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

create table sales\_data\_final

(order\_id varchar(50) primary key,

order\_date date,

ship\_date date,

ship\_mode varchar(50),

customer\_name varchar(50),

segment varchar(50),

state varchar(50),

country varchar(50),

market varchar(50),

region varchar(50),

product\_id varchar(50),

category varchar(50),

sub\_category varchar(50),

product\_name varchar(200),

sales int,

quantity int,

discount number(10,5),

profit number(10,5),

shipping\_cost number(10,5),

order\_priority varchar(50),

year int);

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

ALTER TABLE sales\_data\_final

DROP PRIMARY KEY;

alter table sales\_data\_final

add primary key(ORDER\_ID);

**3. Check the data type for Order date and Ship date and mention in what data type**

**it should be?**

I HAVE SET THE FORMAT OF SHIP\_DATE AND ORDER\_ID INTO PROPER DATE FORMAT IN EXCEL BEFORE UPLOADIND IT, AND WHILE CREATING TABLE I TOOK BOTH COLOUMN AS A DATE DATA TYPE.

**4. Create a new column called order\_extract and extract the number after the last**

**‘–‘from Order ID column.**

alter table sales\_data\_final

add column ORDER\_EXTRACT int;

update sales\_data\_final

set ORDER\_EXTRACT = SUBSTRING(ORDER\_ID,9,10);

**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’.**

select \*,

case

when discount > 0 then 'yes'

else 'NO'

end as discount\_label

from sales\_data\_final;

**6. 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 sales\_data\_final

add column PROCESS\_DAY int;

update sales\_data\_final

set PROCESS\_DAY = (datediff('day',ORDER\_DATE,SHIP\_DATE));

**7. Create a new column called Rating and then based on the Process dates give**

**rating like given below.**

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

**b. If process days are greater than 3 and less than or equal to 6 then rating**

**should be 4**

**c. If process days are greater than 6 and less than or equal to 10 then rating**

**should be 3**

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

select \*,

case

when PROCESS\_DAY <= 3 then 'RATING IS 5'

when PROCESS\_DAY <= 6 then 'RATING IS 4'

when PROCESS\_DAY <= 10 then 'RATING IS 3'

when PROCESS\_DAY > 10 then 'RATING IS 2'

end as RATING\_ON\_PROCESS\_DAY

from sales\_data\_final;