USE ROLE FR\_DEV\_DATAENGINEER;

CREATE TABLE HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS CLONE HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI;

select \* from HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS;

use role fr\_dev\_dataengineer;

create or replace table mapping

( ROLE\_NAME varchar,

M\_LOCATION varchar

);

grant select on HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MAPPING to role ar\_dev\_gov\_ro;

grant select on HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS to role ar\_dev\_gov\_ro;

-- Inserting mapping records

insert into MAPPING values ('SAN\_FRANCISCO','San Francisco');

insert into MAPPING values ('SAN\_JUAN','San Juan');

insert into MAPPING values ('NEW\_YORK\_CITY','New York City');

SELECT \* FROM MAPPING;

use role securityadmin;

create role SAN\_FRANCISCO;

create role SAN\_JUAN;

create role NEW\_YORK\_CITY;

grant role SAN\_FRANCISCO to user VAMSISIVAPURAM;

grant role SAN\_JUAN to user VAMSISIVAPURAM;

grant role NEW\_YORK\_CITY to user VAMSISIVAPURAM;

grant role SAN\_FRANCISCO to user M;

USE ROLE SYSADMIN;

grant usage on database HARMONIZED\_DEV to role SAN\_FRANCISCO;

grant usage on database HARMONIZED\_DEV to role SAN\_JUAN;

grant usage on database HARMONIZED\_DEV to role NEW\_YORK\_CITY;

grant usage on schema DEV\_HAR\_MERAKI TO ROLE SAN\_FRANCISCO;

grant usage on schema DEV\_HAR\_MERAKI TO ROLE SAN\_JUAN;

grant usage on schema DEV\_HAR\_MERAKI TO ROLE NEW\_YORK\_CITY;

grant select on table MERAKI\_RLS to role SAN\_FRANCISCO;

grant select on table MAPPING to role SAN\_FRANCISCO;

grant select on table MERAKI\_RLS to role SAN\_JUAN;

grant select on table MAPPING to role SAN\_JUAN;

grant select on table MERAKI\_RLS to role NEW\_YORK\_CITY;

grant select on table MAPPING to role NEW\_YORK\_CITY;

grant select on table MERAKI\_RLS to role SYSADMIN;

grant select on table MAPPING to role SYSADMIN;

use role fr\_dev\_datasteward;

create or replace row access policy MERAKI\_ROW\_LEVEL\_POLICY as (LOCATION varchar) returns boolean ->

'FR\_DEV\_DATAENGINEER' = current\_role()

or exists (

select 1 from mapping

where role\_name = current\_role()

and M\_LOCATION = LOCATION

);

grant apply on row access policy MERAKI\_ROW\_LEVEL\_POLICY to role SAN\_FRANCISCO;

alter table MERAKI\_RLS add row access policy MERAKI\_ROW\_LEVEL\_POLICY on (LOCATION);

alter table MERAKI\_RLS DROP row access policy MERAKI\_ROW\_LEVEL\_POLICY;

use role FR\_DEV\_DATAENGINEER;

SELECT distinct location from HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS;

select \* from HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS where LOCATION = 'San Francisco';--7614

select \* from HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS where LOCATION = 'San Juan';--4543

select \* from HARMONIZED\_DEV.DEV\_HAR\_MERAKI.MERAKI\_RLS where LOCATION = 'New York City';--12,661

use role SAN\_FRANCISCO;

select \* from MERAKI\_RLS; --7614

use role SAN\_JUAN;

select \* from MERAKI\_RLS; --4534

use role NEW\_YORK\_CITY;

select \* from MERAKI\_RLS; --12661