

CODEBASICS RESUME PROJECT CHALLENGE

FOOD & BEVERAGE AD_HOCINSIGHTS FOR CodeX

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INTRODUCTION

About Company:

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.

CodeX conducted a survey in those 10 cities and received results from 10k respondents.

The survey was based on consumer behavior questions like their purchasing habits, their feedback about energy drinks available in the market, pricing, packaging etc.

City	Count of Response_ID
Bangalore	2828
Hyderabad	1833
Mumbai	1510
Chennai	937
Pune	906
Kolkata	566
Ahmedabad	456
Delhi	429
Jaipur	360
Lucknow	175
Total	10000

OBJECTIVE

•Enhance Decision-Making: Improve the quality of decision-making by providing the management with quick and data-informed insights.



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•Evaluate Candidate Skills: Conduct a SQL challenge to assess candidates' proficiency in technical abilities and communication, ensuring the selection of suitable candidates with a balanced skill set.

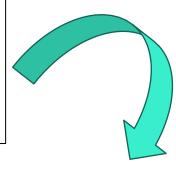


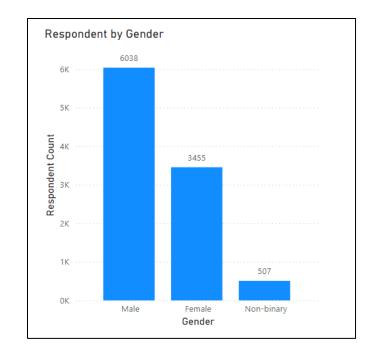
Demographic Insights

Request 1:

Who prefers energy drink more? (male/female/non-binary?)

```
SELECT
    gender, COUNT(s.Consume_frequency) as respondent
FROM
    dim_repondents AS r
        LEFT JOIN
    fact_survey_responses AS s ON r.Respondent_ID = s.Respondent_ID
GROUP BY r.gender;
```



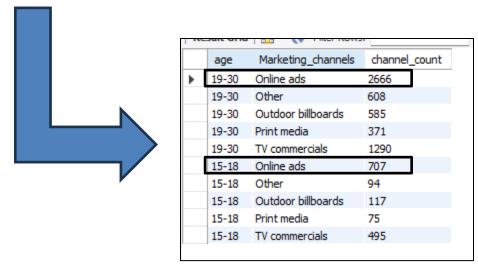


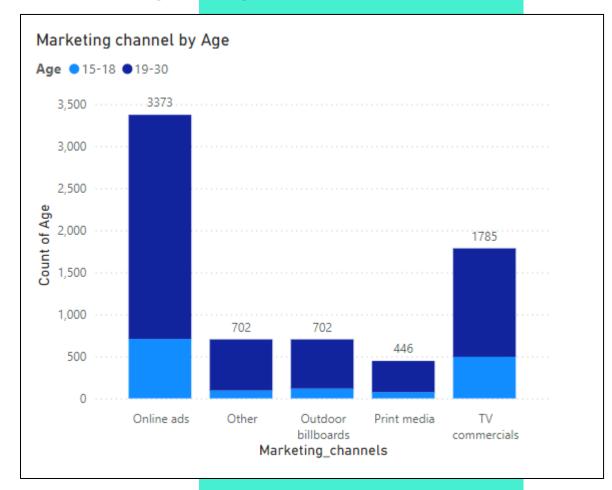
	gender	respondent
•	Female	3455
	Male	6038
	Non-binary	507

Request 2:

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

```
SELECT
    r.age,
    s.Marketing_channels,
    COUNT(s.Marketing_channels) AS channel_count
FROM
    dim_repondents AS r
INNER JOIN
    fact_survey_responses AS s ON r.Respondent_ID = s.Respondent_ID
WHERE
    r.age IN ('15-18', '19-30')
GROUP BY
    r.age, s.Marketing_channels
    order by r.age desc;
```





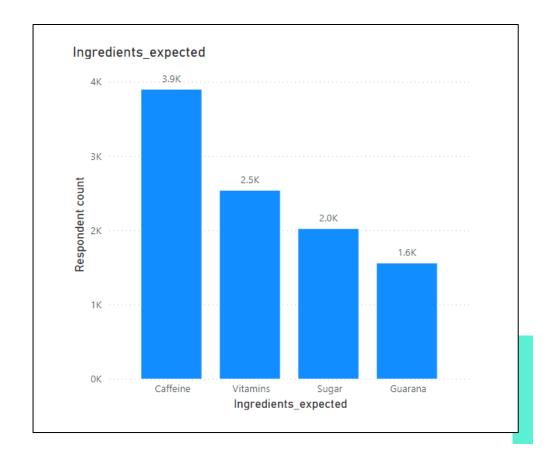
Request 3:

What are the preferred ingredients of energy drinks among respondents?

```
SELECT
    Ingredients_expected,
    COUNT(Ingredients_expected) AS count_ingredients,
    ROUND((COUNT(Ingredients_expected) * 100.0 / SUM(COUNT(Ingredients_expected)) OVER ()), 2) AS percentage
FROM
    fact_survey_responses
GROUP BY
    Ingredients_expected
ORDER BY
    count_ingredients DESC;
```



	Ingredients_expected	count_ingredients	percentage 38.96	
٠	Caffeine	3896		
	Vitamins	2534	25.34	
	Sugar	2017	20.17	
	Guarana	1553	15.53	



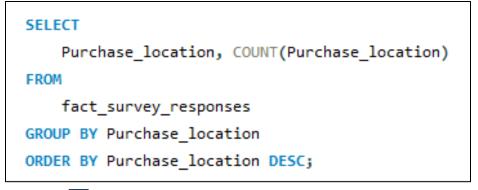
Request 4: Which cities do we need to focus more on?

```
SELECT
    c.city,
   SUM(CASE
        WHEN s.Brand_perception = 'Neutral' THEN 1
        ELSE 0
    END) * 100 / 10000 AS neutral,
    SUM(CASE
        WHEN s.Brand_perception = 'Positive' THEN 1
        ELSE 0
    END) * 100 / 10000 AS positive,
   SUM(CASE
        WHEN s.Brand_perception = 'Negative' THEN 1
        ELSE 0
    END) * 100 / 10000 AS negative
FROM
    dim_cities AS c
        JOIN
    dim_repondents AS r ON c.city_id = r.City_ID
        RIGHT JOIN
   fact_survey_responses AS s ON r.Respondent_ID = s.Respondent_ID
GROUP BY c.city
ORDER BY Neutral DESC , positive DESC , negative DESC;
```

	city	neutral	positive	negative	
)	Bangalore	18.4400	5.6600	4.1800	
	Hyderabad	11.9100	3.7600	2.6600	
	Mumbai	8.4700	4.3500	2.2800	
	Chennai	6.1500	1.9600	1.2600	
	Pune	4.1900	2.0500	2.8200	
	Kolkata	3.9300	1.0600	0.6700	
	Delhi	2.1000	1.4500	0.7400	
	Ahmedabad	2.0800	0.9900	1.4900	
	Jaipur	1.6300	0.9100	1.0600	
	Luckriow	0.8400	0.3800	0.5300	

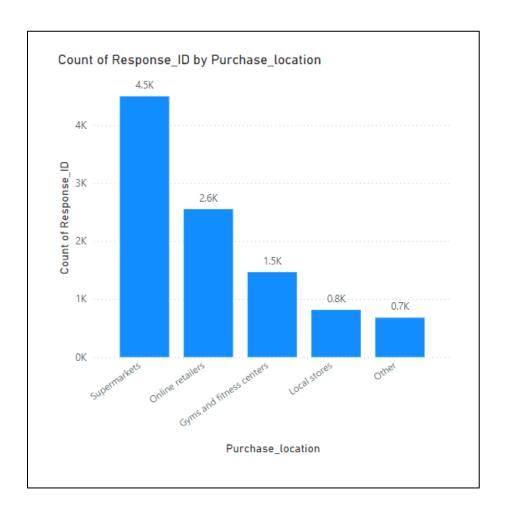
Highlighted cities have more negative impression than positive.

Request 5: Where do respondents prefer to purchase energy drinks?





	Purchase_location	count(Purchase_location)		
•	Supermarkets	4494		
	Other	679		
	Online retailers	2550		
	Local stores	813		
	Gyms and fitness centers	1464		



Recommendations For CodeX

Ideal price of our product

- The price range expected by consumers lies between **50 to 150**.
- In cities like Ahmedabad, Chennai, Hyderabad, Kolkata, Lucknow, Mumbai, and Pune consumers expect the price range to be between **50 to 99**.
- While in the rest of the cities, people are willing to pay up to 150.

Price Preference by Age						
Price_range	15-18	19-30	31-45	46-65	65+	Total
100-150	348	1365	1257	137	35	3142
50-99	687	2965	499	85	52	4288
Above 150	281	655	428	151	46	1561
Below 50	172	535	192	53	57	1009
Total	1488	5520	2376	426	190	10000
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Offers and discounts we can run

In the previous recommendation, we saw that we can **experiment** with the price in **different cities**. Also, if changing the price does not go with the brand's strategy, we can provide offers on buying the **pack of 6 cans at a cheaper cost**.

Also, each of these cities celebrates multiple **festivals** throughout the year. We can come up with the gift set packs.

