**Build Snowflake Continuous Data Pipeline Snow Pipe AWS Streams Tasks External Stages**

USE warehouse ASSIGNMENT;

create database person;  
use database person;

CREATE OR REPLACE FILE FORMAT json\_format  
TYPE = 'JSON';

CREATE OR REPLACE STAGE ext\_assign\_stage  
  URL= s3://assign-bucket-92/data/'  
  CREDENTIALS=(AWS\_KEY\_ID='XXXXXXXXXX'   
                AWS\_SECRET\_KEY=’xxxxxxxxxxxxxxxxxxxx’)  
  FILE\_FORMAT = (FORMAT\_NAME = 'json\_format');

  list @ ext\_assign\_stage;

CREATE OR REPLACE TABLE PERSON\_NESTED (  
    raw\_data VARIANT  
);

CREATE OR REPLACE PIPE asg3\_pipe  
AUTO\_INGEST = TRUE  
AS  
COPY INTO PERSON\_NESTED  
FROM @ ext\_assign\_stage  
FILE\_FORMAT = (FORMAT\_NAME = 'json\_format')  
ON\_ERROR = 'CONTINUE';

show pipes;

alter pipe asg3\_pipe refresh;

--Validation if snowpipe ran successfully

select SYSTEM$PIPE\_STATUS('asg3\_pipe');

select \*  
from table(information\_schema.copy\_history(TABLE\_NAME=>'PERSON\_NESTED',   
START\_TIME=> DATEADD(hours, -1, CURRENT\_TIMESTAMP())));

select \* from PERSON\_NESTED;

--Change Data Capture using Streams, Tasks and Merge.

CREATE OR REPLACE STREAM PERSON\_NESTED\_STREAM ON TABLE PERSON\_NESTED;

CREATE OR REPLACE TABLE PERSON\_MASTER (  
    PERSON\_ID NUMBER,  
    NAME VARCHAR,  
    AGE NUMBER,  
    LOCATION VARCHAR,  
    ZIP VARCHAR  
);

SELECT \* FROM PERSON\_NESTED;

--check copy\_history  
SELECT \*  
FROM table(information\_schema.copy\_history(TABLE\_NAME=>'PERSON\_NESTED',   
START\_TIME=> DATEADD(hours, -1, CURRENT\_TIMESTAMP())));

SELECT \* FROM PERSON\_NESTED\_STREAM;

--ELT IN SNOWFLAKE USING STORED PROCEDURE

CREATE OR REPLACE TABLE PERSON\_AGE (  
    NAME VARCHAR,  
    AGE NUMBER  
);

CREATE OR REPLACE TABLE PERSON\_LOCATION (  
    NAME VARCHAR,  
    LOCATION VARCHAR  
);