starting with an "XSMALL" warehouse size.

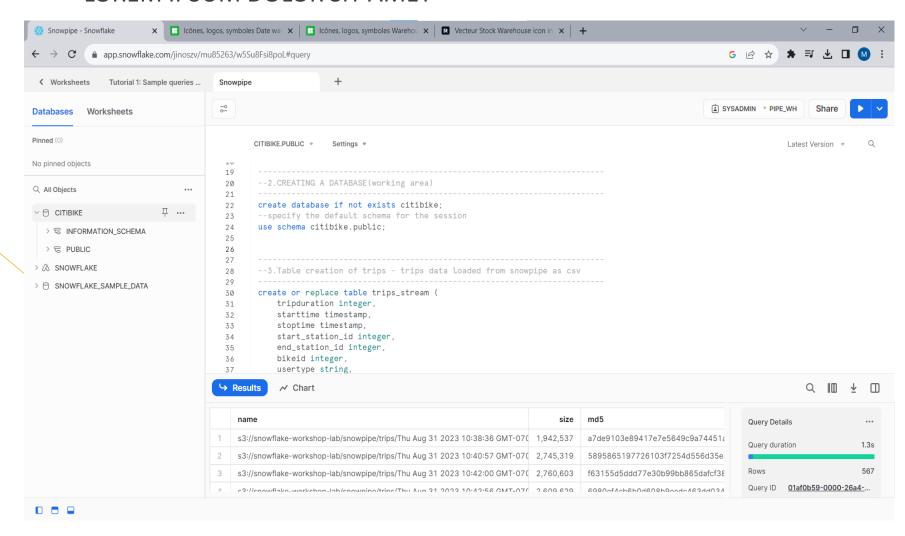
• Setting auto-suspend to 120 minutes.

Initially suspending the warehouse.

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### 2. Creation of a Database

#### LOREM IPSUM DOLOR SIT AMET

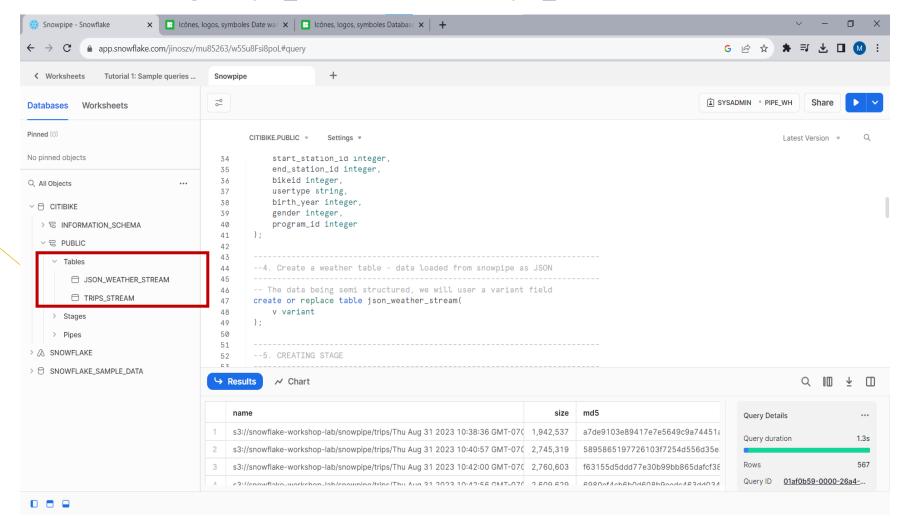




- Creating a database named "citibike" if it doesn't already exist.
- Specifying the default schema for the session as "citibike.public."

### 3. Creation of Tables

Creating trips\_stream and trips\_stream tables

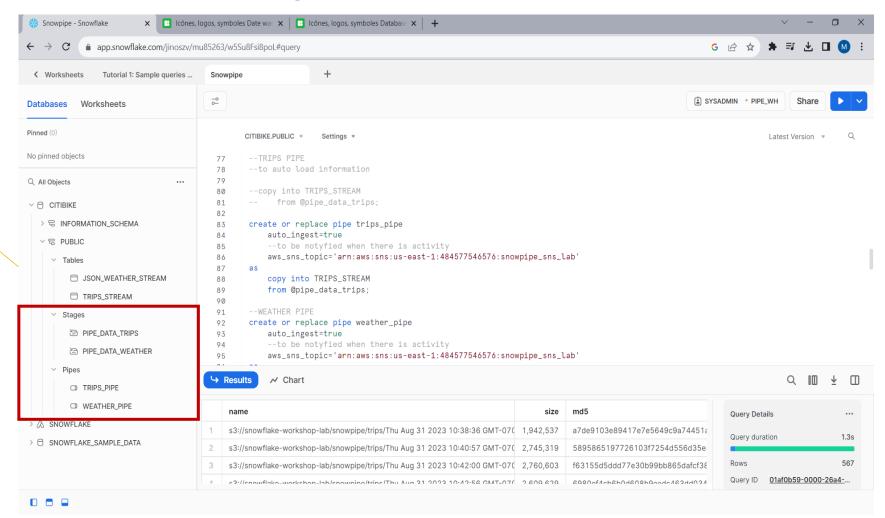




- The trips\_stream table captures information about bike trips, including user details and station IDs.
- The json\_weather\_stream table is designed to handle semi-structured weather data in JSON format.
- Using a variant field allows flexibility in handling diverse weather data structures.

## 4. Creation of Stages and pipes

### Efficient Data Management and Automation



#### Trips Data Stage:

- Stores CSV-formatted trip data.
- Location: 's3://snowflake-workshoplab/snowpipe/trips/'

#### Weather Data Stage:

- Stores JSON-formatted weather data.
- Location: 's3://snowflake-workshop-lab/weather/'
- Use list commands to browse stored files in each stage.

#### Trips Pipe:

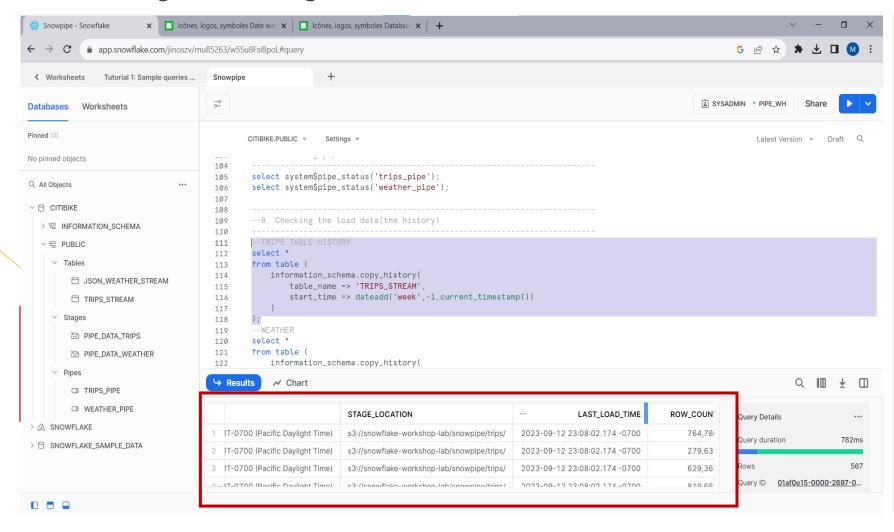
- Automatically loads trip data into TRIPS\_STREAM.
- Monitors activity through AWS SNS.

#### Weather Pipe:

- Automatically loads weather data into json\_weather\_stream.
- Monitors activity through AWS SNS.
- Use of show pipes to view and manage data loading processes.

## 5. Checking the history after using pipes

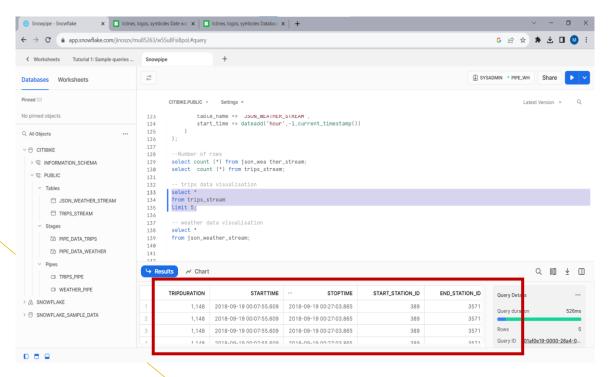
### **Tracking Data Loading Activities**

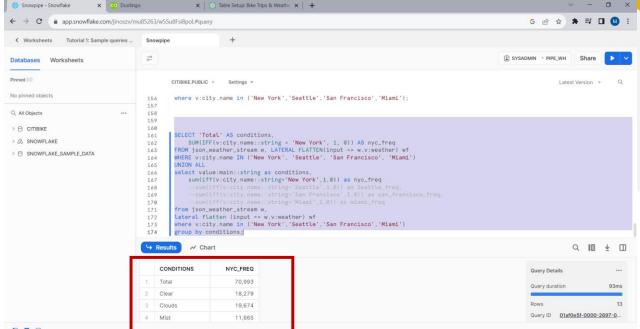


- This SQL query retrieves the copy history of the 'TRIPS\_STREAM' table.
- It allows you to monitor and review recent data loading activities.
- The START\_TIME parameter is set to the past week for a specific time frame.

# 6. Checking data in our trip Table

Queries on Structured and Unstructured Data







## Thanks.

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