**DBT ASSIGNMENT**

SOURCE DATA: Source data is a public dataset name thelook ecommerce dataset from google big query

STAGING MODEL: Three models and three yaml files were created as shown below:

The models are shown below:

First model

WITH source AS (

    SELECT \* FROM

    {{source('thelook\_ecommerce', 'orders')}}

)

SELECT order\_id, user\_id,

       created\_at, returned\_at,

       delivered\_at, shipped\_at,

       status,

       num\_of\_item as num\_items\_ordered

    FROM source

Second model

WITH source AS (

    SELECT \* FROM

    {{source('thelook\_ecommerce', 'order\_items')}}

)

SELECT id as order\_item\_id,

       order\_id,

       user\_id,

       product\_id,

       sale\_price as item\_sale\_price

    FROM source

Third model:

WITH source AS (

    SELECT \* FROM

    {{source('thelook\_ecommerce', 'products')}}

)

SELECT id as product\_id,

       cost,

       retail\_price,

       department,

       brand

    FROM source

**The yaml files are shown below**

First yaml file

version: 2

models:

  - name: stg\_ecommerce\_orders

    description: "my stage ecommerce orders table"

    columns:

      - name: order\_id

        description: "my order id column"

        tests:

          - not\_null

          - unique

      - name: user\_id

        description: "user id column"

      - name: status

        description: "my status column"

        tests:

          - accepted\_values:

              name: unexpected\_order\_status

              values:

                - Processing

                - Cancelled

                - Shipped

                - Complete

                - Returned

      - name: created\_at

        description: "created at column"

second yaml file

version: 2

models:

  - name: stg\_ecommerce\_order\_items

    description: "my stage ecommerce order item table"

    columns:

      - name: order\_item\_id

        description: "my order item id column"

        tests:

          - not\_null

          - unique

      - name: order\_id

        description: "order id column"

        tests:

          - not\_null

          - relationships:

              to: ref('stg\_ecommerce\_orders')

              field: order\_id

      - name: user\_id

        description: "my user id column"

        tests:

          - not\_null

      - name: product\_id

        description: "product id column"

        tests:

          - not\_null

          - relationships:

              to: ref('stg\_ecommerce\_orders')

              field: product\_id

      - name: item\_sale\_price

        description: "item sale column"

        tests:

          - not\_null

Third yaml file

version: 2

models:

  - name: stg\_ecommerce\_products

    description: "my stage ecommerce product table"

    columns:

      - name: product\_id

        description: "my product id column"

        tests:

          - not\_null

          - unique

      - name: cost

        description: "cost column"

        tests:

          - not\_null

      - name: retail\_price

        description: "retail price column"

        tests:

          - not\_null

      - name: department

        description: "department column"

        tests:

          - not\_null

          - accepted\_values:

              values:

                -"Men"

                -"Women"

      - name: brand

        description: "brand column"

Intermediate stage: A model was created for joining the tables as shown below:

WITH products AS (

    SELECT id as product\_id,

       cost as product\_cost,

       retail\_price as product\_retail\_price,

       department as product\_department

    FROM {{ ref('stg\_ecommerce\_products')}}

)

SELECT

    order\_items.order\_item\_id,

    order\_items.order\_id,

    order\_items.user\_id,

    order\_items.product\_id,

    order\_items.sale\_price as item\_sale\_price,

    products.product\_department,

    products.product\_cost,

    products.product\_retail\_price,

    order\_items.sale\_price - products.product\_cost AS Item\_profit,

    products.product\_retail\_price - order\_items.item\_sale\_price as item\_discount

FROM {{ ref('stg\_ecommerce\_order\_items')}} AS order\_items

LEFT JOIN products ON order\_items.product\_id = products.product\_id