Semi-Structured Data

Data loading from AWS S3 to Snowflake through SnowPipe

Steps For Migration

1.Creating AWS S3 bucket

2.Creating Database , Schema & Table in SnowFlake

3.Creating File Format

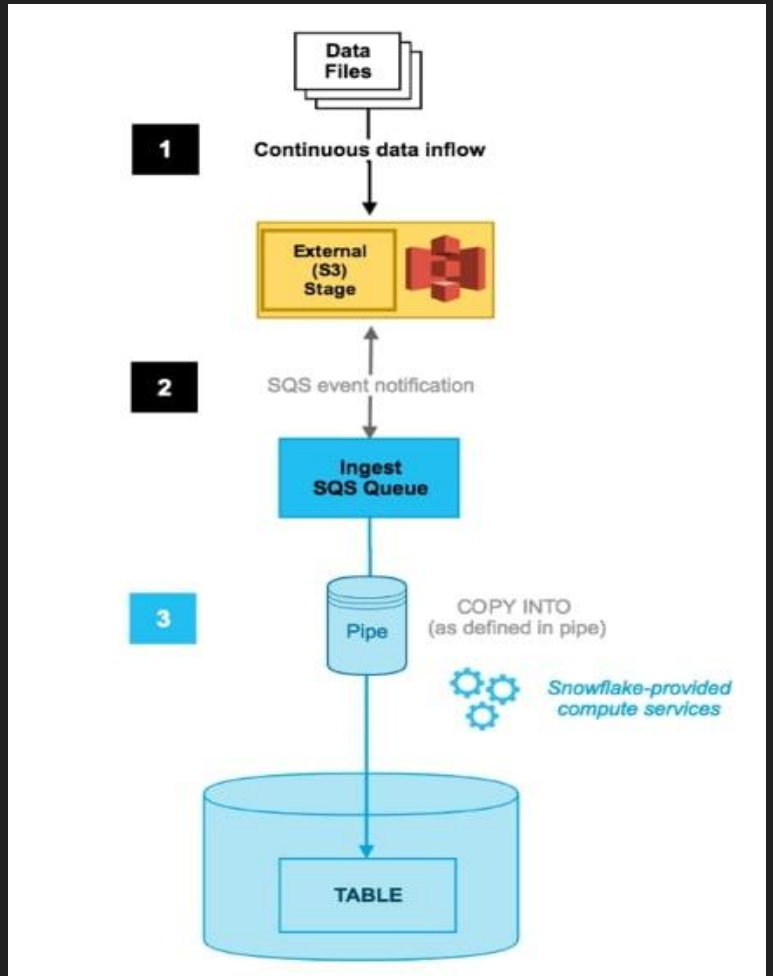
4.Creating Named Stage

5.Creating Pipe

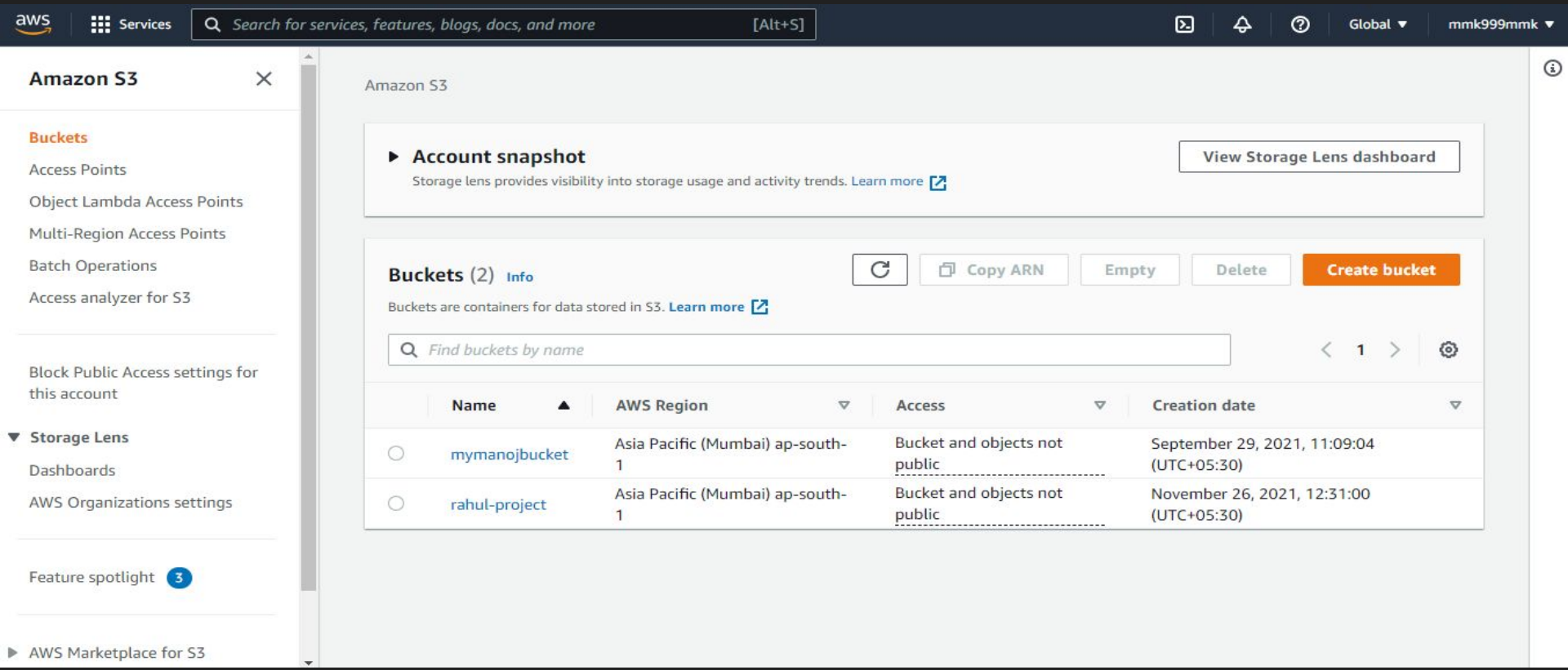
6.Setting notification in AWS

7. Converting loaded data into Relational Table

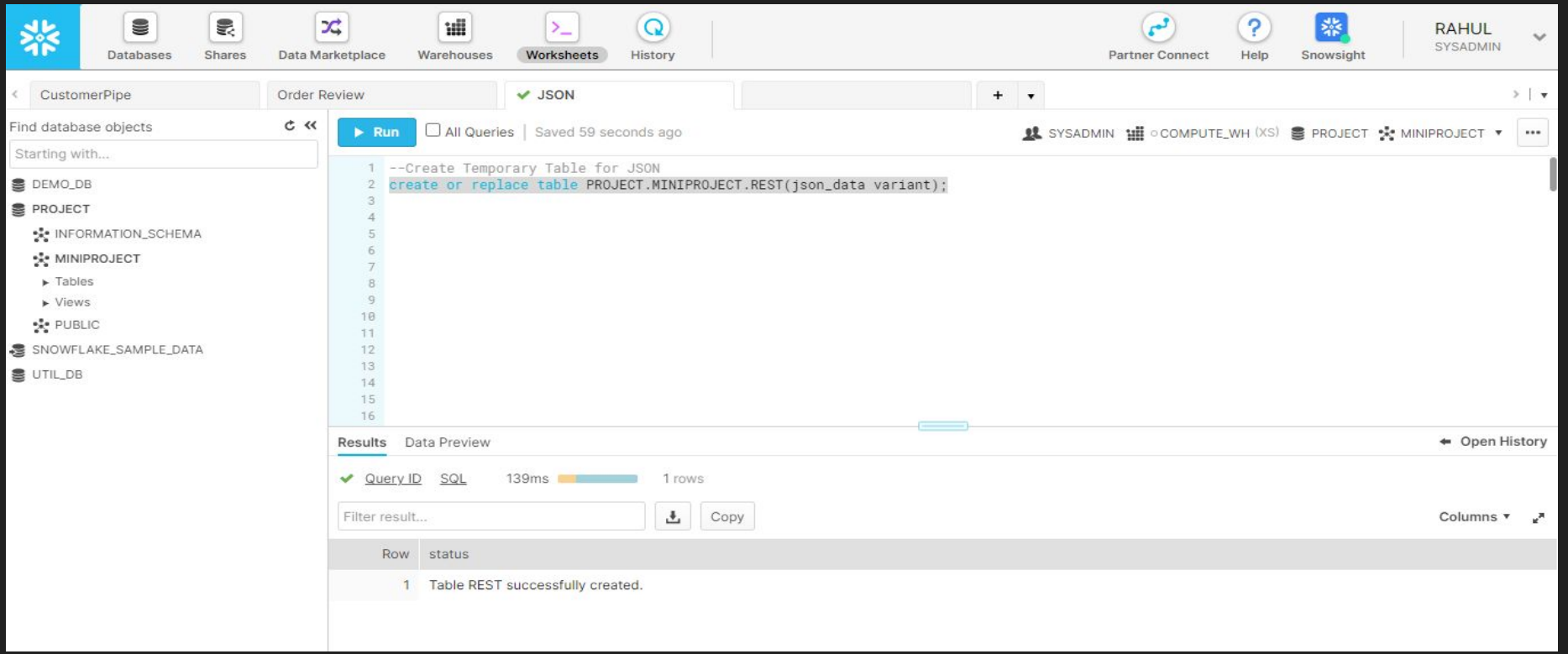
Architecture Diagram Of Snowpipe



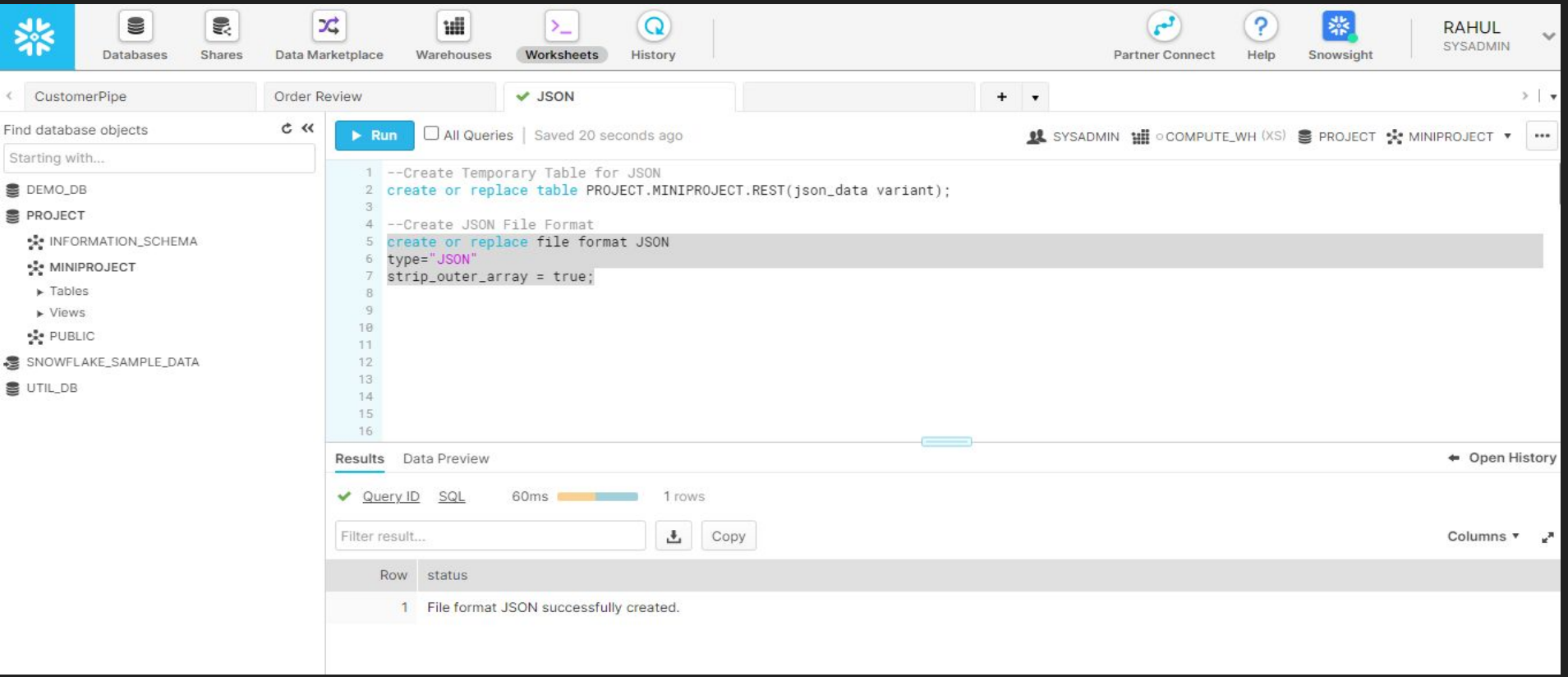
Creating Bucket in AWS S3



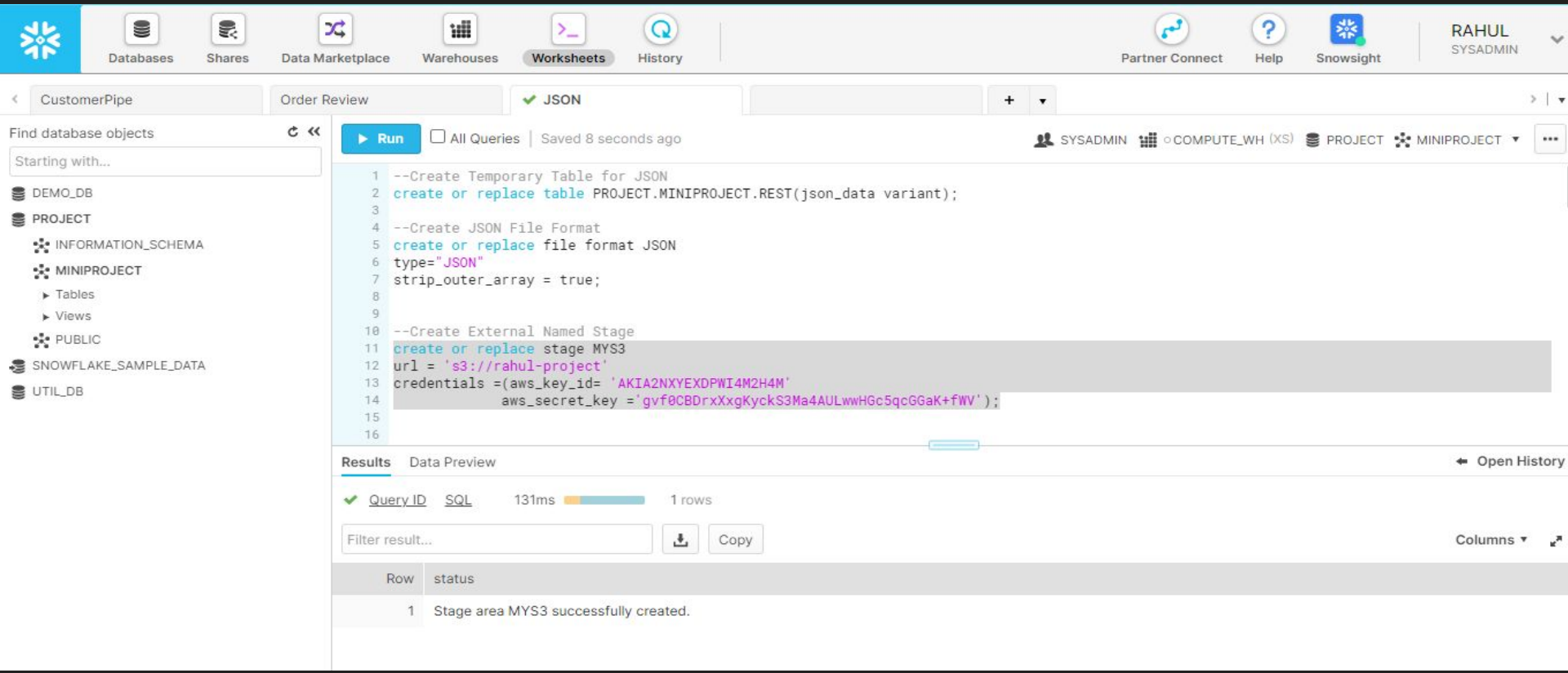
Create Database , Schema and Table



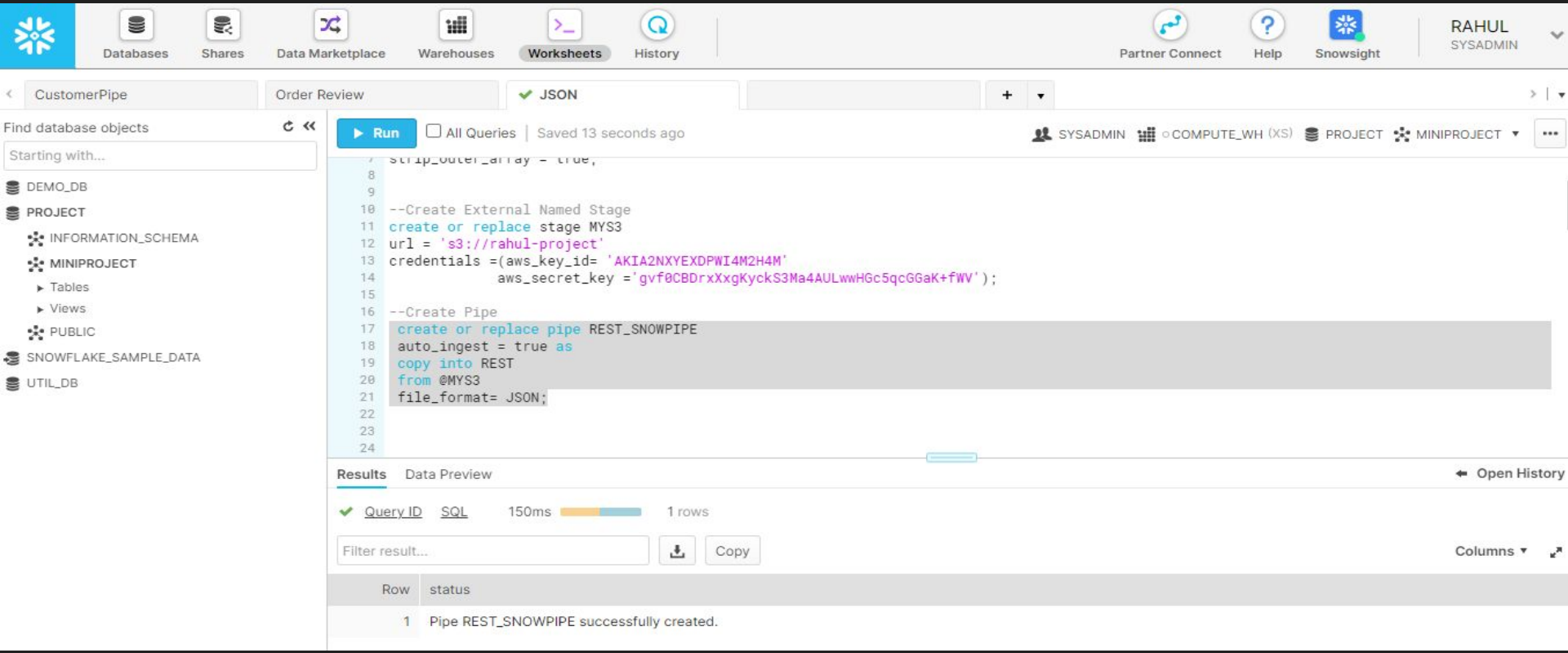
Create File Format



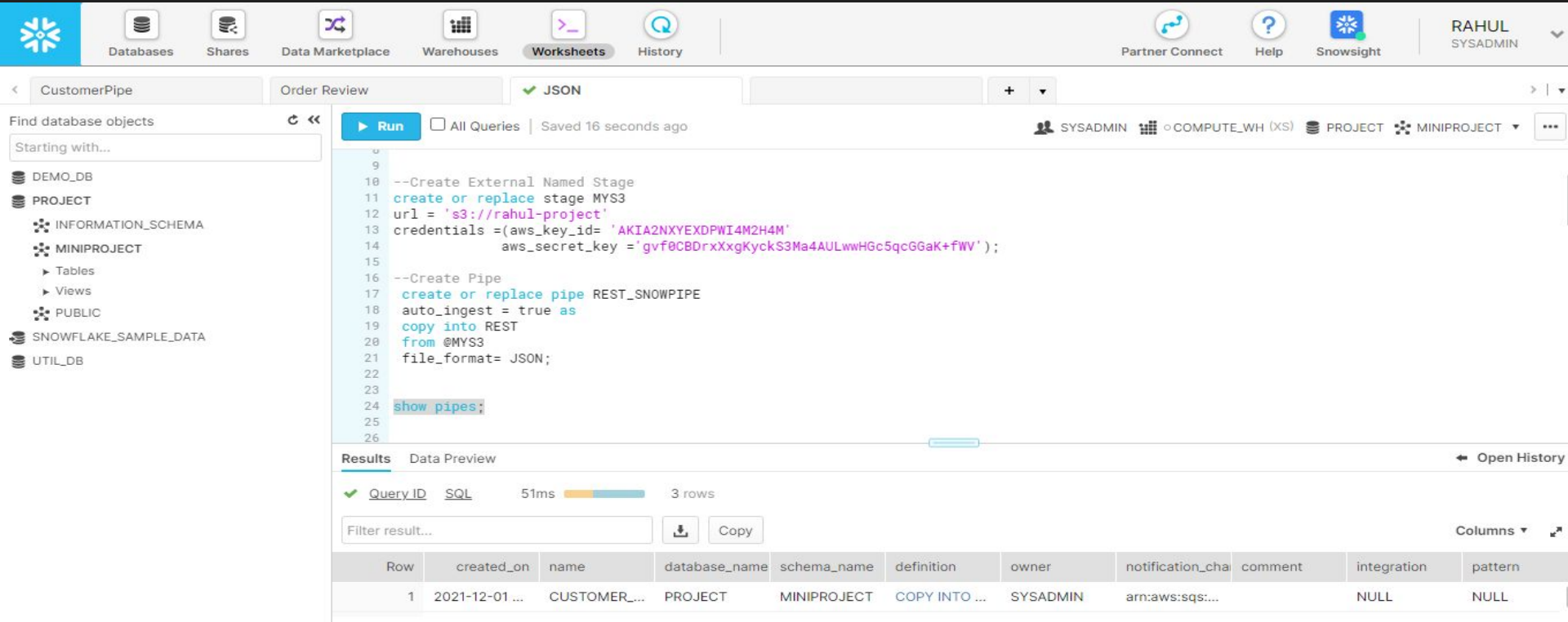
Create Named Stage



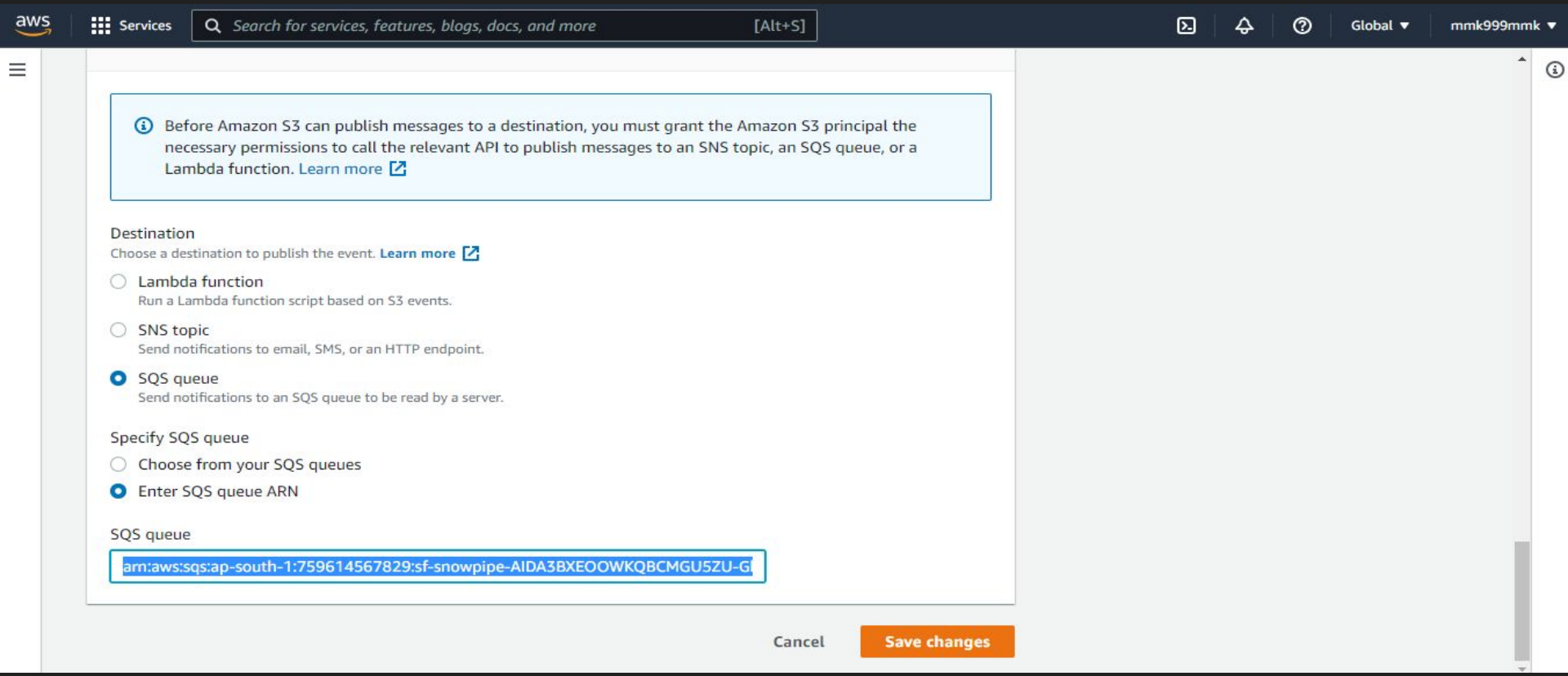
Create Pipe


Databases
Shares
Data Marketplace
Warehouses
Worksheets
History
Partner Connect
Help
Snowsight
RAHUL
SYSADMIN
CustomerPipe
Order Review
JSON
Find database objects
Starting with...
DEMO_DB
PROJECT
INFORMATION_SCHEMA
MINIPROJECT
Tables
Views
PUBLIC
SNOWFLAKE_SAMPLE_DATA
UTIL_DB
Run
All Queries
Saved 13 seconds ago
SYSADMIN
COMPUTE_WH (XS)
PROJECT
MINIPROJECT
strip_outer_array = true;
--Create External Named Stage
create or replace stage MYS3
url = 's3://rahul-project'
credentials =(aws_key_id= 'AKIA2NXYEXDPWI4M2H4M'
aws_secret_key ='gvf0CBDrxXxgKyckS3Ma4AULwwHGc5qcGGaK+fWV');
--Create Pipe
create or replace pipe REST_SNOWPIPE
auto_ingest = true as
copy into REST
from @MYS3
file_format= JSON;
Results
Data Preview
Open History
Query ID
SQL
150ms
1 rows
Filter result...
Copy
Columns
Row
status
1
Pipe REST_SNOWPIPE successfully created.

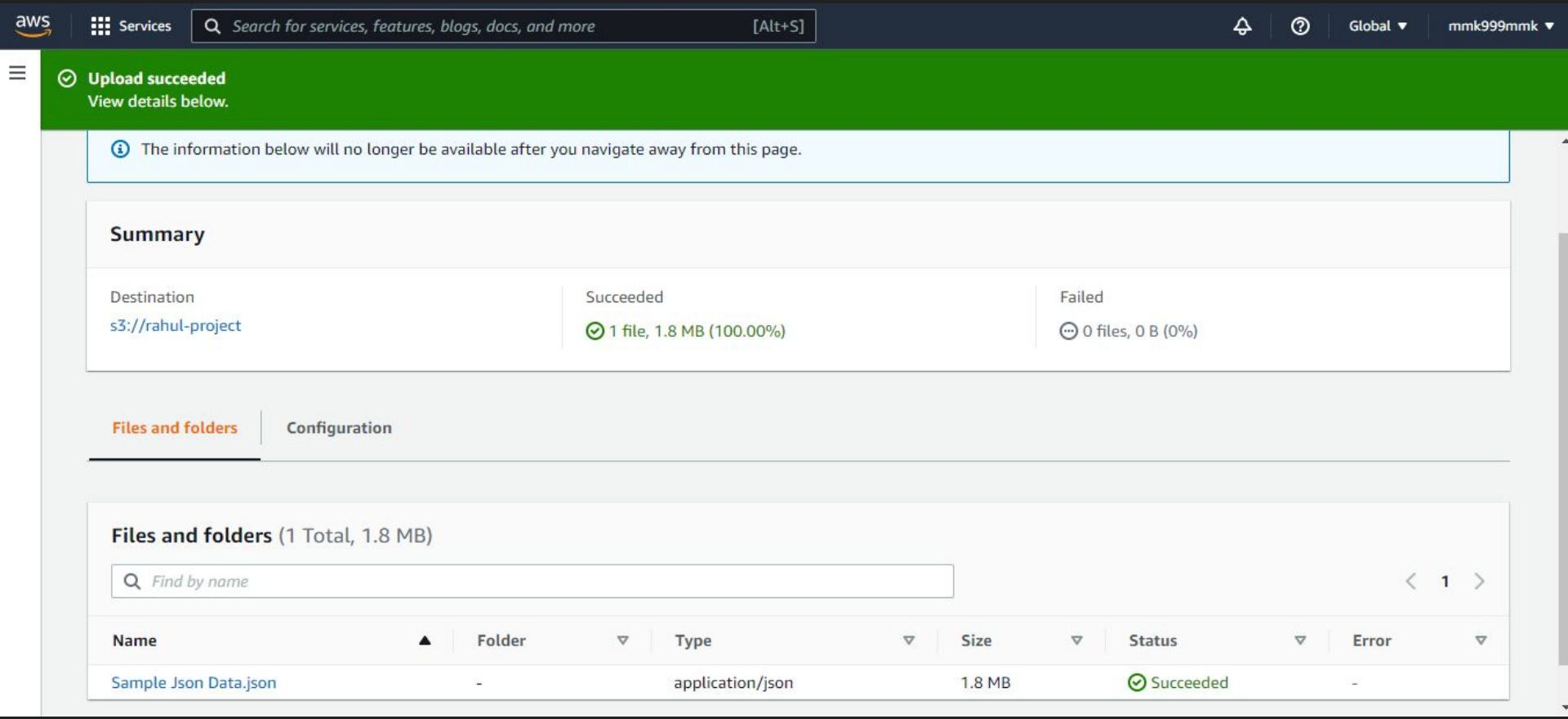
Use ‘show pipes’ command to see pipe and copy notification_channel



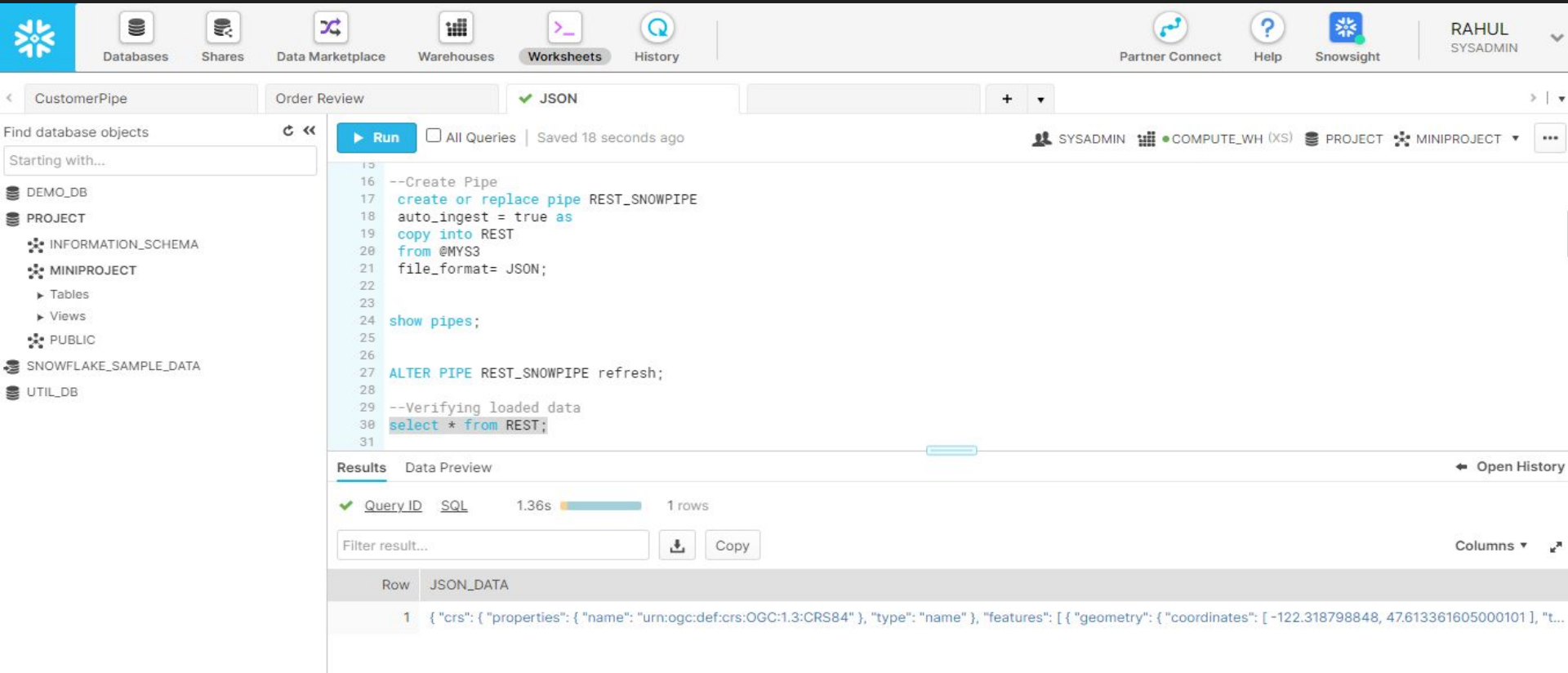
Setting Notification



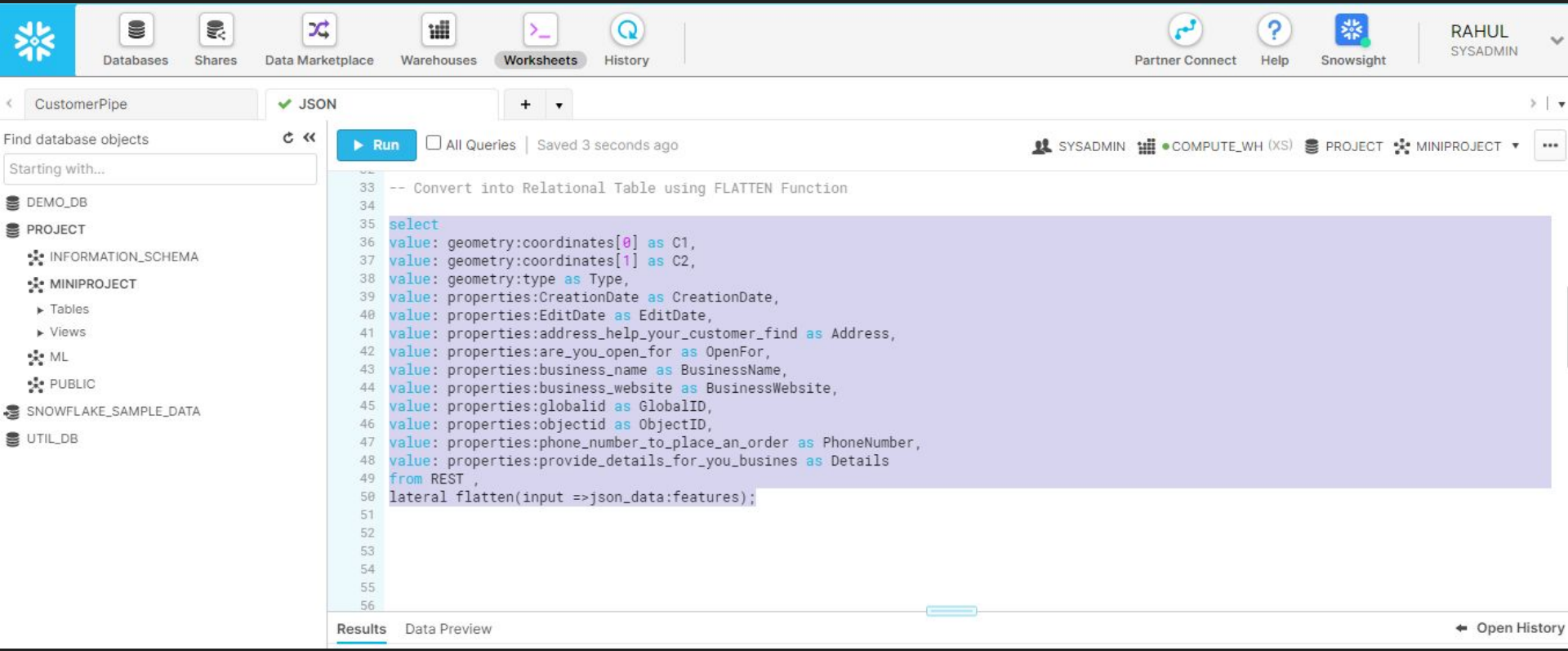
Uploading Data



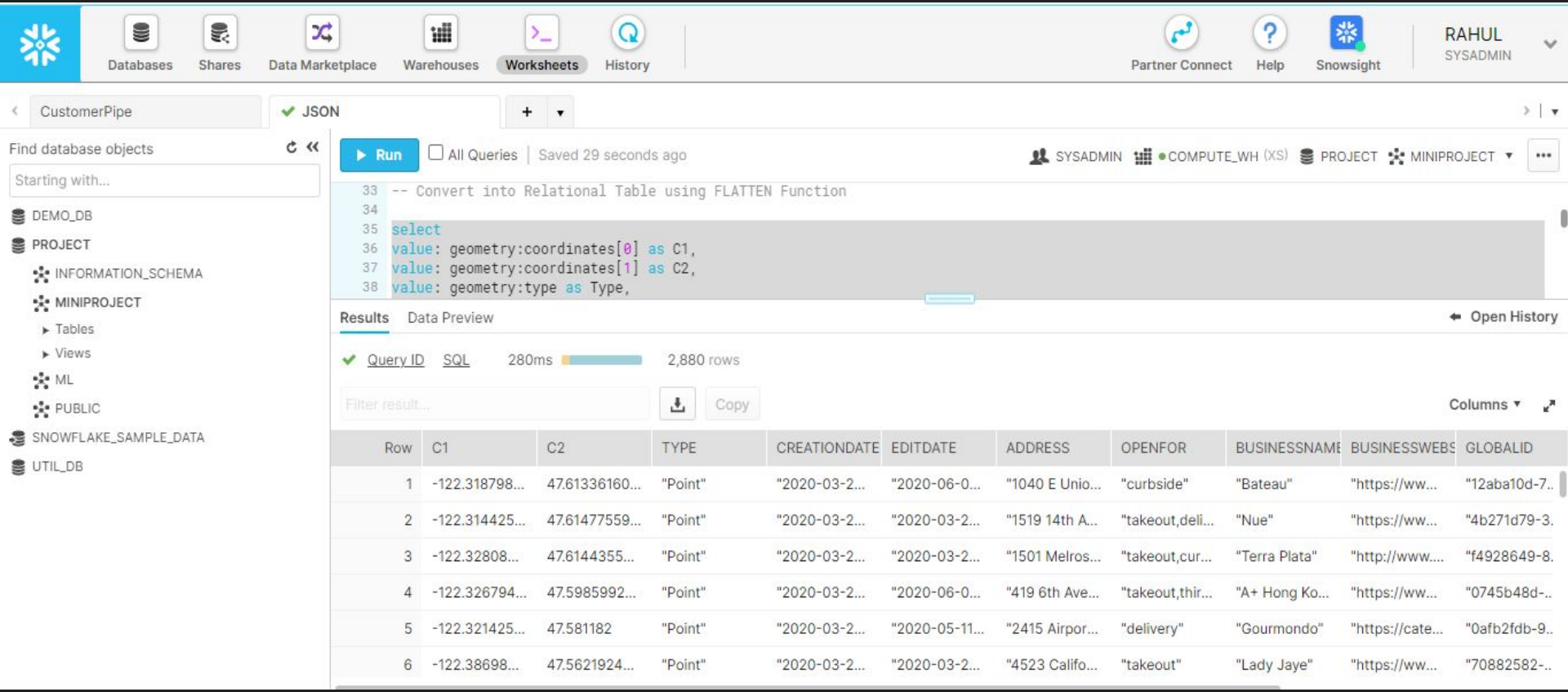
Verify loaded data



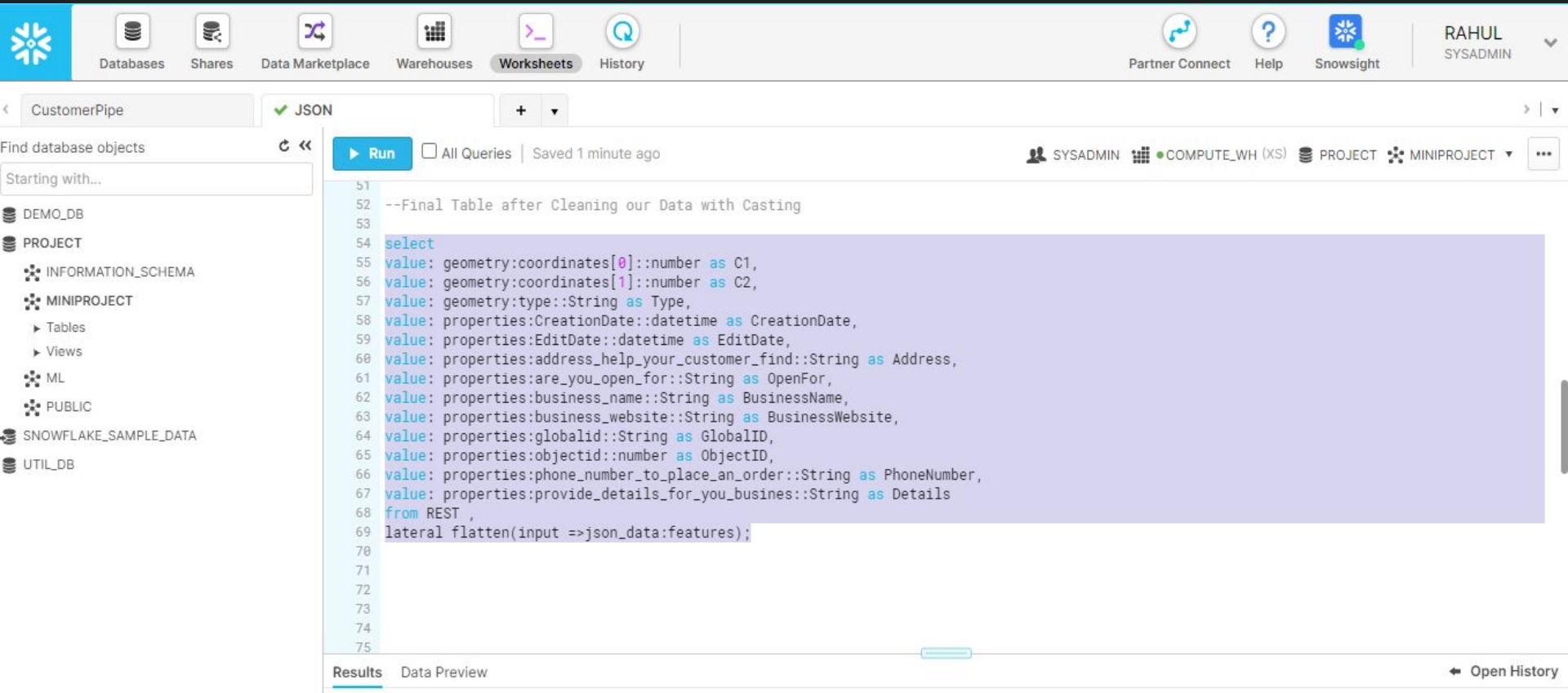
Transforming loaded data into Relational Table



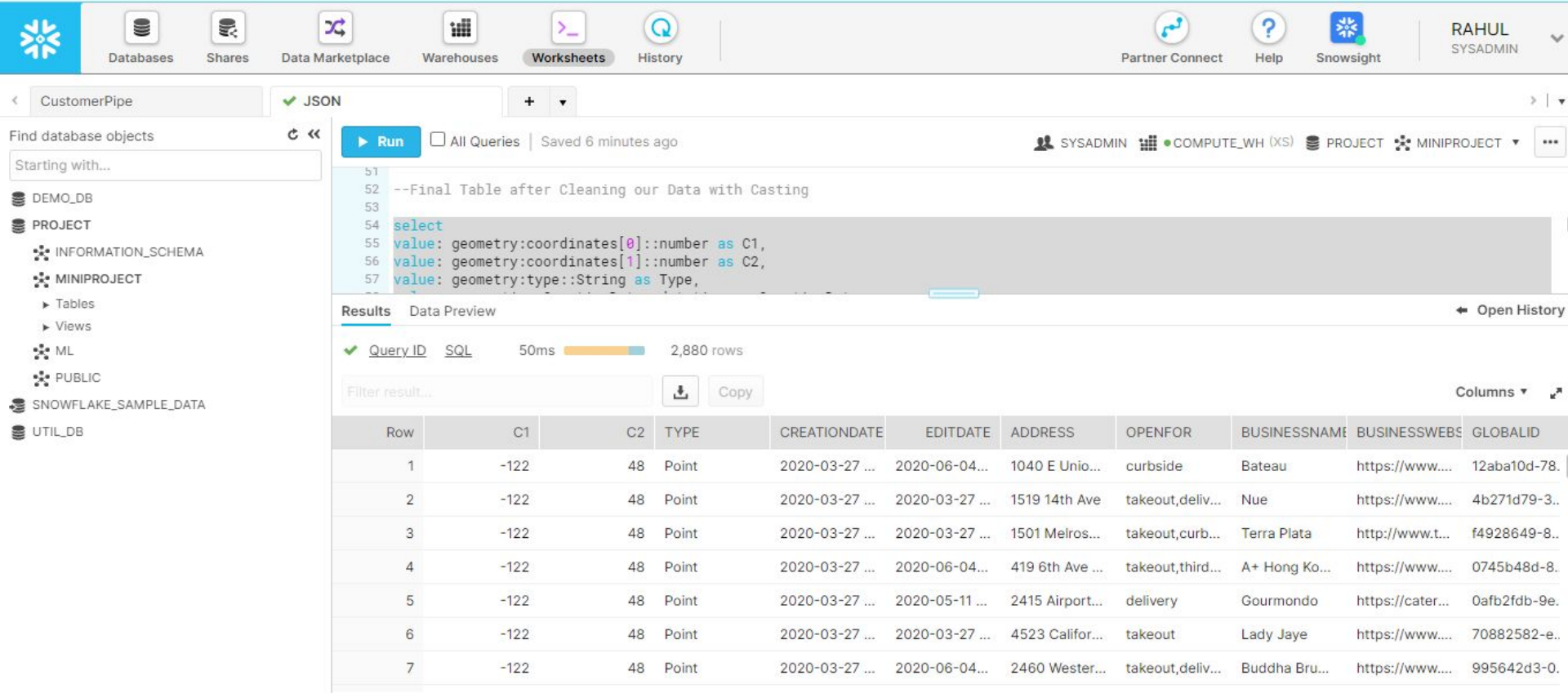
Relational Table



Cleaning Transformation



Final Relational Table



Row	C1	C2	TYPE	CREATIONDATE	EDITDATE	ADDRESS	OPENFOR	BUSINESSNAME	BUSINESSWEBS	GLOBALID
1	-122	48	Point	2020-03-27 ...	2020-06-04...	1040 E Unio...	curbside	Bateau	https://www....	12aba10d-78.
2	-122	48	Point	2020-03-27 ...	2020-03-27 ...	1519 14th Ave	takeout,deliv...	Nue	https://www....	4b271d79-3..
3	-122	48	Point	2020-03-27 ...	2020-03-27 ...	1501 Melros...	takeout,curb...	Terra Plata	http://www.t...	f4928649-8..
4	-122	48	Point	2020-03-27 ...	2020-06-04...	419 6th Ave ...	takeout,third...	A+ Hong Ko...	https://www....	0745b48d-8.
5	-122	48	Point	2020-03-27 ...	2020-05-11 ...	2415 Airport...	delivery	Gourmondo	https://cater...	0afb2fdb-9e.
6	-122	48	Point	2020-03-27 ...	2020-03-27 ...	4523 Califor...	takeout	Lady Jaye	https://www....	70882582-e..
7	-122	48	Point	2020-03-27 ...	2020-06-04...	2460 Wester...	takeout,deliv...	Buddha Bru...	https://www....	995642d3-0.