--change the role to accountadmin

USE ROLE ACCOUNTADMIN;

create or replace warehouse capstone\_wh;

use warehouse capstone\_wh;

create database capstone\_db;

create database PC\_DBT\_DB;

use database capstone\_db;

use database PC\_DBT\_DB;

--drop database PC\_DBT\_DB;

--drop database capstone\_db;

--File\_format

create or replace file format csv\_file\_format

type='csv'

FIELD\_OPTIONALLY\_ENCLOSED\_BY = '"'

FIELD\_DELIMITER = ','

RECORD\_DELIMITER = '\n'

SKIP\_HEADER = 1;

--CREATE STORAGE INTEGRATION(CREATE ROLE THROUGH IAM WITH S3 ALL ACCESS AND COPY ARM FROM ROLE)

create or replace storage integration capstone\_int

type = external\_stage

storage\_provider = s3

enabled = true

storage\_aws\_role\_arn = 'arn:aws:iam::891377129521:role/capstone'

storage\_allowed\_locations = ('s3://capstonesandhya/capstone\_folder/');

----describe the integration created(copy the 5,6 arn and id in trust relations in roles created)

desc integration capstone\_int;

--Create external stage object

create or replace stage capstone\_stage

URL = 's3://capstonesandhya/capstone\_folder/'

STORAGE\_INTEGRATION = capstone\_int

file\_format = csv\_file\_format;

list @capstone\_stage;

--Create tables for data ingestion

--Transaction table

create or replace table transaction(

transaction\_id STRING,

customer\_id STRING,

transaction\_date TIMESTAMP\_NTZ,

amount FLOAT,

currency STRING,

transaction\_type STRING,

channel STRING,

merchant\_name STRING,

merchant\_category STRING,

location\_country STRING,

location\_city STRING,

is\_flagged BOOLEAN

);

--Customer Table

create or replace table customer(

customer\_id STRING,

first\_name STRING,

last\_name STRING,

date\_of\_birth DATE,

gender STRING,

email STRING,

phone\_number STRING,

address STRING,

city STRING,

country STRING,

occupation STRING,

income\_bracket STRING,

customer\_since DATE

);

--Accounts Table

create or replace table account(

account\_id STRING,

customer\_id STRING,

account\_type STRING,

account\_status STRING,

open\_date DATE,

current\_balance FLOAT,

currency STRING,

credit\_limit FLOAT

);

--Credit data table

create or replace table credit(

customer\_id STRING,

credit\_score INT,

number\_of\_credit\_accounts INT,

total\_credit\_limit FLOAT,

total\_credit\_used FLOAT,

number\_of\_late\_payments INT,

bankruptcies INT

);

drop table account;

drop table credit;

drop table customer;

drop table transaction;

-- Create a Snowpipe to load data from S3 into the list\_table

CREATE OR REPLACE PIPE transaction\_pipe AUTO\_INGEST = TRUE AS

COPY INTO transaction

FROM @capstone\_stage/transactions.csv

FILE\_FORMAT = csv\_file\_format;

--VALIDATION\_MODE = RETURN\_ALL\_ERRORS;

CREATE OR REPLACE PIPE customer\_pipe AUTO\_INGEST = TRUE AS

COPY INTO customer

FROM @capstone\_stage/customers.csv

FILE\_FORMAT = csv\_file\_format;

CREATE OR REPLACE PIPE account\_pipe AUTO\_INGEST = TRUE AS

COPY INTO account

FROM @capstone\_stage/accounts.csv

FILE\_FORMAT = csv\_file\_format;

CREATE OR REPLACE PIPE credit\_pipe AUTO\_INGEST = TRUE AS

COPY INTO credit

FROM @capstone\_stage/credit\_data.csv

FILE\_FORMAT = csv\_file\_format;

show pipes;

alter pipe transaction\_pipe refresh;

alter pipe customer\_pipe refresh;

alter pipe account\_pipe refresh;

alter pipe credit\_pipe refresh;

Select SYSTEM$PIPE\_STATUS('transaction\_pipe');

Select SYSTEM$PIPE\_STATUS('customer\_pipe');

Select SYSTEM$PIPE\_STATUS('account\_pipe');

Select SYSTEM$PIPE\_STATUS('credit\_pipe');

select \* from transaction;

select \* from customer;

select \* from account;

select \* from credit;

create role PC\_DBT\_ROLE;

GRANT All PRIVILEGES ON DATABASE PC\_DBT\_DB TO ROLE pc\_dbt\_role;

CREATE SCHEMA TEST\_SCHEMA;

GRANT All PRIVILEGES on SCHEMA TEST\_SCHEMA TO ROLE pc\_dbt\_role;

create table t1(

c1 int,

c2 int

);

insert into t1 values(200, 400);

select \* from PC\_DBT\_DB.test\_schema.T1;

REVOKE APPLYBUDGET ON DATABASE PC\_DBT\_DB FROM ROLE PC\_DBT\_ROLE;

grant all privileges on DATABASE PC\_DBT\_DB to role PC\_DBT\_ROLE;

grant all privileges on schema PUBLIC to role PC\_DBT\_ROLE;

grant select on all tables in schema PUBLIC to role PC\_DBT\_ROLE;

select \* from customer;