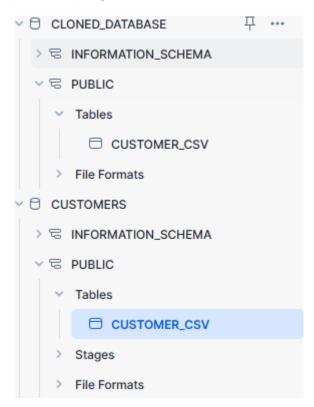
Assignment- 11

1. Create a Clone of an Existing Database Using Zero-Copy Cloning

Step 1: Clone a Database or Table

Use the CLONE command to create a clone of a database or table without copying data.

CREATE OR REPLACE DATABASE cloned_database CLONE CUSTOMERS;



Step 2: Modify the Clone

Modify data in the cloned table to see that it does not affect the original data:

UPDATE customer_csv SET BIRTH_COUNTRY= 'BALI' WHERE FIRST_NAME= 'Louise';

25335682 Mrs. Louise Cobb F S 1951-09-09 BALI

Step 3: Verify the Original Data

Query the original table and confirm that it has not been affected by changes made in the clone:

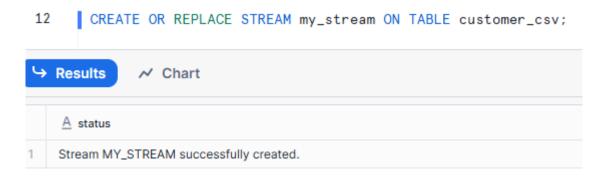


So we can clearly see no changes in the original table after updating anything in the cloned table or database.

2. Set Up a Stream and Task for Continuous Integration

Step 1: Create a Stream

Create a stream to track changes in a table.



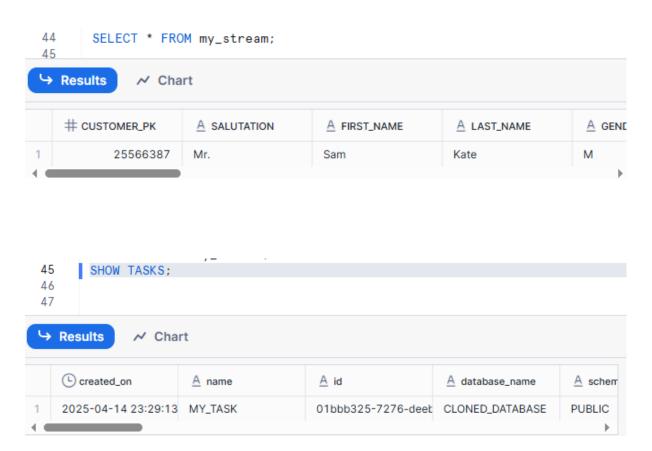
Step 2: Create a Task

Create a task that processes the stream and inserts changed data into a target table.

```
CREATE OR REPLACE TASK my_task
WAREHOUSE = compute_wh
SCHEDULE = '1 MINUTE'
AS
INSERT INTO task_demo (SELECT * FROM my_stream WHERE METADATA$ACTION = 'INSERT');
```

Step 3: Monitor the Stream and Task

View the stream data and task status:



3. Implement a Simple UDF in SQL

Step 1: Create a SQL UDF

```
47
       CREATE OR REPLACE FUNCTION format_full_name(
48
         first_name STRING,
49
         last_name STRING
50
51
       RETURNS STRING
52
       LANGUAGE SQL
53
       AS
54
       $$
55
         first_name || ' ' || last_name
56
       $$;
57
→ Results

✓ Chart

   A status
   Function FORMAT_FULL_NAME successfully created.
```

Step 2: Use the UDF

Apply the UDF in a query:

```
SELECT
CUSTOMER_PK,
format_full_name(FIRST_NAME, LAST_NAME) AS FULL_NAME
FROM CUSTOMER_CSV;
```

| ' | # CUSTOMER_PK | A FULL_NAME |
|---|---------------|---------------------|
| 1 | 25335656 | Leo Brown |
| 2 | 25335678 | Melissa Hendrickson |
| 3 | 25335682 | Louise Cobb |
| 4 | 25335730 | Joyce Ferguson |
| 5 | 25566387 | Sam Kate |