

Object Tagging

In this experiment, we will learn to use object tagging in Snowflake

1. Create sample databases

```
USE ROLE ACCOUNTADMIN;
```

```
CREATE OR REPLACE DATABASE SNOWTEST; -- Database storing the tags  
CREATE OR REPLACE DATABASE SNOWTEST2;  
CREATE OR REPLACE DATABASE SNOWTEST3;
```

2. We need to create a schema for the object tags

```
CREATE OR REPLACE SCHEMA SNOWTEST.TAGS;
```

3. Let's create a tag for the different database objects

```
CREATE OR REPLACE TAG SNOWTEST.TAGS.tag_options allowed_values  
'sales','finance';
```

4. We can look at the tags

```
SELECT GET_DDL('tag', 'tag_options');
```

5. We can Tag objects by using the ALTER command and SET TAG

```
ALTER DATABASE SNOWTEST2 SET TAG tag_options = 'sales';
```

6. We can ONLY add tags where there is an available option

```
ALTER DATABASE SNOWTEST3 SET TAG tag_options = 'IT'; -- Should display an  
error
```

7. ALTER the Tag to add the IT Option

```
ALTER TAG SNOWTEST.TAGS.tag_options add allowed_values 'IT';  
ALTER DATABASE SNOWTEST3 SET TAG SNOWTEST.TAGS.tag_options = 'IT';
```

8. We can always see all the available options for a tag in Snowflake

```
SELECT  
SYSTEM$GET_TAG_ALLOWED_VALUES('SNOWTEST.TAGS.TAG_OPTIONS');
```

9. Furthermore, we can see what objects have various tags

```
SELECT * FROM SNOWFLAKE.ACCOUNT_USAGE.TAGS;  
SELECT  
SYSTEM$GET_TAG('SNOWTEST.TAGS.TAG_OPTIONS','SNOWTEST3','DATABASE')
```

10. Clear resources

```
DROP DATABASE SNOWTEST;  
DROP DATABASE SNOWTEST2;  
DROP DATABASE SNOWTEST3;
```

Test Your Skills

Create a database: SNOWTEST

Create a schema in SNOWTEST called "PUBLIC"

Create a tables called animal with the columns dog, cat, apple, rabbit and food

Assignment: Create a tagging policy to classify the columns as either an animal or food item