**Lab Exercise 16– Using Tags in dbt for Snowflake**

In this lab exercise, you’ll learn how to use **tags** in dbt to label and organize models in your Snowflake project. Tags are especially helpful in large projects where you want to run or test specific groups of models based on different categories (e.g., finance, marketing, staging).

**Objective**

* Use tags to categorize models in your dbt project.
* Run models based on their tags.

**Step 1: Set Up Models with Tags**

1. **Create a Folder Structure**:
   * In your models directory, create a folder structure like this:
2. **Create the Models**:
   * In models/finance/sales\_data.sql, create the following model:

-- models/finance/sales\_data.sql

{{

config(

materialized = 'table',

tags = ['finance']

)

}}

SELECT

order\_id,

total\_amount,

order\_date

FROM raw\_db.raw\_data.orders

WHERE order\_date >= '2024-01-01'

* + In models/marketing/customer\_data.sql, create another model:

-- models/marketing/customer\_data.sql

{{

config(

materialized = 'table',

tags = ['marketing']

)

}}

SELECT

customer\_id,

NAME,

email,

signup\_date

FROM raw\_db.raw\_data.customers

WHERE CREATED\_AT >= '2024-01-01'

1. **Add Tag Configurations in Each Model**:
   * Notice that each model file has a tags parameter within the config block.
   * The sales\_data model is tagged as finance.
   * The customer\_data model is tagged as marketing.

**Step 2: Running Models Using Tags**

With tags, you can selectively run only the models you’re interested in. Here’s how to use tags with the dbt command.

1. **Run Only Finance Models**:
   * Run the models with the tag finance:

dbt run --select tag:finance

1. **Run Only Marketing Models**:
   * Run the models with the tag marketing:

dbt run --select tag:marketing

1. **Run All Models with Tags**:
   * To run all models with tags, regardless of the tag name, you can use the --selector flag with tag:\*:

dbt run --select tag:\*