

ALL SQL CODES - CodeX Energy Drink Project

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

SELECT gender, count(*) AS respondents_count
 FROM dim_respondents
 GROUP BY gender
 ORDER BY respondents_count DESC;

	gender	Respondents_count
•	Male	6038
	Female	3455
	Non-binary	507

B. Which age group prefers energy drinks more?

SELECT age, count(*) AS Respondents_count
 FROM dim_respondents
 GROUP BY age
 ORDER BY Respondents_count DESC;

	age	Respondents_count
•	19-30	5520
	31-45	2376
	15-18	1488
	46-65	426
	65+	190

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

```
• SELECT fsr.marketing_channels, count(*) AS youth_count
FROM dim_respondents dr
JOIN fact_survey_responses fsr
ON dr.Respondent_ID = fsr.Respondent_ID
WHERE dr.age IN ('15-18' , '19-30')
GROUP BY fsr.marketing_channels
ORDER BY youth_count DESC;
```

	marketing_channels	youth_count	
•	Online ads	3373	
	TV commercials	1785	
	Other	702	
	Outdoor billboards	702	
	Print media	446	

D. What are the preferred/expected ingredients of energy drinks among respondents?

```
SELECT Ingredients_expected AS Preffered_ingredients,
count(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Preffered_ingredients
ORDER BY Respondent_count DESC;
```

	Preffered_ingredients	Respondent_count
•	Caffeine	3896
	Vitamins	2534
	Sugar	2017
	Guarana	1553

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

```
SELECT packaging_preference,
count(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Packaging_preference
ORDER BY Respondent_count DESC;
```

	packaging_preference	Respondent_count
•	Compact and portable cans	3984
	Innovative bottle design	3047
	Collectible packaging	1501
	Eco-friendly design	983
	Other	485

F. Who are the current market leaders?

```
SELECT current_brands,

COUNT(*) AS Respondent_count

FROM fact_survey_responses

GROUP BY current_brands

ORDER BY Respondent_count DESC;
```

	current_brands	Respondent_count
•	Cola-Coka	2538
	Bepsi	2112
	Gangster	1854
	Blue Bull	1058
	CodeX	980
	Sky 9	979
	Others	479

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

```
SELECT Reasons_for_choosing_brands,

COUNT(*) AS Respondent_count

FROM fact_survey_responses

GROUP BY Reasons_for_choosing_brands

ORDER BY Respondent_count DESC;
```

	Reasons_for_choosing_brands	Respondent_count
•	Brand reputation	2652
	Taste/flavor preference	2011
	Availability	1910
	Effectiveness	1748
	Other	1679

H. How effective are different marketing strategies and channels in reaching our customers?

```
SELECT
  marketing_channels,
  COUNT(*) AS total_reached,
  SUM(CASE WHEN heard_before = 'Yes' THEN 1 ELSE 0 END) AS heard_count,
  SUM(CASE WHEN tried_before = 'Yes' THEN 1 ELSE 0 END) AS tried_count
FROM fact_survey_responses
GROUP BY marketing_channels
ORDER BY total_reached DESC;
```

	marketing_channels	total_Reached	heard_count	tried_count
•	Online ads	4020	1805	2074
	TV commercials	2688	1257	961
	Outdoor billboards	1226	524	640
	Other	1225	490	756
	Print media	841	371	450

I. What do people think about our brand? (overall rating)

```
WITH CTE_HEARD AS

(SELECT Brand_perception, COUNT(*) as Respondent_count

FROM fact_survey_responses

WHERE Heard_before = 'Yes'

GROUP BY Brand_perception),

Total AS

(SELECT COUNT(*) AS total_heard

from fact_survey_responses

WHERE Heard_before = 'Yes')

SELECT

h.Brand_perception,
h.Respondent_count,

ROUND((h.respondent_count * 100)/ t.total_heard, 1) AS percentage

FROM CTE_HEARD h, Total t

ORDER BY percentage desc;
```

	taste_experience	Respondent_count	percentage
•	1	209	10.3
	2	300	14.8
	3	620	30.6
	4	511	25.2
	5	386	19.1

```
    WITH CTE_taste AS (
    SELECT Taste_experience,
    COUNT(*) AS Respondent_count
    FROM fact_survey_responses
    WHERE Heard_before = 'Yes' AND Tried_before = 'Yes'
    GROUP BY Taste_experience),
    TOTAL AS (
    SELECT COUNT(*) AS Total_heard_and_tasted
    FROM fact_survey_responses
    WHERE Heard_before = 'Yes' AND Tried_before = 'Yes')
    SELECT
    t.taste_experience,
    t.Respondent_count,
    ROUND((t.Respondent_count * 100)/ o.Total_heard_and_tasted, 1) AS percentage
    FROM CTE_TASTE t, TOTAL o
    ORDER BY Taste_experience;
```

	Brand_perception	Respondent_count	percentage
•	Neutral	2561	57.6
	Positive	1079	24.3
	Negative	807	18.1

J. Which cities do we need to focus more on?

```
SELECT

dc.City,
dc.Tier,
count(*) AS Respondent_count,

SUM(CASE WHEN Heard_before = 'Yes' THEN 1 ELSE 0 END) AS Awareness,

ROUND(SUM(CASE WHEN fsr.Heard_before = 'Yes' THEN 1 ELSE 0 END)*100 / COUNT(*) ,1) AS Awareness_pct_within_city

FROM fact_survey_responses fsr

JOIN dim_respondents dr

ON fsr.Respondent_ID = dr.Respondent_ID

JOIN dim_cities dc

ON dc.City_ID = dr.City_ID

GROUP BY dc.City_ID, dc.Tier

ORDER BY Respondent_count desc;
```

	City	Tier	Respondent_count	Awareness	Awareness_pct_within_city
•	Bangalore	Tier 1	2828	1158	40.9
	Hyderabad	Tier 1	1833	728	39.7
	Mumbai	Tier 1	1510	899	59.5
	Chennai	Tier 1	937	372	39.7
	Pune	Tier 2	906	377	41.6
	Kolkata	Tier 2	566	210	37.1
	Ahmedabad	Tier 2	456	207	45.4
	Delhi	Tier 1	429	267	62.2
	Jaipur	Tier 2	360	144	40.0
	Lucknow	Tier 2	175	85	48.6

K. Where do respondents prefer to purchase energy drinks?

SELECT purchase_location, COUNT(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Purchase_location;

	purchase_location	Respondent_count	
١	Supermarkets	4494	
	Online retailers	2550	
	Gyms and fitness centers	1464	
	Other	679	
	Local stores	813	

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

```
SELECT price_range, count(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Price_range;
```

	price_range	Respondent_count
•	50-99	4288
	100-150	3142
	Above 150	1561
	Below 50	1009

```
select Limited_edition_packaging, count(*) as Respondent_count
FROM fact_survey_responses
group by Limited_edition_packaging
order by Respondent_count desc;
```

	Limited_edition_packaging	Respondent_count
•	No	4023
	Yes	3946
	Not Sure	2031

M. What immediate improvements can we bring to the product?

```
SELECT Ingredients_expected, count(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Ingredients_expected
ORDER BY Respondent_count DESC;

SELECT Improvements_desired, count(*) AS Respondent_count
FROM fact_survey_responses
GROUP BY Improvements_desired
ORDER BY Respondent_count DESC;
```

	Ingredients_expected	Respondent_count
•	Caffeine	3896
	Vitamins	2534
	Sugar	2017
	Guarana	1553

	Improvements_desired	Respondent_count
•	Reduced sugar content	2995
	More natural ingredients	2498
	Wider range of flavors	2037
	Healthier alternatives	1472
	Other	998