

Introduction and Environment Setup

SNOWFLAKE USER CREATION

Copy these SQL statements into a Snowflake Worksheet, select all and execute them (i.e. pressing the play button).

```
-- Use an admin role
USE ROLE ACCOUNTADMIN;

-- Create the `transform` role
CREATE ROLE IF NOT EXISTS transform;
GRANT ROLE TRANSFORM TO ROLE ACCOUNTADMIN;

-- Create the `dbt` user and assign to role
CREATE USER IF NOT EXISTS dbt
  PASSWORD='dbtPassword123'
  LOGIN_NAME='dbt'
  MUST_CHANGE_PASSWORD=FALSE
  DEFAULT_WAREHOUSE='COMPUTE_WH'
  DEFAULT_ROLE='transform'
  DEFAULT_NAMESPACE='AIRBNB.RAW'
  COMMENT='DBT user used for data transformation';
GRANT ROLE transform to USER dbt;

-- Create our database and schemas
CREATE DATABASE IF NOT EXISTS AIRBNB;
CREATE SCHEMA IF NOT EXISTS AIRBNB.RAW;

-- Set up permissions to role `transform`
GRANT ALL ON WAREHOUSE COMPUTE_WH TO ROLE transform;
GRANT ALL ON DATABASE AIRBNB to ROLE transform;
GRANT ALL ON ALL SCHEMAS IN DATABASE AIRBNB to ROLE transform;
GRANT ALL ON FUTURE SCHEMAS IN DATABASE AIRBNB to ROLE transform;
GRANT ALL ON ALL TABLES IN SCHEMA AIRBNB.RAW to ROLE transform;
GRANT ALL ON FUTURE TABLES IN SCHEMA AIRBNB.RAW to ROLE transform;
```

SNOWFLAKE DATA IMPORT

Copy these SQL statements into a Snowflake Worksheet, select all and execute them (i.e. pressing the play button).

```
-- Set up the defaults
USE WAREHOUSE COMPUTE_WH;
USE DATABASE airbnb;
USE SCHEMA RAW;

-- Create our three tables and import the data from S3
CREATE OR REPLACE TABLE raw_listings
  (id integer,
   listing_url string,
   name string,
   room_type string,
   minimum_nights integer,
   host_id integer,
   price string,
   created_at datetime,
```

```

        updated_at datetime);

COPY INTO raw_listings (id,
                        listing_url,
                        name,
                        room_type,
                        minimum_nights,
                        host_id,
                        price,
                        created_at,
                        updated_at)
  from 's3://dbtlearn/listings.csv'
  FILE_FORMAT = (type = 'CSV' skip_header = 1
  FIELD_OPTIONALLY_ENCLOSED_BY = '"');

CREATE OR REPLACE TABLE raw_reviews
  (listing_id integer,
   date datetime,
   reviewer_name string,
   comments string,
   sentiment string);

COPY INTO raw_reviews (listing_id, date, reviewer_name, comments, sentiment)
  from 's3://dbtlearn/reviews.csv'
  FILE_FORMAT = (type = 'CSV' skip_header = 1
  FIELD_OPTIONALLY_ENCLOSED_BY = '"');

CREATE OR REPLACE TABLE raw_hosts
  (id integer,
   name string,
   is_superhost string,
   created_at datetime,
   updated_at datetime);

COPY INTO raw_hosts (id, name, is_superhost, created_at, updated_at)
  from 's3://dbtlearn/hosts.csv'
  FILE_FORMAT = (type = 'CSV' skip_header = 1
  FIELD_OPTIONALLY_ENCLOSED_BY = '"');

```

