Data Cleansing Steps

In a single query, perform the following operations and generate a new table in the data_mart schema named clean_weekly_sales:

Add a week_number as the second column for each week_date value, for example any value from the 1st of January to 7th of January will be 1, 8th to 14th will be 2, etc.

Add a month_number with the calendar month for each week_date value as the 3rd column

Add a calendar_year column as the 4th column containing either 2018, 2019 or 2020 values

Add a new column called age_band after the original segment column using the following mapping on the number inside the segment value

Add a new demographic column using the following mapping for the first letter in the segment values:

segment demographic	I
C Couples	
F Families	

Ensure all null string values with an "unknown" string value in the original segment column as well as the new age_band and demographic columns

Generate a new avg_transaction column as the sales value divided by transactions rounded to 2 decimal places for each record

ANS-----use case1;

create table clean_weekly_sales as select week_date, week(week_date) as week_number, month(week_date) as month_number, year(week_date) as calendar_year,

region,platform ,case when segment='null' then 'unknown' else segment end as segment,case when right(segment,1)='1' then 'Young Adults'

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when right(segment,1)='2' then 'Middle Aged' when right(segment,1)='3' or '4'then 'Retires' else 'unknown' end as age_band ,case when left(segment,1)='C' then 'Couples' when left(segment,1)='F' then 'Families' else 'unknown' end as demographic
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as avg transaction from weekly sales;

,customer type,transactions,sales,round(sales / transactions,2)

Data Exploration

Which week numbers are missing from the dataset?

How many total transactions were there for each year in the dataset?

What are the total sales for each region for each month?

What is the total count of transactions for each platform

What is the percentage of sales for Retail vs Shopify for each month?

What is the percentage of sales by demographic for each year in the dataset?

Which age_band and demographic values contribute the most to Retail sales?

dis_wk from clean_weekly_sales);
Q2select calendar_year,sum(transactions)as total_transactions from clean_weekly_sales group by calendar_year order by calendar_year;
Q3select region,month_number,sum(sales) as total_sales from clean_weekly_sales group by
region,month_number order by month_number,region; Q4
select platform,count(transactions) as tot_cnt from clean_weekly_sales group by platform;
Q5
create view v as (select calendar_year,month_number ,sum(sales) as total from clean_weekly_sales where platform='retail' group by month_number,calendar_year order by month_number);
create view v1 as (select calendar_year, month_number ,sum(sales) as total1 from clean_weekly_sales where platform='shopify' group by month_number,calendar_year order by month_number);
select month_number,calendar_year,round((select total from v where month_number=c.month_number and calendar_year=c.calendar_year)/sum(sales)*100,2) as retail_per,
round((select total1 from v1 where month_number=c.month_number and calendar_year=c.calendar_year)/sum(sales)*100,2) as shopify_per
from clean_weekly_sales as c group by month_number,calendar_year order by month_number;
Q6

select x as week_number from seq52 where x not in (select_distinct_week_number as

select calendar_year,demographic ,sum(sales) as yearly_sales,round((sum(sales)/(select t from vw where calendar_year=cws.calendar_year))*100,2) as percentage_in_sales from clean_weekly_sales as cws group by calendar_year,demographic order by calendar_year; create view vw as (select sum(sales) as t ,calendar_year from clean_weekly_sales group by calendar_year);

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with cte as (select sum(sales) as tot,age_band,demographic from clean_weekly_sales where platform='retail' group by age_band,demographic)

select age_band,demographic from cte where tot=(select max(tot) from cte);