

Assignment - Dynamic Data Masking

1. Prepare the table and two roles to test the masking policies (you can use the statement below)

```
.USE DEMO_DB;  
. USE ROLE ACCOUNTADMIN;  
. -- Prepare table --  
. create or replace table customers(  
. id number,  
. full_name varchar,  
. email varchar,  
. phone varchar,  
. spent number,  
. create_date DATE DEFAULT CURRENT_DATE);  
. -- insert values in table --  
. insert into customers (id, full_name, email, phone, spent)  
. values  
. (1,'Lewiss MacDwyer','lmacdwyer0@un.org','262-665-9168',140),  
. (2,'Ty Pettingall','tpettingall1@mayoclinic.com','734-987-7120',254),  
. (3,'Marlee Spadazzi','mspadazzi2@txnews.com','867-946-3659',120),  
. (4,'Heywood Tearney','htearney3@patch.com','563-853-8192',1230),  
. (5,'Odilia Seti','oseti4@globo.com','730-451-8637',143),  
. (6,'Meggie Washtell','mwashtell5@rediff.com','568-896-6138',600);  
. -- set up roles  
. CREATE OR REPLACE ROLE ANALYST_MASKED;  
. CREATE OR REPLACE ROLE ANALYST_FULL;  
. -- grant select on table to roles  
. GRANT SELECT ON TABLE DEMO_DB.PUBLIC.CUSTOMERS TO ROLE ANALYST_MASKED;  
. GRANT SELECT ON TABLE DEMO_DB.PUBLIC.CUSTOMERS TO ROLE ANALYST_FULL;  
. GRANT USAGE ON SCHEMA DEMO_DB.PUBLIC TO ROLE ANALYST_MASKED;
```

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. GRANT USAGE ON SCHEMA DEMO_DB.PUBLIC TO ROLE ANALYST_FULL;  
. -- grant warehouse access to roles  
. GRANT USAGE ON WAREHOUSE COMPUTE_WH TO ROLE ANALYST_MASKED;  
. GRANT USAGE ON WAREHOUSE COMPUTE_WH TO ROLE ANALYST_FULL;  
. -- assign roles to a user  
. GRANT ROLE ANALYST_MASKED TO USER <YOUR-USER-NAME>;  
. GRANT ROLE ANALYST_FULL TO USER <YOUR-USER-NAME>;
```

2. Create masking policy called name that is showing '*' instead of the original varchar value except the role analyst_full is used in this case show the original value.**

3. Apply the masking policy on the column full_name

4. Unset the policy

5. Validate the result using the role analyst_masked and analyst_full

6. Alter the policy so that the last two characters are shown and before that only '*' (example: ***er)**

7. Apply the policy again on the column full name and validate the policy

Questions for this assignment

How did it go? Feel free to share your experience.