**1. SET PRIMARY KEY.**

alter table RK\_sales\_data\_final

ADD PRIMARY KEY (order\_id);

**2. CHECK THE ORDER DATE AND SHIP DATE TYPE AND THINK IN WHICH DATA TYPE YOU HAVE TO CHANGE.**

# Add a column to existing table to hold the DATE datatype.

**Order\_Date:**

ALTER TABLE RK\_sales\_data\_final ADD Column ORDER\_DATES Date;

**Ship\_Date:**

ALTER TABLE RK\_sales\_data\_final ADD Column SHIP\_DATES Date;

# Set this new column's value to hold the old\_column's value converted to a DATE value.

**Order\_Date:**

UPDATE RK\_sales\_data\_final SET ORDER\_DATES=TO\_DATE (ORDER\_DATE,'MM-DD-YYYY');

**Ship\_Date:**

UPDATE RK\_sales\_data\_final SET SHIP\_DATES=TO\_DATE (SHIP\_DATE,'MM-DD-YYYY');

# Drop the old column.

**Order\_Date:**

ALTER TABLE RK\_sales\_data\_final DROP (ORDER\_DATE);

**Ship\_Date:**

ALTER TABLE RK\_sales\_data\_final DROP (SHIP\_DATE);

#Rename the new column to be the old column's name.

**Order\_Date:**

ALTER TABLE RK\_sales\_data\_final RENAME Column ORDER\_DATES TO ORDER\_DATE;

**Ship\_Date:**

ALTER TABLE RK\_sales\_data\_final RENAME Column SHIP\_DATES TO SHIP\_DATE;

**3. EXTRACT THE LAST NUMBER AFTER THE - AND CREATE OTHER COLUMN AND UPDATE IT.**

ALTER TABLE RK\_sales\_data\_final Add Column New\_Order\_ID varchar (40);

Update RK\_sales\_data\_final SET New\_Order\_ID =

(select right (order\_id, charindex('-', reverse(order\_id)) - 1));

**4.  FLAG, IF DISCOUNT IS GREATER THEN 0 THEN YES ELSE FALSE AND PUT IT IN NEW COLUMN FRO EVERY ORDER ID.**

ALTER TABLE RK\_sales\_data\_final Add Column Profit\_Analysis varchar (10);

Update RK\_sales\_data\_final SET Profit\_Analysis = (CASE WHEN DISCOUNT > 0 THEN 'Yes' ELSE 'NO' END);

**5.  FIND OUT THE FINAL PROFIT AND PUT IT IN COLUMN FOR EVERY ORDER ID.**

**--/\* Didn’t understand the question\*/.**

**6.  FIND OUT HOW MUCH DAYS TAKEN FOR EACH ORDER TO PROCESS FOR THE SHIPMENT FOR EVERY ORDER ID.**

SELECT Order\_ID,

DATEDIFF (ship\_date, order\_date) AS No\_of\_days FROM RK\_sales\_data\_final;

**7. FLAG THE PROCESS DAY AS BY RATING IF IT TAKES LESS OR EQUAL 3 DAYS MAKE 5, LESS OR EQUAL THAN 6 DAYS BUT MORE THAN 3 MAKE 4, LESS THAN 10 BUT MORE THAN 6 MAKE 3, MORE THAN 10 MAKE IT 2 FOR EVERY ORDER ID.**

**Select**

**Case**

**When Ship\_date <= 3 Then ‘5’**

**When Ship\_date <=6 and Ship\_Date >3 Then ‘4’**

**When Ship\_Date <10 and Ship\_date >6 Then ‘3’**

**When Ship\_Date >10 Then ‘2’**

**Else ‘1’**

**END as Rating**

**From RK\_sales\_data\_final;**