**Snowflake Assignment -1**

**--Create Table**

USE DATABASE DEMO\_DATABASE;

CREATE OR REPLACE TABLE SW\_SALES\_DATA

(

ORDER\_ID VARCHAR(25),

ORDER\_DATE STRING PRIMARY KEY,

SHIP\_DATE STRING,

SHIP\_MODE VARCHAR(20),

CUSTOMER\_NAME VARCHAR(50),

SEGMENT VARCHAR(40),

STATE VARCHAR(60),

COUNTRY VARCHAR(50),

MARKET CHAR(10),

REGION VARCHAR(20),

PRODUCT\_ID VARCHAR2(50),

CATEGORY VARCHAR(70),

SUB\_CATEGORY VARCHAR(60),

PRODUCT\_NAME VARCHAR2(200),

SALES NUMBER(10,2),

QUANTITY NUMBER(4,2),

DISCOUNT FLOAT,

PROFIT FLOAT,

SHIPPING\_COST FLOAT,

ORDER\_PRIORITY CHAR(10),

YEAR CHAR(4)

);

DESCRIBE TABLE SW\_SALES\_DATA;

SELECT \* FROM SW\_SALES\_DATA;

**--CREATE A COPY OF TABLE**

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT \* FROM SW\_SALES\_DATA;

SELECT \* FROM SW\_SALES\_DATA\_COPY;

DESCRIBE TABLE SW\_SALES\_DATA\_COPY;

**--2. CHANGE THE PRIMARY KEY TO ORDER\_ID COLUMN**

ALTER TABLE SW\_SALES\_DATA\_COPY

ADD PRIMARY KEY(ORDER\_ID);

DESCRIBE TABLE SW\_SALES\_DATA\_COPY;

**--3. CHECK THE DATA TYPE FOR ORDER DATE AND SHIP DATE AND MENTION IN WHAT DATA TYPE IT SHOULD BE**

SELECT get\_ddl ('table','SW\_SALES\_DATA\_COPY');

SELECT \* FROM SW\_SALES\_DATA\_COPY;

**--ORDER\_DATE AND SHIP\_DATE IS IN MM/DD/YYYY FORMAT BUT IT SHOULD BE IN YYYY/MM/DD FORMAT**

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT \*,TO\_DATE(ORDER\_DATE :: varchar,'MM/dd/yyyy')AS ORDER\_DATE\_NEW

FROM SW\_SALES\_DATA\_COPY;

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT\*, TO\_DATE(SHIP\_DATE :: varchar,'MM/dd/yyyy')AS SHIP\_DATE\_NEW

FROM SW\_SALES\_DATA\_COPY;

SELECT \* FROM SW\_SALES\_DATA\_COPY;

**--4. CREATE A NEW COLUMN CALLED ORDER\_EXTRACT AND EXTRACT THE NUMBER AFTER THE LAST - FROM ORDER ID COLUMN**

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT \*, SUBSTR(ORDER\_ID,9) as ORDER\_EXTRACT FROM SW\_SALES\_DATA\_COPY;

SELECT ORDER\_ID, ORDER\_EXTRACT FROM SW\_SALES\_DATA\_COPY;

**--5. 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 OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT \*, CASE

WHEN DISCOUNT > 0 THEN 'YES'

ELSE 'NO'

END AS DISCOUNT\_FLAG

FROM SW\_SALES\_DATA\_COPY;

SELECT DISCOUNT, DISCOUNT\_FLAG FROM SW\_SALES\_DATA\_COPY;

**--6. CREATE A NEW COLUMN CALLED 'PROCESS\_DAYS' AND CALCULATE HOW MANY DAYS IT TAKES FOR EACH ORDER ID TO PROCESS FROM ORDER TO ITS SHIPMENT**

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS SELECT \*, DATEDIFF('DAY',ORDER\_DATE\_NEW ,SHIP\_DATE\_NEW) AS PROCESS\_DAYS

FROM SW\_SALES\_DATA\_COPY;

SELECT ORDER\_DATE\_NEW, SHIP\_DATE\_NEW, PROCESS\_DAYS FROM SW\_SALES\_DATA\_COPY;

**--7. CREATE A NEW COLUMN CALLED 'RATING' AND THEN BASED ON THE PROCESS DATES GIVE RATING LIKE GIVEN BELOW.**

--a. If process days less then or equal to 3 days then rating should be 5

--b. If process days are greater then 3 or less then or equal to 6 then rating should be 4

--c. If process days are greater then 6 or less then or equal to 10 then rating should be 3

--d. If process days are greater then 10 then the rating should be 2.

CREATE OR REPLACE TABLE SW\_SALES\_DATA\_COPY AS

SELECT \*,

CASE

WHEN PROCESS\_DAYS <=3 THEN 5

WHEN PROCESS\_DAYS >3 OR PROCESS\_DAYS<=6 THEN 4

WHEN PROCESS\_DAYS >=7 OR PROCESS\_DAYS<=10 THEN 3

ELSE 2

END AS RATING

FROM SW\_SALES\_DATA\_COPY;

SELECT PROCESS\_DAYS, RATING FROM SW\_SALES\_DATA\_COPY;