Codebasics Resume Project Challenge#6

Providing Insights to the Marketing Team in Food and Beverage Industry



https://codebasics.io/challenge/codebasics-resume-project-challenge

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Introduction

CodeX is a German beverage company that is aiming to make its mark in the Indian market. A few months ago, they launched their energy drink in 10 cities in India.

Their Marketing team is responsible for increasing brand awareness, market share, and product development. They conducted a survey in those 10 cities and received results from **10k** respondents.

Problem Statement

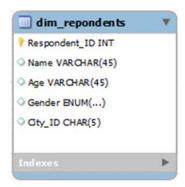
As a marketing data analyst, the task is to convert these survey results into meaningful insights that the team can use to drive actions.

Tables

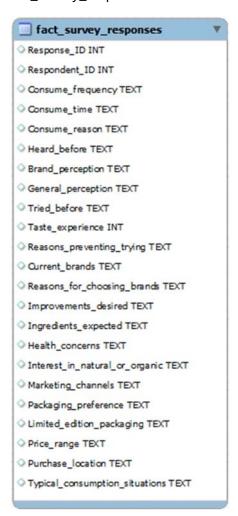
1. dim_cities table with three columns



2. dim_repondents table with five columns



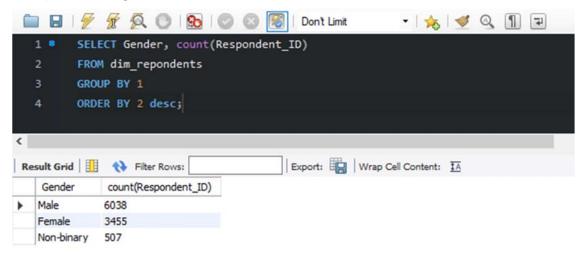
3. fact_survey_responses table with 23 columns



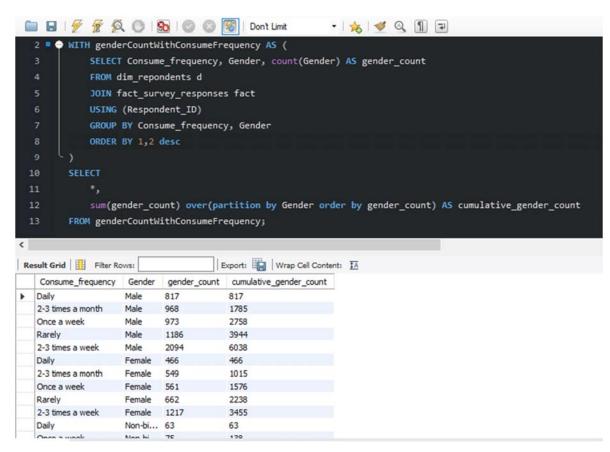
Questions along with Insights

Demographic Insights

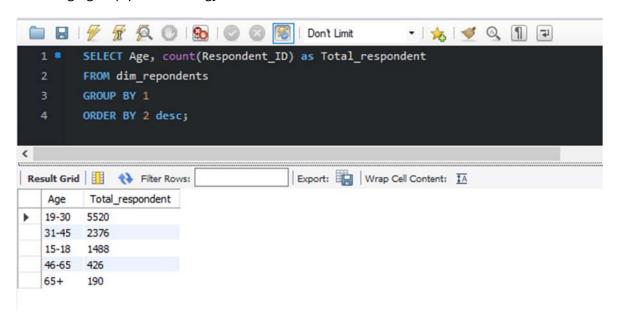
1. Who prefers energy drinks more? (Male/Female/Non-binary)



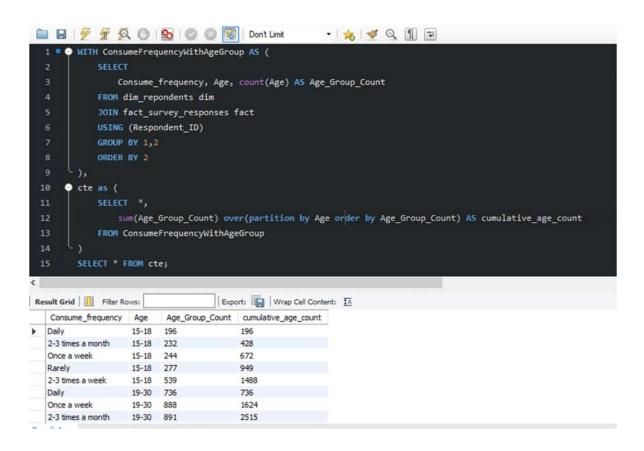
Doing a more detailed analysis by including consumption frequency by Gender



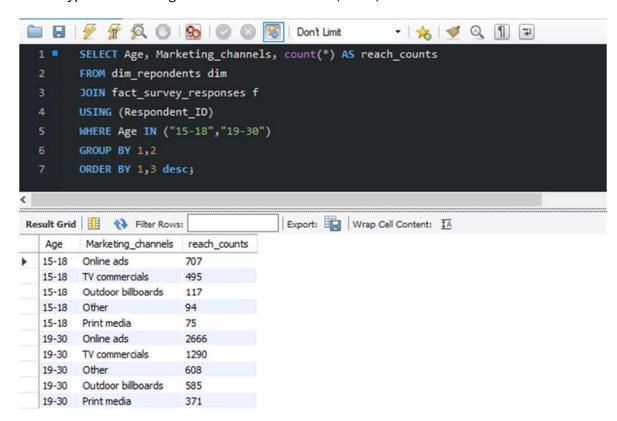
2. Which age group prefers energy drinks more?



By doing more analysis and deciding on consumption frequency,

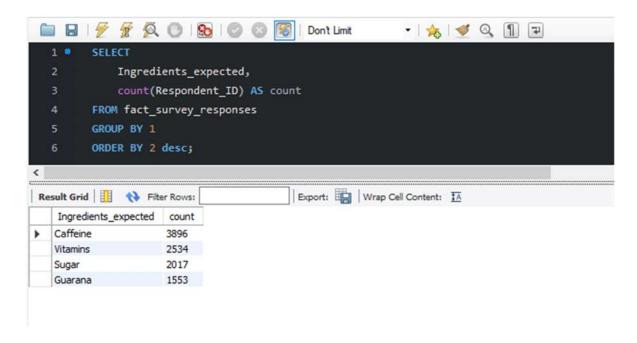


3. Which type of marketing reaches the most Youth (15-30)?

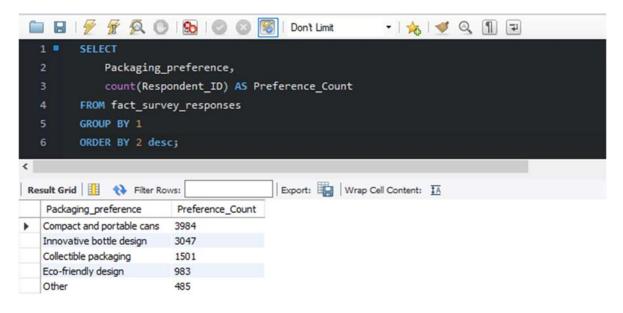


Consumer Preferences

1. What are the preferred ingredients of energy drinks among respondents?

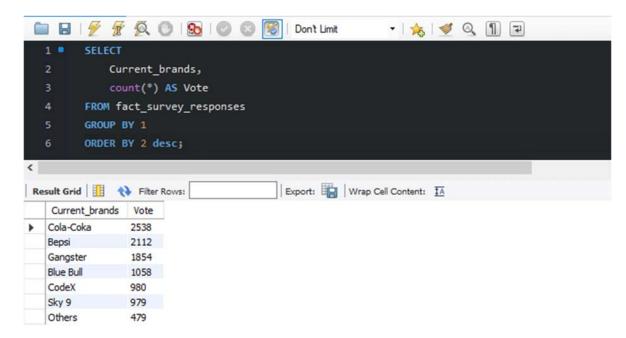


2. What packaging preferences do respondents have for energy drinks?

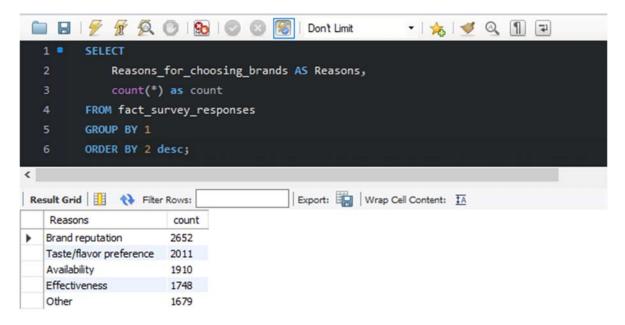


Competition Analysis

1. Who are the current market leaders?

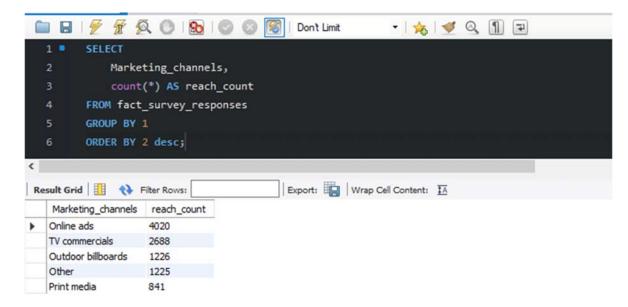


2. What are the primary reasons consumers prefer those brands over ours?

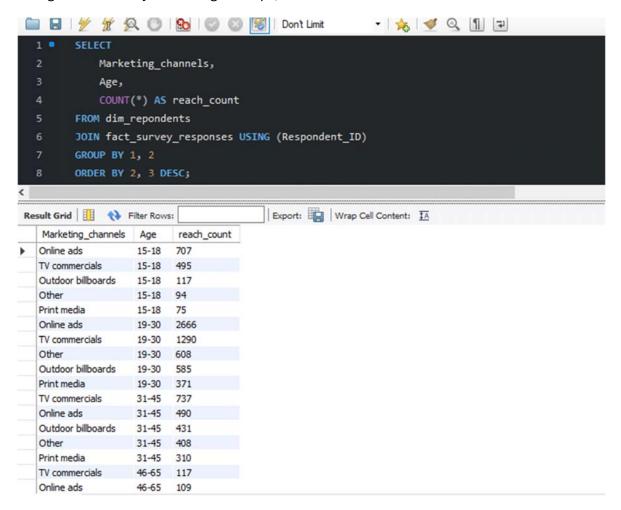


Marketing Channels and Brand Awareness

1. Which marketing channel can be used to reach more customers?



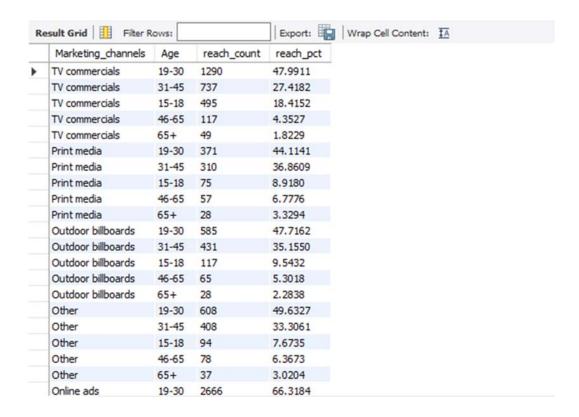
Doing detailed analysis with Age Groups,



2. How effective are different marketing strategies and channels in reaching our

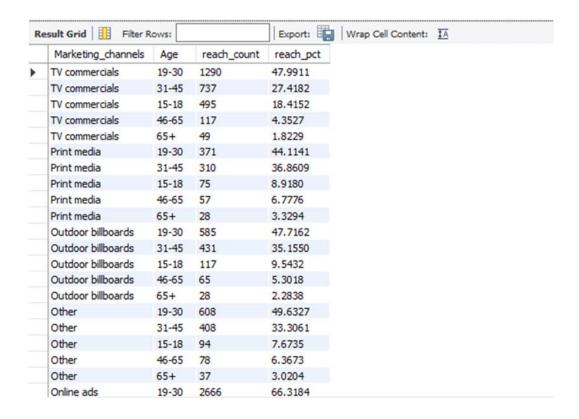
customers?

Each channel analysis with Age Group,



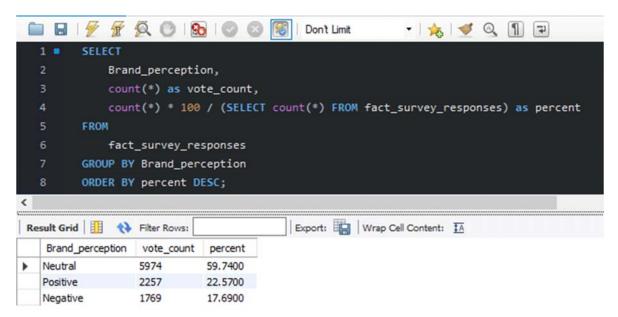
All channels analyzed with Age Group,

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                                                       Don't Limit
         WITH cte4 AS (
                 Marketing_channels,
                 Age,
                 COUNT(*) AS reach_count
             FROM dim_repondents
             JOIN fact_survey_responses USING (Respondent_ID)
             GROUP BY 1, 2
             ORDER BY 2, 3 DESC
      - cte5 AS (
                 SUM(reach_count) OVER(PARTITION BY Age ORDER BY reach_count) AS cumulative_reach_count
14
             FROM cte4
             ROUND((cumulative_reach_count * 100 / (SELECT COUNT(*) FROM fact_survey_responses)), 1) AS percent
20
         WHERE cumulative_reach_count IN (1488, 5520, 2376, 426, 190);
```



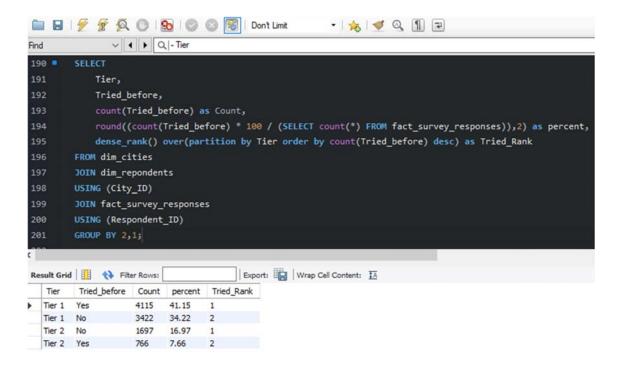
Brand Penetration

1. What do people think about our brand? (Overall rating)

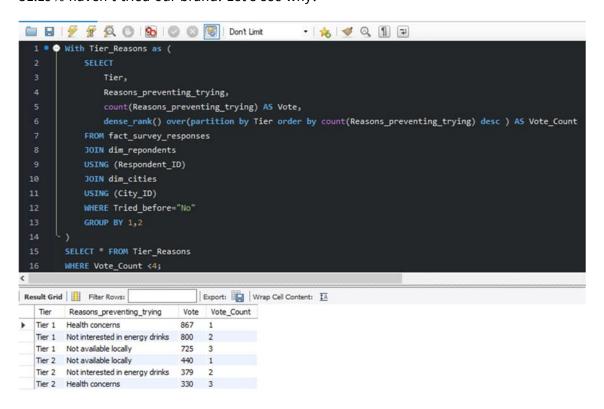


Doing more analysis on

How many percent of the consumers have tried our brand or not?

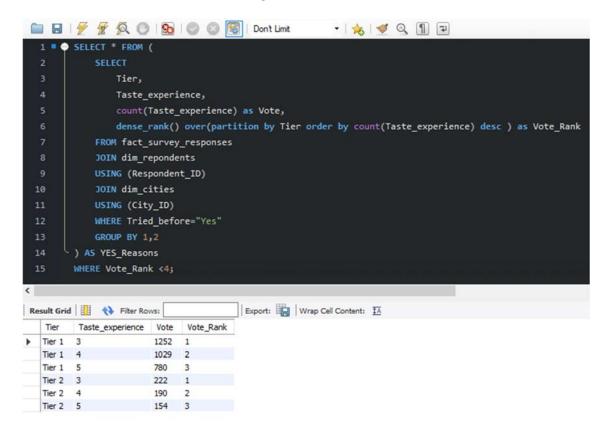


51.19% haven't tried our brand! Let's see why?

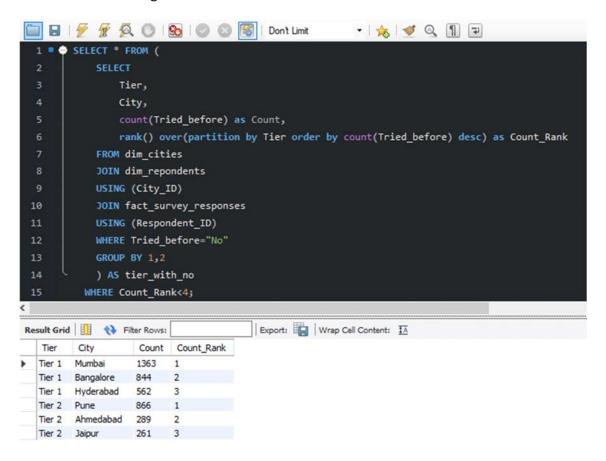


The rest 48.8% have tried,

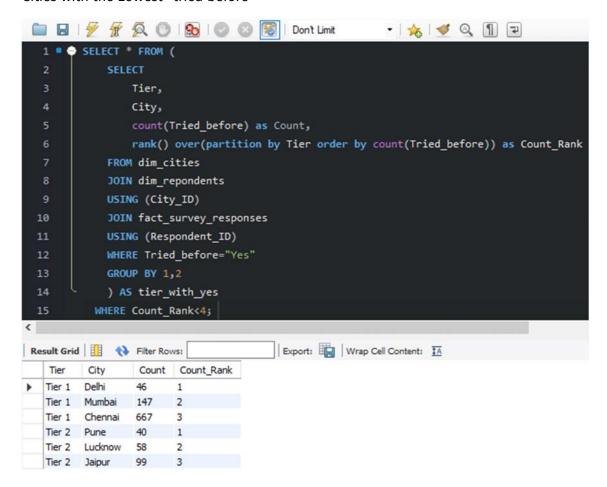
but still, why does the brand is having more neutral votes from consume



2. Which cities do we need to focus more on? Cities with the highest "Not tried before"

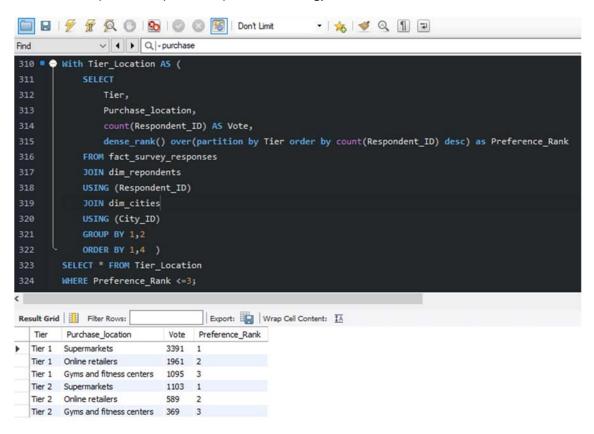


Cities with the Lowest "tried before"

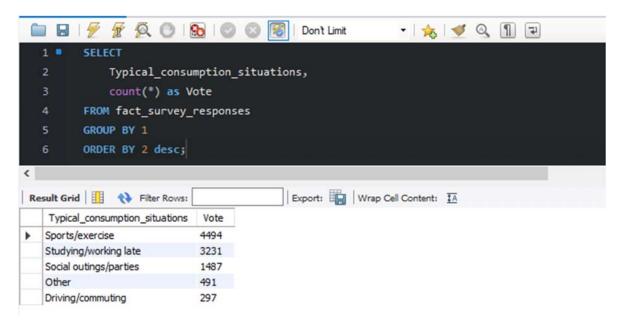


Purchase Behavior

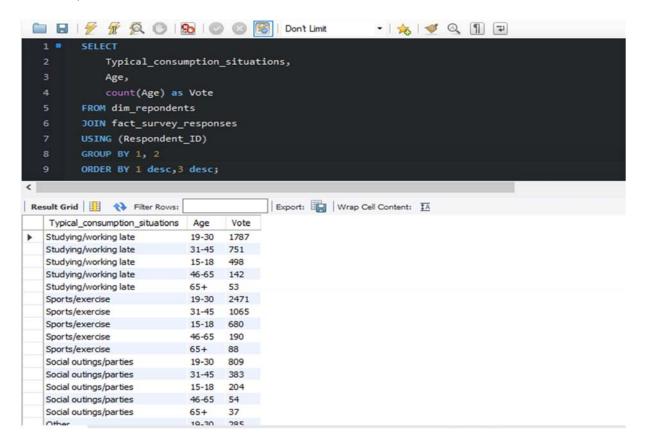
1. Where do respondents prefer to purchase energy drinks?



2. What are the typical consumption situations for energy drinks among respondents?

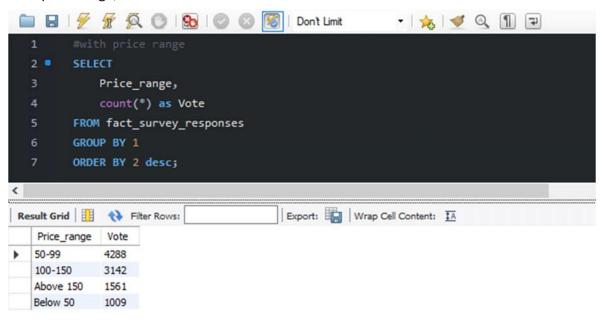


By seeing which Age Group has more preference depending on each consumption situation,

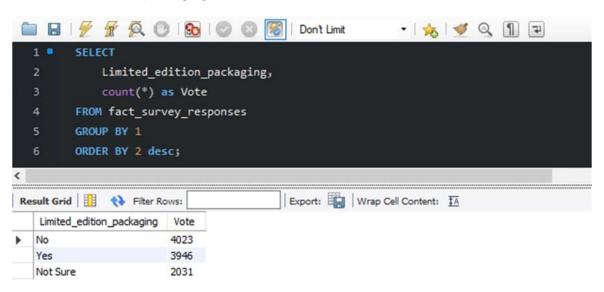


3. What factors influence respondents' purchase decisions, such as price range and limited-edition packaging?

With price range,



With limited edition packaging,



Covered Topics

The SQL topics covered in this challenge are:

- Joins
- WHERE clause
- GROUP BY clause
- ORDER BY clause
- Sub-queries
- CTEs
- Windows functions
- Aggregate functions

Insights and Recommendation

- 1. CodeX should immediately improve its taste and flavor to stay on the line with the competitors. Their marketing team should consider the preferred ingredients from the consumers such as caffeine, vitamins, and sugar.
- 2. Since young people are driving the demand for the energy drinks market in India, CodeX should focus more on them by adapting to consumers' preferred marketing channels. In marketing channels, "Online Ads" is reaching the most to the Age Group 15-18 and 19-30 while it's "TV Commercials" for the Ages 31 and older.
- 3. CodeX energy drinks should be available more in supermarkets, online retailers, and the sports areas such as gyms and parks. Additionally, 51% of respondents from both Tiers have never tried CodeX's energy drink. Since "Not available locally" is the main reason why Tier-2 consumers have never tried the product, the marketing team should consider their products to be more available in Tier-2 cities.

- 4. CodeX's marketing team should consider having a young and sport-doing brand ambassador like a cricketer, Virat Kohli, who has one of the top most followers on Instagram. That will help with brand awareness and reputation, inspiration from young people, and many more.
- 5. CodeX can also make photo booths across different supermarkets in cities, making a contest for online short video content including their brand and rewarding the talented creator with different award categories such as the most liked and shared on social media platforms, creativity, art, and so on.