

ûdemy

# **Models**

# CODE USED IN THE LESSON

#### **DIM LISTINGS**

models/dim/dim\_listings\_cleansed.sql :

```
WITH src_listings AS (
 SELECT
 FROM
{{ ref('src_listings') }}
SELECT
listing_id,
 listing_name,
 room_type,
CASE
 WHEN minimum_nights = 0 THEN 1
ELSE minimum_nights
 END AS minimum_nights,
 host id,
 REPLACE (
  price_str,
   1$1
  ) :: NUMBER(
   10,
 ) AS price,
  created_at,
  updated_at
FROM
src_listings
```

#### **DIM HOSTS**

 ${\tt models/dim/dim\_hosts\_cleansed.sql:}$ 

```
created_at,
updated_at
FROM
src_hosts
```

### **EXERCISE**

Create a new model in the <code>models/dim/</code> folder called <code>dim\_hosts\_cleansed.sql</code> .

- Use a CTE to reference the src hosts model
- SELECT every column and every record, and add a cleansing step to host\_name:
  - o If host\_name is not null, keep the original value
  - If host\_name is null, replace it with the value 'Anonymous'
  - Use the NVL(column\_name, default\_null\_value) function
     Execute dbt run and verify that your model has been created

#### **SOLUTION**

## **INCREMENTAL MODELS**

The fct/fct reviews.sql model:

```
{{
  config(
    materialized = 'incremental',
    on_schema_change='fail'
    }
}
WITH src_reviews AS (
  SELECT * FROM {{ ref('src_reviews') }}
)
SELECT * FROM src_reviews
WHERE review_text is not null

{% if is_incremental() %}
  AND review_date > (select max(review_date) from {{ this }})
{% endif %}
```

Get every review for listing 3176:

```
SELECT * FROM "AIRBNB"."DEV"."FCT_REVIEWS" WHERE listing_id=3176;
```

Add a new record to the table:

```
INSERT INTO "AIRBNB"."RAW"."RAW_REVIEWS"
VALUES (3176, CURRENT_TIMESTAMP(), 'Zoltan', 'excellent stay!', 'positive');
```

#### Making a full-refresh:

```
dbt run --full-refresh
```

## **DIM LISTINGS WITH HOSTS**

The contents of  ${\tt dim/dim\_listings\_w\_hosts.sql}$  :

```
1 AS (
   SELECT
   FROM
      {{ ref('dim listings cleansed') }}
),
   SELECT *
   FROM {{ ref('dim_hosts_cleansed') }}
)
SELECT
  l.listing_id,
  1.listing_name,
1.room_type,
  l.minimum_nights,
   l.price,
   l.host_id,
   h.host_name,
  h.is_superhost as host_is_superhost,
   1.created at,
   GREATEST (1.updated at, h.updated at) as updated at
FROM 1
LEFT JOIN h ON (h.host id = 1.host id)
```

# DROPPING THE VIEWS AFTER EPHEMERAL MATERIALIZATION

```
DROP VIEW AIRBNB.DEV.SRC_HOSTS;
DROP VIEW AIRBNB.DEV.SRC_LISTINGS;
DROP VIEW AIRBNB.DEV.SRC_REVIEWS;
```

