

**SNOWFLAKE ASSIGNMENT 1**

1. **Load the given dataset into snowflake with a primary key to Order Date column**.

<https://drive.google.com/drive/folders/1YktkyxlphjA1TmIO2GUXL9elUf1s4sfn>

CREATE DATABASE DEMO\_DATABASE COMMENT = 'FOR PRACTICE ONLY';

use warehouse DEMO\_WAREHOUSE;

USE database DEMO\_DATABASE;

CREATE OR REPLACE TABLE sb\_sales\_data(

ORDER\_ID varchar(45) ,

ORDER\_DATE varchar(12)primary key,

SHIP\_DATE varchar(12),

SHIP\_MODE varchar(20),

CUSTOMER\_NAME varchar(50),

SEGMENT varchar(25),

STATE varchar(50),

COUNTRY varchar(60),

MARKET varchar(25),

REGION varchar(30),

Product\_ID varchar(25),

CATEGORY varchar(25),

SUB\_CATEGORY varchar(25),

PRODUCT\_NAME varchar(200),

Sales string,

Quantity string,

Discount number(10,4),

Profit number(15,5),

Shipping\_cost number(10,4),

Order\_priority varchar(15),

year string not null

);

1. **Change the Primary key to Order Id Column**.

-- Create a new table with "Order ID" as the primary key

CREATE OR REPLACE TABLE sb\_sales\_data1 AS

SELECT \*

FROM sb\_sales\_data

PRIMARY KEY ("Order ID");

-- Copy data from the old table to the new table

INSERT INTO sb\_sales\_data1

SELECT \*

FROM sb\_sales\_data;

DROP TABLE sb\_sales\_data;

1. **Check the data type for Order date and Ship date and mention in what data type it should be?**

The data type is in varchar for Order date and Ship date . it should be in date data type.

1. **Create a new column called order\_extract and extract the number after the last ‘–‘from Order ID column.**

ALTER TABLE sb\_sales\_data

ADD COLUMN order\_extract STRING; -- You can adjust the data type as needed

-- Update the "order\_extract" column with the extracted number

UPDATE sb\_sales\_data

SET order\_extract = SPLIT\_PART("Order ID", '-', -1);

1. **Create a new column called Discount Flag and categorize it based on discount. Use ‘Yes’ if the discount is greater than zero else ‘No’.**

- Create a new column called "Discount Flag" based on the discount value

ALTER TABLE sb\_sales\_data

ADD COLUMN Discount\_Flag STRING;

-- You can adjust the data type as needed

-- Update the "Discount Flag" column based on the "Discount" column

UPDATE YourTable

SET Discount\_Flag = CASE

WHEN Discount > 0 THEN 'Yes'

ELSE 'No'

END;

1. **Create a new column called process days and calculate how many days it takes for each order id to process from the order to its shipment.**

ALTER TABLE sb\_sales\_data

ADD COLUMN Process\_days int;

UPDATE sb\_sales\_data

SET Process\_days =DATEDIFF(DAY,ORDER\_DATE,SHIP\_DATE);

1. **Create a new column called Rating and then based on the Process dates give rating like given below.**

* 1. **If process days less than or equal to 3days then rating should be 5**
  2. **If process days are greater than 3 and less than or equal to 6 then rating should be 4**
  3. **If process days are greater than 6 and less than or equal to 10 then rating should be 3**
  4. **If process days are greater than 10 then the rating should be 2**.

ALTER TABLE sb\_sales\_data

ADD COLUMN ProcessDays\_Rating int;

UPDATE sb\_sales\_data

SET Rating = CASE

WHEN ProcessDays <= 3 THEN 5

WHEN ProcessDays > 3 AND ProcessDays <= 6 THEN 4

WHEN ProcessDays > 6 AND ProcessDays <= 10 THEN 3

ELSE 2

END;