CONTINOUS DATA INGESTING FROM AWS TO SNOWFLAKE

use database <name of the database>

--STEP1: CREATING THE TABLE

```
CREATE OR REPLACE TABLE HEALTHCARE(
Patientid VARCHAR(15),
gender CHAR(8),
age VARCHAR(5)        ,
hypertension CHAR(20),
heart_disease CHAR(20),
ever_married CHAR(30),
work_type VARCHAR(60),
Residence_type CHAR(30)     ,
avg_glucose_level VARCHAR(20),
bmi VARCHAR(20)      ,
smoking_status        VARCHAR(20),
stroke CHAR(20)
);
```

--STEP2: CREATE BUCKET IN AWS
--STEP3: CREATE POLICY VIA JSON and enter the code below then INSERT THE BUCKET ARN IN JSON FILE
JSON CODE:

```
{
    "Version": "2012-10-17",
    "Statement": [
      {
        "Effect": "Allow",
        "Action": [
          "s3:PutObject",
          "s3:GetObject",
          "s3:GetObjectVersion",
          "s3:DeleteObject",
          "s3:DeleteObjectVersion"
        ],
        "Resource": "arn:aws:s3:::awshealthcarebucket/*" – enter your bucket name here
      },
      {
        "Effect": "Allow",
        "Action": "s3:ListBucket",
        "Resource": "arn:aws:s3:::awshealthcarebucket" --– enter your bucket name here
      }
    ]
}
```

--STEP4: CREATE ROLE with TRUST ENTITY AWS ACCOUNT

--STEP 5: CREATE STORAGE INTEGRATION AND ENTER ROLE AND BUCKET NAME

```
CREATE OR REPLACE STORAGE integration S3_VC1
TYPE = EXTERNAL_STAGE
STORAGE_PROVIDER = S3
ENABLED = TRUE
STORAGE_AWS_ROLE_ARN ='arn:aws:iam::188649628852:role/healthrole-vc'
STORAGE_ALLOWED_LOCATIONS =('s3://healthcare-bucket-vc/');
```

--STEP 6: DESCRIBE THE STORAGE

```
desc integration S3_VC1;
```

--STEP 7: ENTER 'STORAGE_AWS_IAM_USER_ARN' VALUE IN ROLE > TRUST POLICY

-- STEP 8: CREATE STAGE IN SNOWFLAKE

```
CREATE OR REPLACE STAGE HEALTHCARE_VC
URL ='s3://healthcare-bucket-vc/'
file_format=CSV
STORAGE_INTEGRATION = S3_VC1;
```

```
SHOW STAGES;
```

-- STEP 9: CREATE A PIPE:

```
CREATE OR REPLACE PIPE HEALTHCARE_SNOWPIPE_VC AUTO_INGEST = TRUE AS
COPY INTO "DATAPIPELINING"."PUBLIC"."HEALTHCARE"
FROM @HEALTHCARE_VC
FILE_FORMAT = CSV;
```

```
SHOW PIPES;
```

-- STEP 10: CREATE THE EVENT NOTIFICATION CHANNEL UNDER BUCKET > PROPERTIES > SELECT 'All object create events' >
-- > SELECT 'SQS queue' > SELECT 'Enter SQS queue ARN' > ENTER THE VALUE FROM NOTIFICATION CHANNEL FROM SHOW PIPES
-- STEP 11: ENTER THE 'NOTIFICATION CHANNEL VALUE' IN DESTINATION WHILE CREATING EVENT NOTIFICATION

```
alter pipe HEALTHCARE_SNOWPIPE_VC refresh;
```

-- FINAL STEP: ENTER THE DATA AND ENJOY !!

```
SELECT count(*) FROM HEALTHCARE;
```

```
SELECT * FROM HEALTHCARE
```