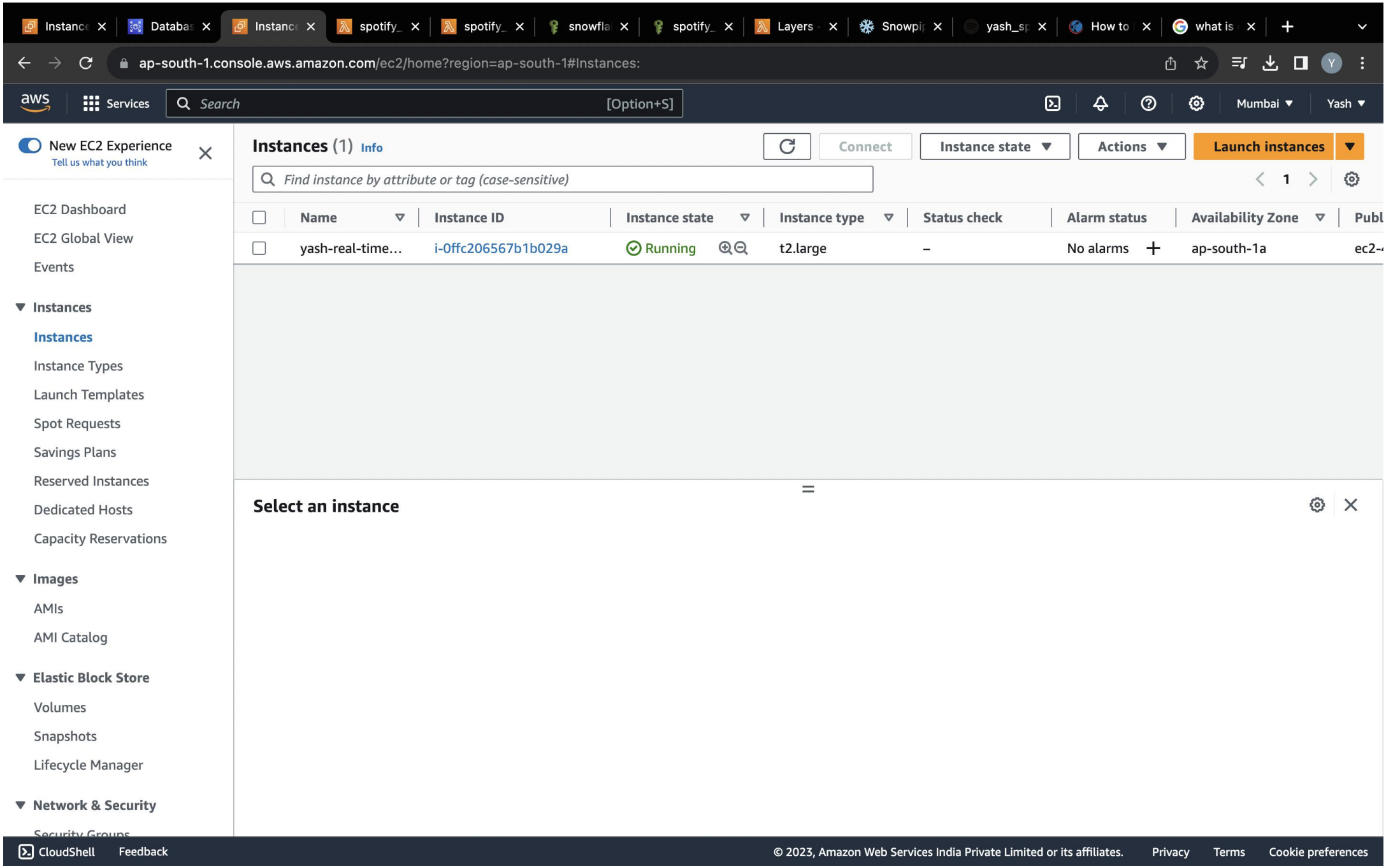
Instance
Databas
Instanc
spotify_
spotify_
snowfla
spotify_
Layers
Snowpi
yash_sp
How to
what is
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:
aws
Services
Search
[Option+S]
Mumbai
Yash
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Publ
yash-real-time...
i-0ffc206567b1b029a
Running
t2.large
–
No alarms
ap-south-1a
ec2-
Select an instance
CloudShell
Feedback
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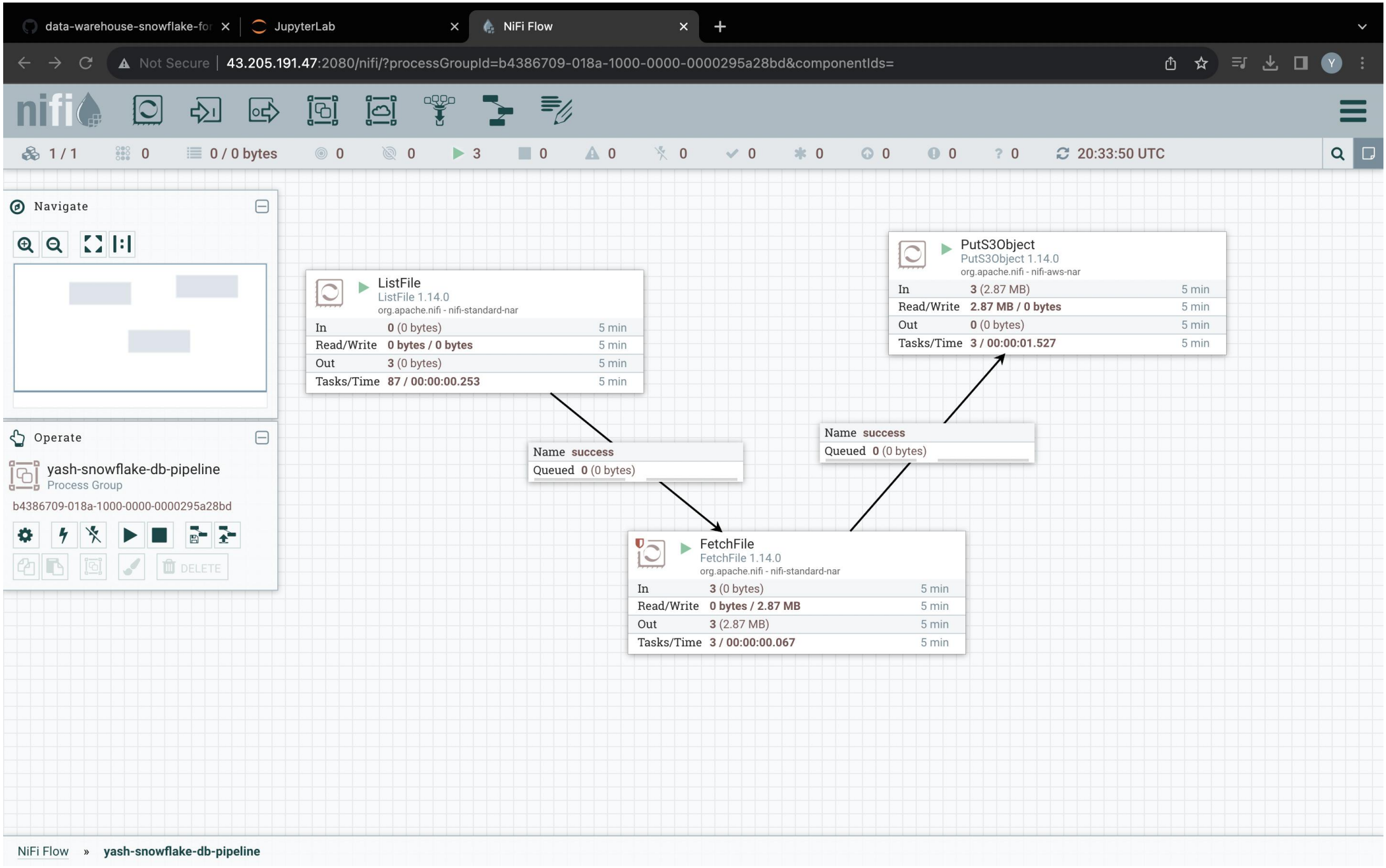
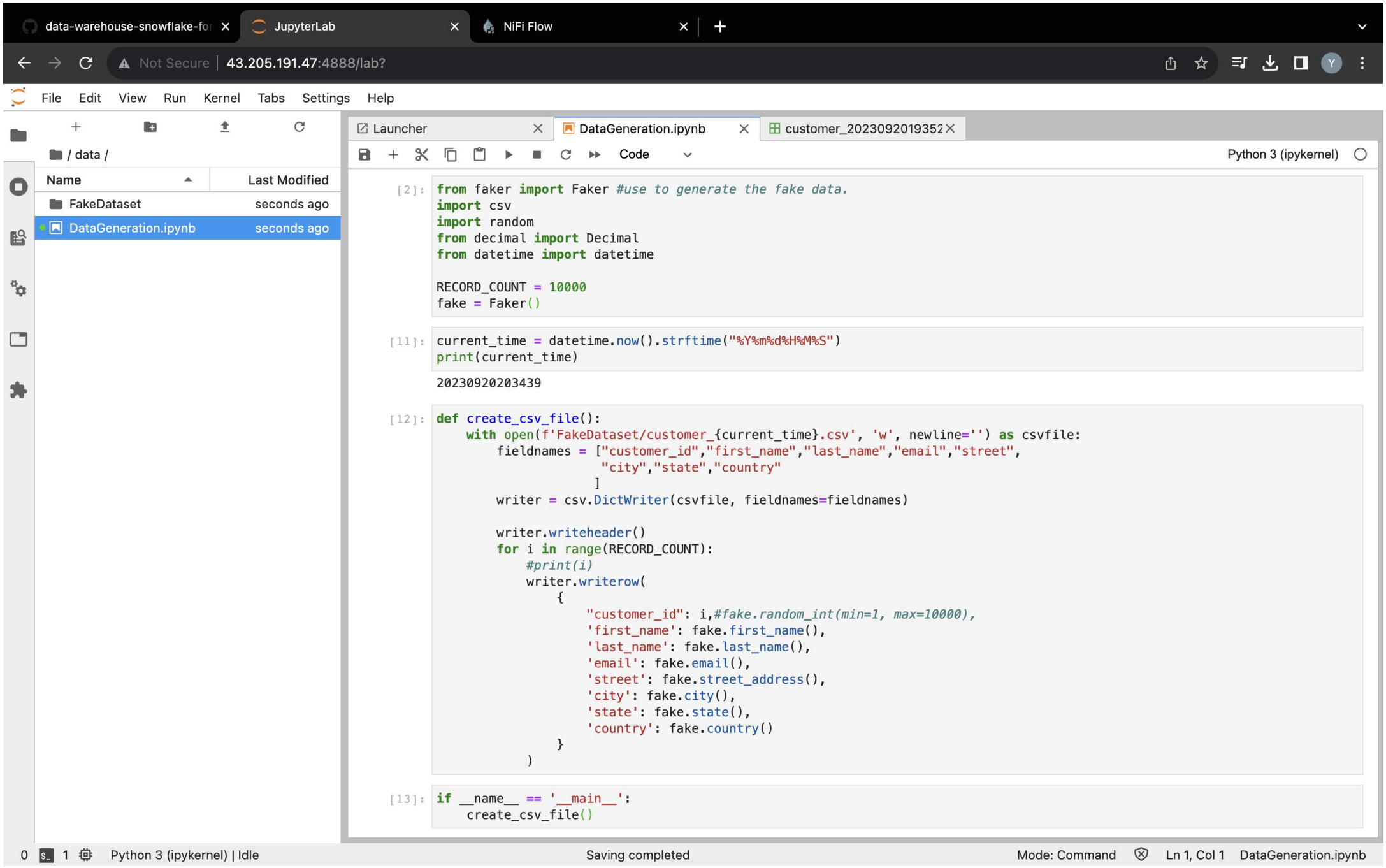
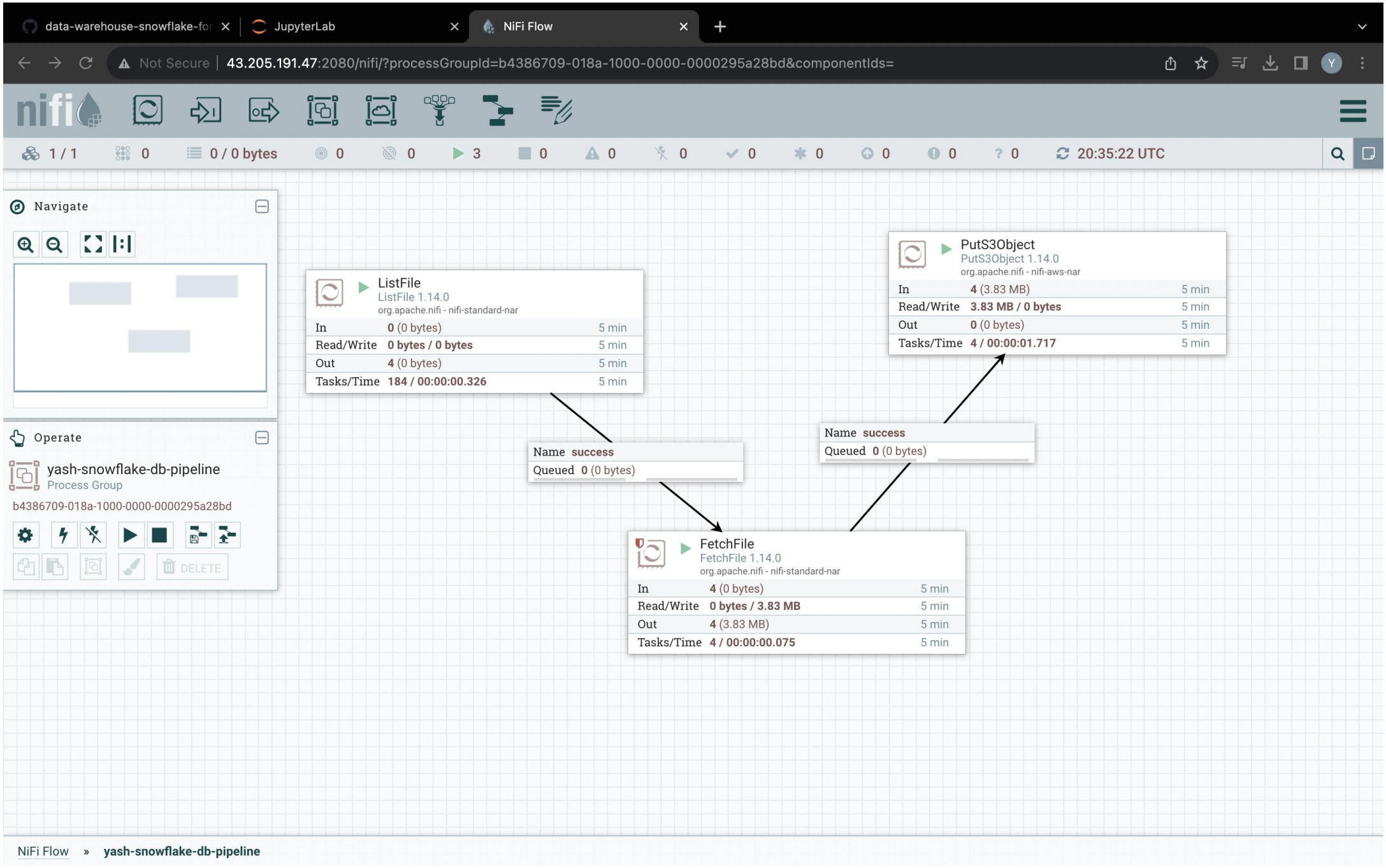
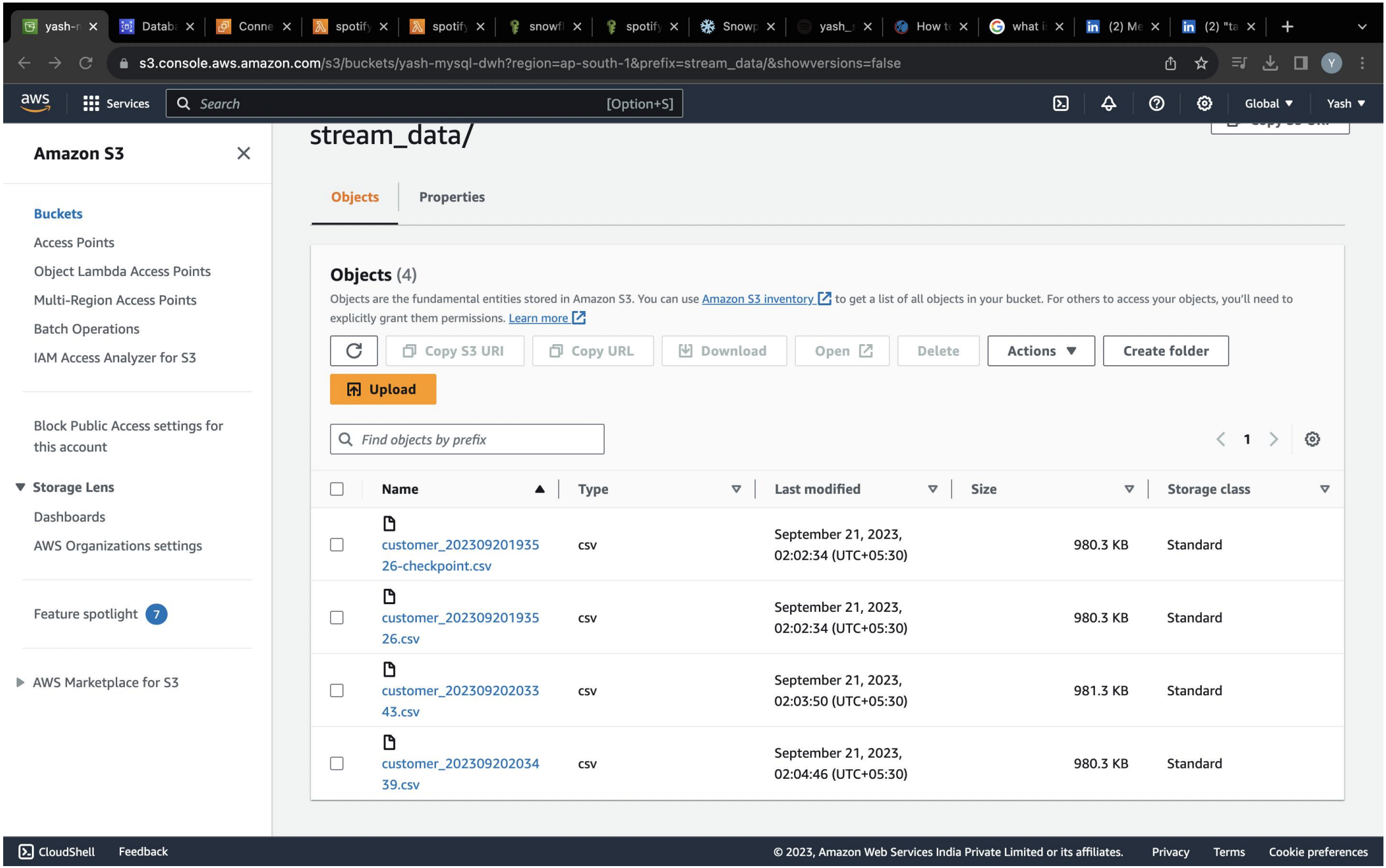
Privacy
Terms
Cookie preferences


data-warehouse-snowflake-for
JupyterLab
NiFi Flow
Not Secure
43.205.191.47:2080/nifi/?processGroupId=b4386709-018a-1000-0000-0000295a28bd&componentIds=
nifi
1 / 1
0
0 / 0 bytes
0
0
3
0
0
0
0
0
0
0
20:33:50 UTC
Navigate
Operate
yash-snowflake-db-pipeline
Process Group
b4386709-018a-1000-0000-0000295a28bd
DELETE
ListFile
ListFile 1.14.0
org.apache.nifi - nifi-standard-nar
In 0 (0 bytes) 5 min
Read/Write 0 bytes / 0 bytes 5 min
Out 3 (0 bytes) 5 min
Tasks/Time 87 / 00:00:00.253 5 min
Name success
Queued 0 (0 bytes)
PutS3Object
PutS3Object 1.14.0
org.apache.nifi - nifi-aws-nar
In 3 (2.87 MB) 5 min
Read/Write 2.87 MB / 0 bytes 5 min
Out 0 (0 bytes) 5 min
Tasks/Time 3 / 00:00:01.527 5 min
Name success
Queued 0 (0 bytes)
FetchFile
FetchFile 1.14.0
org.apache.nifi - nifi-standard-nar
In 3 (0 bytes) 5 min
Read/Write 0 bytes / 2.87 MB 5 min
Out 3 (2.87 MB) 5 min
Tasks/Time 3 / 00:00:00.067 5 min
NiFi Flow » yash-snowflake-db-pipeline


data-warehouse-snowflake-for
JupyterLab
NiFi Flow
Not Secure
43.205.191.47:4888/lab?
File Edit View Run Kernel Tabs Settings Help
/ data /
Name
Last Modified
FakeDataset seconds ago
DataGeneration.ipynb seconds ago
Launcher
DataGeneration.ipynb
customer_2023092019352
Code
Python 3 (ipykernel)
[2]:
from faker import Faker #use to generate the fake data.
import csv
import random
from decimal import Decimal
from datetime import datetime
RECORD_COUNT = 10000
fake = Faker()
[11]:
current_time = datetime.now().strftime("%Y%m%d%H%M%S")
print(current_time)
20230920203439
[12]:
def create_csv_file():
with open(f'FakeDataset/customer_{current_time}.csv', 'w', newline='') as csvfile:
fieldnames = ["customer_id","first_name","last_name","email","street",
"city","state","country"
]
writer = csv.DictWriter(csvfile, fieldnames=fieldnames)
writer.writeheader()
for i in range(RECORD_COUNT):
#print(i)
writer.writerow(
{
"customer_id": i,#fake.random_int(min=1, max=10000),
'first_name': fake.first_name(),
'last_name': fake.last_name(),
'email': fake.email(),
'street': fake.street_address(),
'city': fake.city(),
'state': fake.state(),
'country': fake.country()
}
)
[13]:
if __name__ == '__main__':
create_csv_file()
0 1 Python 3 (ipykernel) | Idle
Saving completed
Mode: Command
Ln 1, Col 1
DataGeneration.ipynb


data-warehouse-snowflake-for
JupyterLab
NiFi Flow
Not Secure
43.205.191.47:2080/nifi/?processGroupId=b4386709-018a-1000-0000-0000295a28bd&componentIds=
nifi
1 / 1
0
0 / 0 bytes
0
0
3
0
0
0
0
0
0
0
20:35:22 UTC
Navigate
Operate
yash-snowflake-db-pipeline
Process Group
b4386709-018a-1000-0000-0000295a28bd
DELETE
ListFile
ListFile 1.14.0
org.apache.nifi - nifi-standard-nar
In 0 (0 bytes) 5 min
Read/Write 0 bytes / 0 bytes 5 min
Out 4 (0 bytes) 5 min
Tasks/Time 184 / 00:00:00.326 5 min
Name success
Queued 0 (0 bytes)
PutS3Object
PutS3Object 1.14.0
org.apache.nifi - nifi-aws-nar
In 4 (3.83 MB) 5 min
Read/Write 3.83 MB / 0 bytes 5 min
Out 0 (0 bytes) 5 min
Tasks/Time 4 / 00:00:01.717 5 min
Name success
Queued 0 (0 bytes)
FetchFile
FetchFile 1.14.0
org.apache.nifi - nifi-standard-nar
In 4 (0 bytes) 5 min
Read/Write 0 bytes / 3.83 MB 5 min
Out 4 (3.83 MB) 5 min
Tasks/Time 4 / 00:00:00.075 5 min
NiFi Flow » yash-snowflake-db-pipeline


s3.console.aws.amazon.com/s3/buckets/yash-mysql-dwh?region=ap-south-1&prefix=stream_data/&showversions=false
Services
Search
[Option+S]
Global
Yash
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 7
AWS Marketplace for S3
stream_data/
Objects
Properties
Objects (4)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
1
Name
Type
Last modified
Size
Storage class
customer_20230920193526-checkpoint.csv
csv
September 21, 2023, 02:02:34 (UTC+05:30)
980.3 KB
Standard
customer_20230920193526.csv
csv
September 21, 2023, 02:02:34 (UTC+05:30)
980.3 KB
Standard
customer_20230920203343.csv
csv
September 21, 2023, 02:03:50 (UTC+05:30)
981.3 KB
Standard
customer_20230920203439.csv
csv
September 21, 2023, 02:04:46 (UTC+05:30)
980.3 KB
Standard
CloudShell
Feedback
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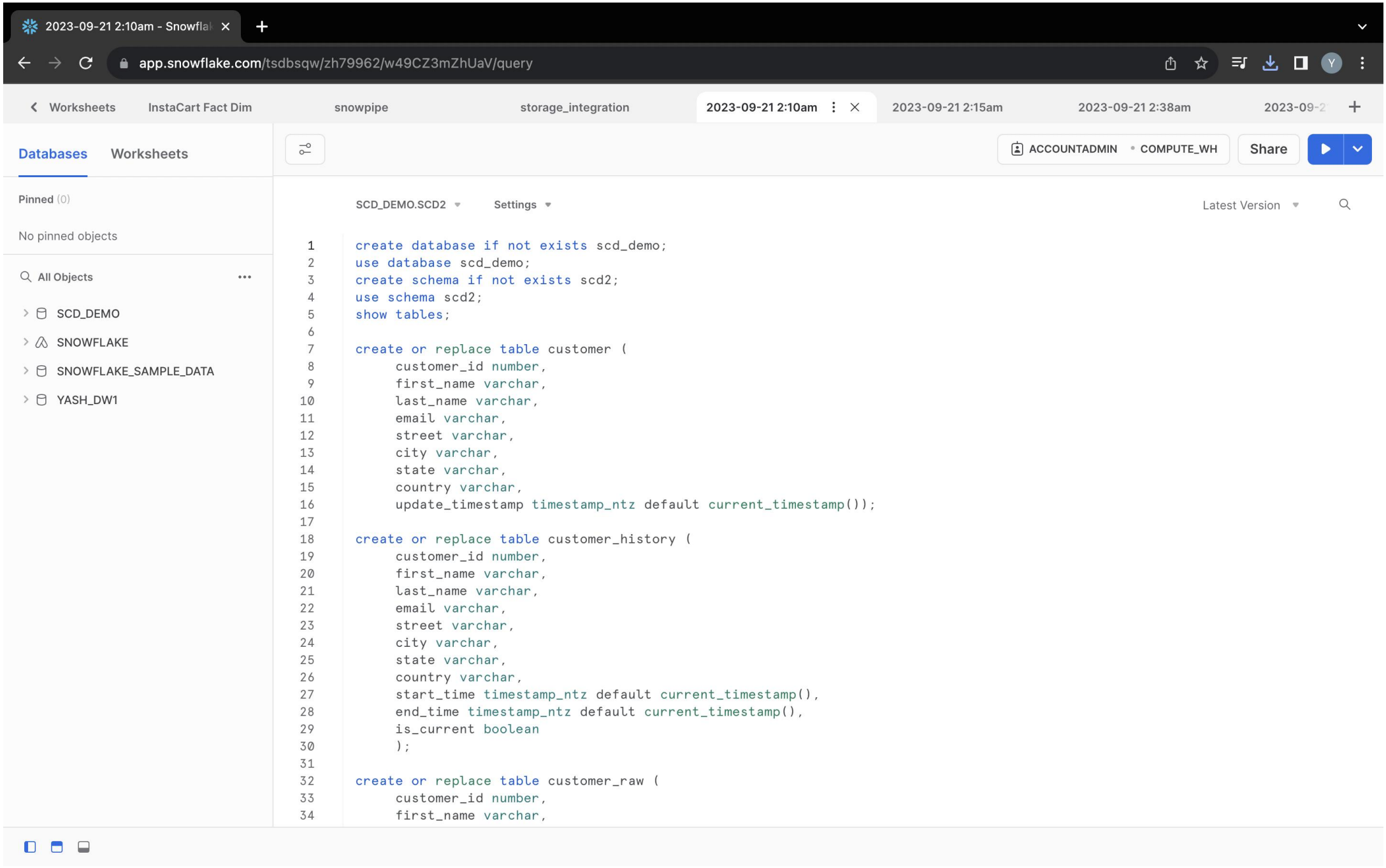
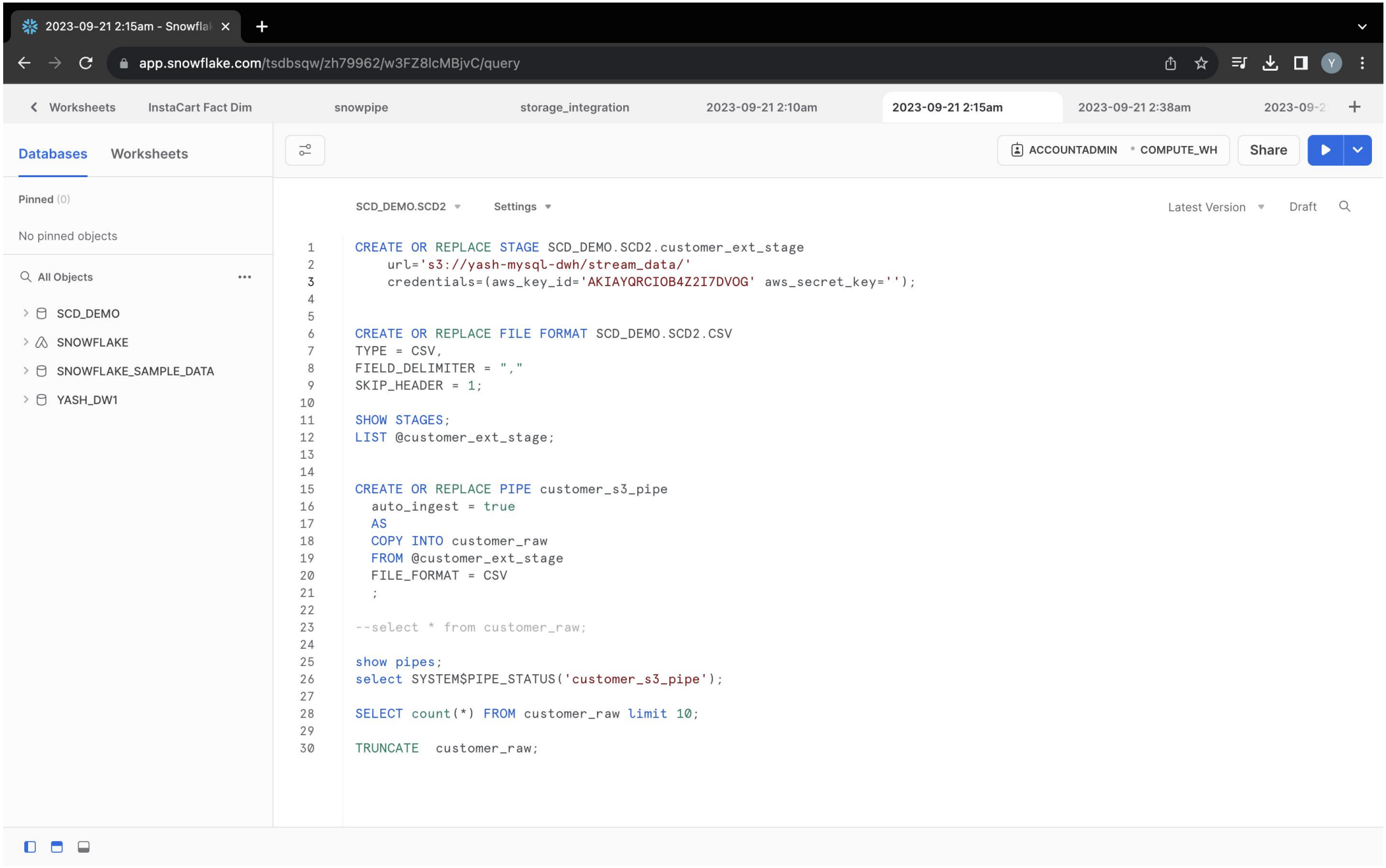
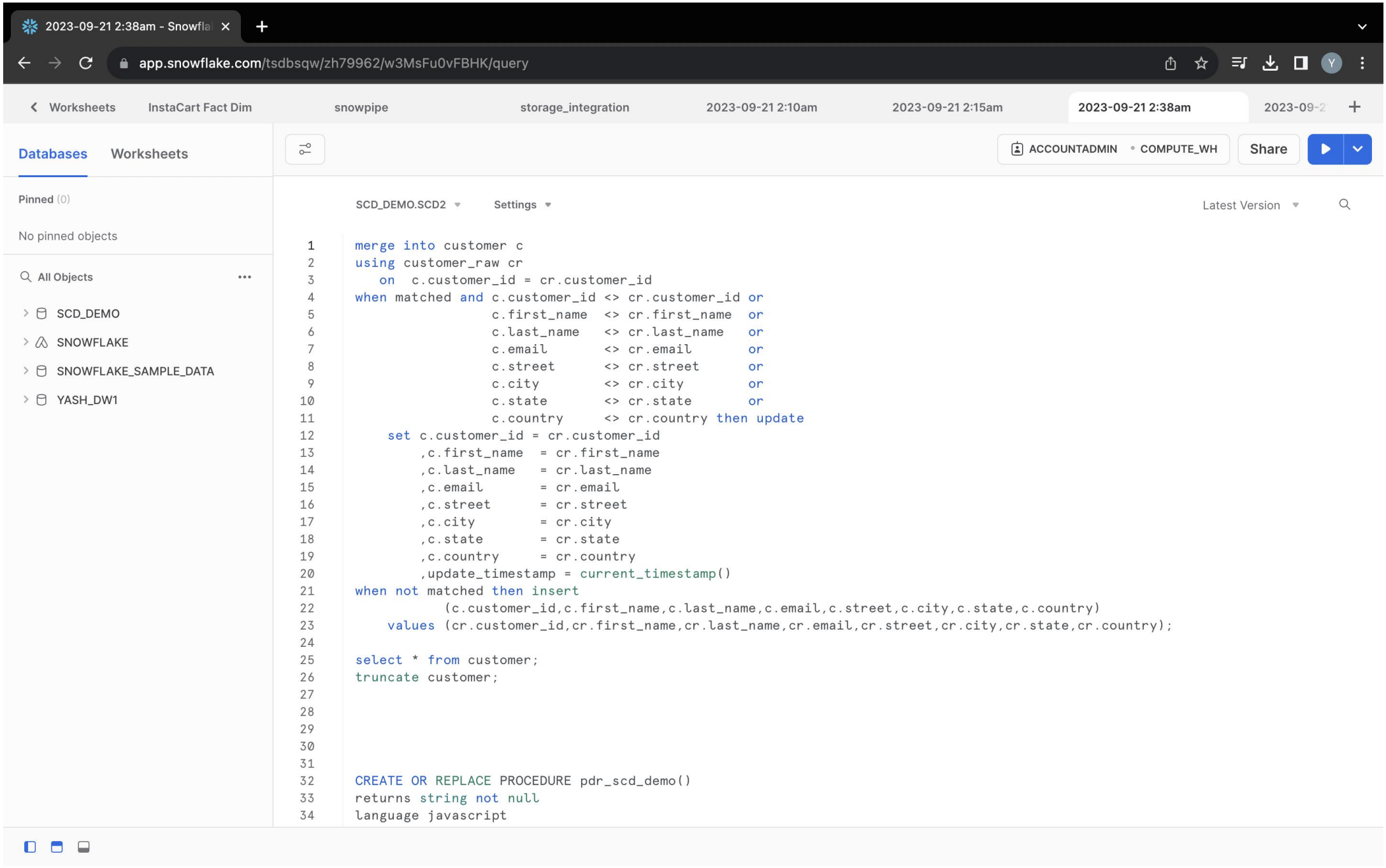
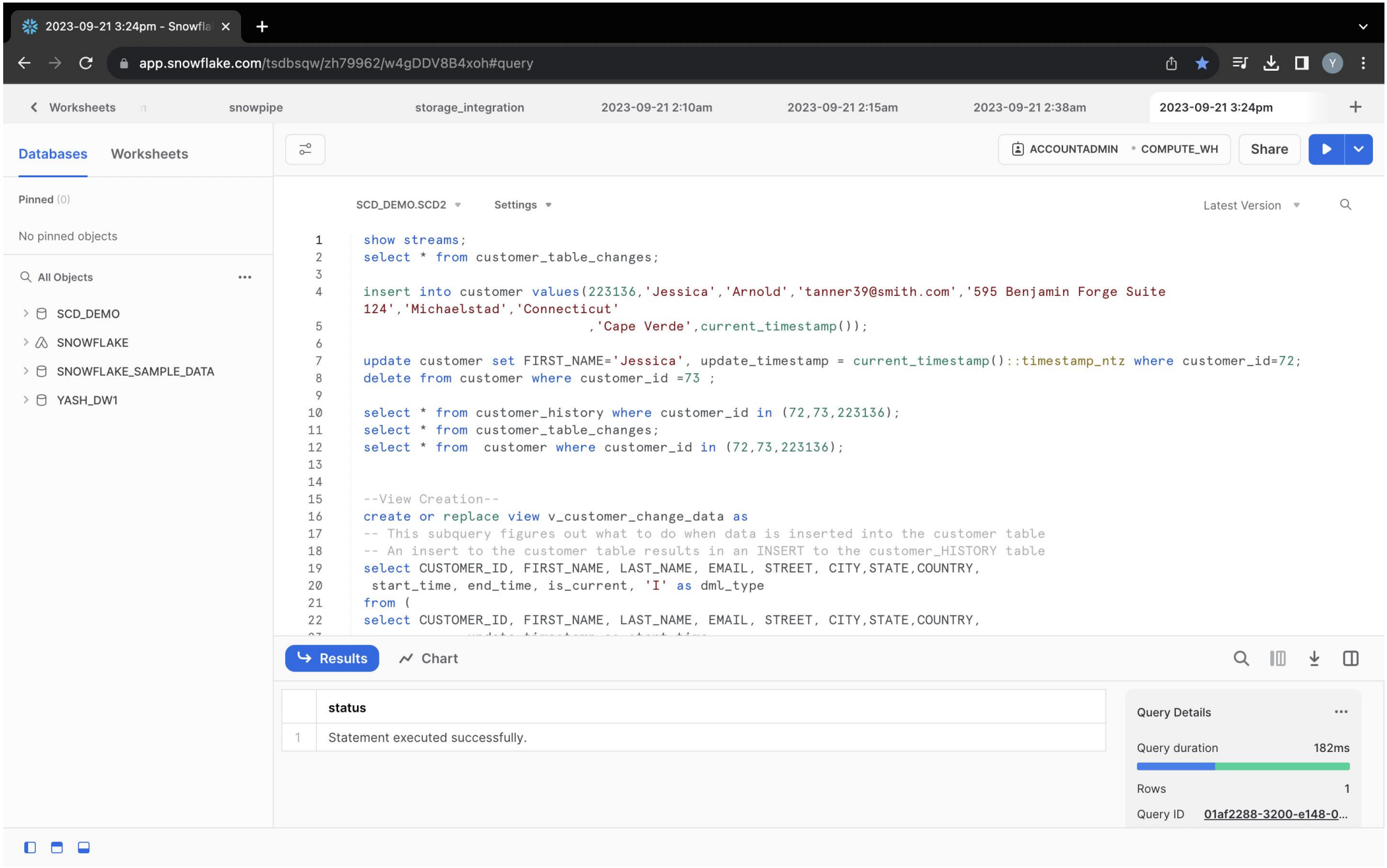
Privacy
Terms
Cookie preferences


2023-09-21 2:10am - Snowflak
app.snowflake.com/tsdbsqw/zh79962/w49CZ3mZhUaV/query
Worksheets
InstaCart Fact Dim
snowpipe
storage_integration
2023-09-21 2:10am
2023-09-21 2:15am
2023-09-21 2:38am
2023-09-2
Databases
Worksheets
ACCOUNTADMIN
COMPUTE_WH
Share
Pinned (0)
No pinned objects
All Objects
SCD_DEMO
SNOWFLAKE
SNOWFLAKE_SAMPLE_DATA
YASH_DW1
SCD_DEMO.SCD2
Settings
Latest Version
create database if not exists scd_demo;
use database scd_demo;
create schema if not exists scd2;
use schema scd2;
show tables;
create or replace table customer (
customer_id number,
first_name varchar,
last_name varchar,
email varchar,
street varchar,
city varchar,
state varchar,
country varchar,
update_timestamp timestamp_ntz default current_timestamp());
create or replace table customer_history (
customer_id number,
first_name varchar,
last_name varchar,
email varchar,
street varchar,
city varchar,
state varchar,
country varchar,
start_time timestamp_ntz default current_timestamp(),
end_time timestamp_ntz default current_timestamp(),
is_current boolean
);
create or replace table customer_raw (
customer_id number,
first_name varchar,


2023-09-21 2:15am - Snowflak
app.snowflake.com/tsdbsqw/zh79962/w3FZ8lcMBjvC/query
Worksheets
InstaCart Fact Dim
snowpipe
storage_integration
2023-09-21 2:10am
2023-09-21 2:15am
2023-09-21 2:38am
2023-09-2
Databases
Worksheets
Pinned (0)
No pinned objects
All Objects
SCD_DEMO
SNOWFLAKE
SNOWFLAKE_SAMPLE_DATA
YASH_DW1
ACCOUNTADMIN
COMPUTE_WH
Share
SCD_DEMO.SCD2
Settings
Latest Version
Draft
CREATE OR REPLACE STAGE SCD_DEMO.SCD2.customer_ext_stage
url='s3://yash-mysql-dwh/stream_data/'
credentials=(aws_key_id='AKIAYQRCIOB4Z2I7DVOG' aws_secret_key='');
CREATE OR REPLACE FILE FORMAT SCD_DEMO.SCD2.CSV
TYPE = CSV,
FIELD_DELIMITER = ","
SKIP_HEADER = 1;
SHOW STAGES;
LIST @customer_ext_stage;
CREATE OR REPLACE PIPE customer_s3_pipe
auto_ingest = true
AS
COPY INTO customer_raw
FROM @customer_ext_stage
FILE_FORMAT = CSV
;
--select * from customer_raw;
show pipes;
select SYSTEM$PIPE_STATUS('customer_s3_pipe');
SELECT count(*) FROM customer_raw limit 10;
TRUNCATE customer_raw;


2023-09-21 2:38am - Snowfla
app.snowflake.com/tsdbsqw/zh79962/w3MsFu0vFBHK/query
Worksheets
InstaCart Fact Dim
snowpipe
storage_integration
2023-09-21 2:10am
2023-09-21 2:15am
2023-09-21 2:38am
2023-09-2
Databases
Worksheets
Pinned (0)
No pinned objects
All Objects
SCD_DEMO
SNOWFLAKE
SNOWFLAKE_SAMPLE_DATA
YASH_DW1
ACCOUNTADMIN
COMPUTE_WH
Share
SCD_DEMO.SCD2
Settings
Latest Version
1 merge into customer c
2 using customer_raw cr
3 on c.customer_id = cr.customer_id
4 when matched and c.customer_id <> cr.customer_id or
5 c.first_name <> cr.first_name or
6 c.last_name <> cr.last_name or
7 c.email <> cr.email or
8 c.street <> cr.street or
9 c.city <> cr.city or
10 c.state <> cr.state or
11 c.country <> cr.country then update
12 set c.customer_id = cr.customer_id
13 ,c.first_name = cr.first_name
14 ,c.last_name = cr.last_name
15 ,c.email = cr.email
16 ,c.street = cr.street
17 ,c.city = cr.city
18 ,c.state = cr.state
19 ,c.country = cr.country
20 ,update_timestamp = current_timestamp()
21 when not matched then insert
22 (c.customer_id,c.first_name,c.last_name,c.email,c.street,c.city,c.state,c.country)
23 values (cr.customer_id,cr.first_name,cr.last_name,cr.email,cr.street,cr.city,cr.state,cr.country);
24
25 select * from customer;
26 truncate customer;
27
28
29
30
31
32 CREATE OR REPLACE PROCEDURE pdr_scd_demo()
33 returns string not null
34 language javascript


2023-09-21 3:24pm - Snowfla
app.snowflake.com/tsdbsqw/zh79962/w4gDDV8B4xoh#query
Worksheets
snowpipe
storage_integration
2023-09-21 2:10am
2023-09-21 2:15am
2023-09-21 2:38am
2023-09-21 3:24pm
Databases
Worksheets
Pinned (0)
No pinned objects
All Objects
SCD_DEMO
SNOWFLAKE
SNOWFLAKE_SAMPLE_DATA
YASH_DW1
ACCOUNTADMIN
COMPUTE_WH
Share
SCD_DEMO.SCD2
Settings
Latest Version
1 show streams;
2 select * from customer_table_changes;
3
4 insert into customer values(223136,'Jessica','Arnold','tanner39@smith.com','595 Benjamin Forge Suite
124','Michaelstad','Connecticut'
5 ,'Cape Verde',current_timestamp());
6
7 update customer set FIRST_NAME='Jessica', update_timestamp = current_timestamp()::timestamp_ntz where customer_id=72;
8 delete from customer where customer_id =73 ;
9
10 select * from customer_history where customer_id in (72,73,223136);
11 select * from customer_table_changes;
12 select * from customer where customer_id in (72,73,223136);
13
14
15 --View Creation--
16 create or replace view v_customer_change_data as
17 -- This subquery figures out what to do when data is inserted into the customer table
18 -- An insert to the customer table results in an INSERT to the customer_HISTORY table
19 select CUSTOMER_ID, FIRST_NAME, LAST_NAME, EMAIL, STREET, CITY,STATE,COUNTRY,
20 start_time, end_time, is_current, 'I' as dml_type
21 from (
22 select CUSTOMER_ID, FIRST_NAME, LAST_NAME, EMAIL, STREET, CITY,STATE,COUNTRY,
Results
Chart
status
1 Statement executed successfully.
Query Details
Query duration 182ms
Rows 1
Query ID 01af2288-3200-e148-0...