

Data-driven customer insights, ad channel, and product portfolio analysis

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1. Context and problem definition

Context:

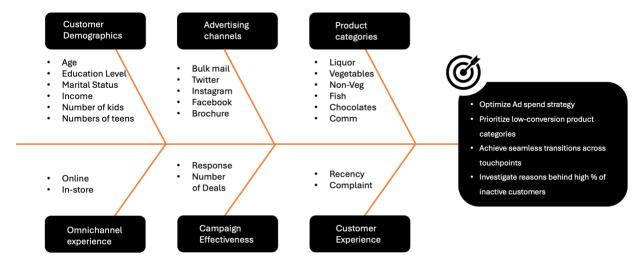
2Market is an omnichannel global supermarket operating in eight markets.

Problem Statement:

2Market aims to extract data-driven insights from its customer demographics and purchasing behavior. Knowing that without a strong grasp of the subject, 2Market risks having an unfocused Ad strategy, under-prioritized product categories, and weak overall brand loyalty. The analysis aims to identify patterns in customer demographics, optimize marketing efforts, and shed light on low-conversion product categories to positively affect business performance.

Root Cause Analysis (Ishikawa Diagram)

Refer to 0. Appendix Five Whys Framework



Questions to the 2Market team:

- Would you define yourself as a discounter, wholesaler, or regular supermarket?
- Are you planning to expand in one specific region?

Questions to be answered by the analysis:

- What insights can we draw from the analysis of the customer demographics?
- Regarding your marketing strategy, which Ad channels are the most effective per country? Are there Ad channels to be deprioritized?
- What is your best-selling product category? What are the implications of this?
- How would we evaluate your customers' omnichannel experience?

2. Data cleaning and exploratory analysis

Analysis Assumptions:

It is assumed that the data for Amt, Num, Response, and Complaint columns are monthly values. It is also assumed that the analysis was done in 2015.

Data Cleaning:

Refer to I. Appendix – Data cleaning and Grouping (Excel)

- No duplicates have been identified.
- Date and income columns were formatted consistently (currency and date format)
- Education and country groups and names were adjusted to better represent the data
- Columns with numerical values were checked to identify erroneous data points using box and whisker charts. Identified erroneous data rows were removed from the data set. (I. Appendix)
- New groups were made to better reflect age and marital status (Generation, age range, and new marital status groups) (I. Appendix)

Findings' Observation:

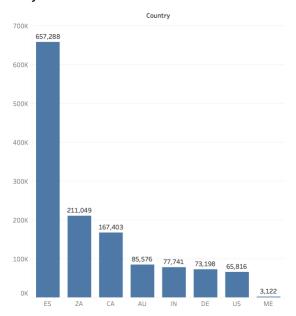
- ES is the country with the highest market share
- Liquor is the category with the highest average spend across countries
- 71.41% of the customers have between 1-3 kids and/or teens
- The average spend has an inverse relationship with the number of kids and teens per household.
- Instagram and Twitter are the most popular social platforms across countries (except for the US) and marital statuses.
- Brochure is the lowest lead-generating ad channel
- Gen X is the generation with the highest market share within the customer base
- ES and IN have over 40% inactive customers if we assume that inactivity is > 60 days.

Analysis Limitations:

- No information on social platforms' actual conversion rates (conversions that can be linked back to actual transactions). The current analysis assumed the platform with the highest leads as the most effective.
- Complaints don't specify the cause which would require further investigation/data to trace it back and propose solutions
- Data doesn't specify current campaigns' and discounts product categories.

Detailed Findings:

Total sales by Country



Nb of Customers with kids and/or teens

0 Kids	632
1 Kid	1,114
2 Kids	415
3 Kids	50

• Products with the highest average spend by education level

Product	Education	Average Spend	Number Of Cust
Commodities	Basic	22	54
Liquor	Bachelor	285	1,115
	Master/Postgraduate Di	287	563
	PhD	407	479

• Highest average spend by grouped marital status

Product	Gr Marital Status	Average Spend	Number Of Customers
Liquor	Married/Couple	303	1,428
	Opt-Out information	338	4
	Single	309	779

• Avg spend for households with a total of 0 – 3 minors broken down by category and nb of customers

Total Kids (group)	Product =	Avg Spend =	Nb Of Cu stomers
0 Kids	Liquor	487	632
	Meat	370	632
	Fish	76	632
	Commodities	63	632
	Chocolates	53	632
	Vegetables	52	632
1 Kid	Liquor	269	1,114
	Meat	97	1,114
	Commodities	40	1,114
	Fish	26	1,114
	Chocolates	20	1,114
	Vegetables	19	1,114
2 Kids	Liquor	142	415
	Meat	51	415
	Commodities	24	415
	Fish	11	415
	Chocolates	8	415
	Vegetables	7	415
3 Kids	Liquor	161	50
	Meat	59	50
	Commodities	18	50
	Vegetables	5	50
	Fish	5	50
	Chocolates	5	50

• Top social media platform per country (excluding ME with zero leads on all 3 platforms)

Country	Platform	Nb Custo mers	Total Leads
AU	Instagram	147	12
CA	Twitter	266	24
DE	Twitter	116	11
ES	Instagram	1,090	88
IN	Twitter	146	10
US	Facebook	106	7
ZA	Instagram	335	21

• Calculation of the % lead share by country & social media platform

Country	Facebook	Instagram	Twitter	Grand Total
AU	28.0	48.0	24.0	100.0
CA	28.6	33.3	38.1	100.0
DE	26.9	30.8	42.3	100.0
ES	30.3	35.1	34.7	100.0
IN	30.4	26.1	43.5	100.0
US	38.9	27.8	33.3	100.0
ZA	32.8	34.4	32.8	100.0

• Market share by education

Education

Basic	0.33
Bachelor	51.60
Master / Postgraduate Diploma	23.97
PhD	24.10

• Number of online and offline purchases

Country	Generation	Number Offline Sales	Number Online Sales
AU	Baby Boomer	311	229
	Millenials	140	103
	Gen X	376	260
	Gen Z	3	3
CA	Baby Boomer	587	435
	Millenials	269	168
	Gen X	698	539
DE	Baby Boomer	234	158
	Millenials	145	91
	Gen X	309	212
	Gen Z	12	3
ES	Baby Boomer	2,358	1,583
	Millenials	1,123	733
	Gen X	2,807	2,016
	Gen Z	37	15
IN	Baby Boomer	223	164
	Millenials	214	160
	Gen X	337	254
	Gen Z	8	4
ME	Baby Boomer	7	10
	Millenials	4	6
	Gen X	8	2
US	Baby Boomer	251	192
	Millenials	122	81
	Gen X	275	205
	Gen Z	2	1
ZA	Baby Boomer	730	536
	Millenials	433	263
	Gen X	816	590
	Gen Z	7	7

• Online to offline share broken down by generation

Generation	Share Offline Sales	Share Online Sales
Baby Boomer	58.70	41.30
Gen X	57.98	42.02
Gen Z	67.65	32.35
Millenials	60.42	39.58

• % Complaints by country

Count =	Nb of Customers	Total Complains	% Complains 🗧
ES	1,091	14	1.28%
ZA	336	3	0.89%
DE	116	1	0.86%
CA	266	2	0.75%
US	106	0	0.00%
ME	3	0	0.00%
IN	146	0	0.00%
AU	147	0	0.00%

• Campaign acceptance rate and % of purchases with discounts

Country	Accepted Campaigns	% of campaign acceptance	Purchases With Discounts	% of purchases with discount
AU	22	15	334	227
CA	38	14	640	241
DE	17	15	241	208
ES	176	16	2,461	226
IN	13	9	364	249
ME	2	67	7	233
US	13	12	270	255
ZA	52	15	814	242

• Sales Share per Ad channel

Count =	Bulkmail Liquor Share	Bulkmail Meat Share	Bulkmail Co mmodities =	Bulkmail Chocolates Sh	Bulkmail Fish Share	Bulkmail Vegetables Sh
ME	30.00	27.00	19.00	40.00	14.00	100.00
AU	12.00	11.00	14.00	7.00	9.00	8.00
IN	13.00	12.00	13.00	12.00	15.00	6.00
CA	10.00	9.00	13.00	10.00	8.00	9.00
US	6.00	4.00	12.00	4.00	6.00	8.00
ES	8.00	8.00	11.00	8.00	7.00	9.00
ZA	7.00	5.00	10.00	4.00	4.00	5.00
DE	13.00	9.00	10.00	6.00	8.00	9.00

Country	Brochure Liquor Share	Brochure Meat Share	Brochure Commodities S	Brochure Chocolates Share	Brochure Fish Share	Brochure Vegetables Sha
CA	5.00	3.00	2.00	2.00	2.00	2.00
DE	6.00	3.00	3.00	1.00	3.00	1.00
ES	5.00	2.00	2.00	2.00	2.00	1.00
IN	6.00	6.00	2.00	2.00	2.00	2.00
ZA	3.00	1.00	3.00	2.00	0.00	2.00

Country	Facebook Liquor Share	Facebook Meat Share	Facebook Commodities	Facebook Chocolates S	Facebook Fish Share	Facebook Vegetables S
AU	12.00	13.00	10.00	7.00	16.00	10.00
CA	16.00	20.00	11.00	17.00	16.00	12.00
DE	13.00	14.00	8.00	13.00	20.00	14.00
ES	18.00	18.00	12.00	17.00	16.00	16.00
IN	11.00	12.00	12.00	18.00	14.00	7.00
US	17.00	12.00	9.00	9.00	7.00	7.00
ZA	15.00	16.00	11.00	15.00	17.00	14.00

Country	Instagram Liquor Share	Instagram Meat Share	Instagram Commodities Sh	Instagram Chocolates Share	Instagram Fish Share	Instagram Vegetables Share
AU	24.00	23.00	18.00	15.00	17.00	14.00
CA	21.00	18.00	13.00	14.00	13.00	14.00
DE	18.00	18.00	10.00	20.00	12.00	13.00
ES	23.00	24.00	14.00	20.00	17.00	20.00
IN	11.00	16.00	6.00	18.00	10.00	5.00
US	14.00	9.00	4.00	8.00	7.00	4.00
ZA	19.00	16.00	12.00	14.00	14.00	12.00

Country	Twitter Liquor Share	Twitter Meat Share	Twitter Commodities	Twitter Chocolates S	Twitter Fish Share	Twitter Vegetables S
AU	12.00	9.00	3.00	4.00	7.00	4.00
CA	20.00	11.00	9.00	7.00	10.00	8.00
DE	20.00	13.00	10.00	8.00	10.00	14.00
ES	20.00	12.00	10.00	11.00	9.00	9.00
IN	16.00	6.00	5.00	5.00	5.00	4.00
US	12.00	3.00	2.00	1.00	1.00	1.00
ZA	17.00	10.00	7.00	9.00	7.00	7.00

• Share of inactive customers assuming inactivity period is > 60 days

Count =	
IN	41.78
ES	40.05
DE	39.66
US	38.68
ZA	36.31
CA	36.09
ME	33.33
AU	29.93

3. Dashboard Design Considerations:

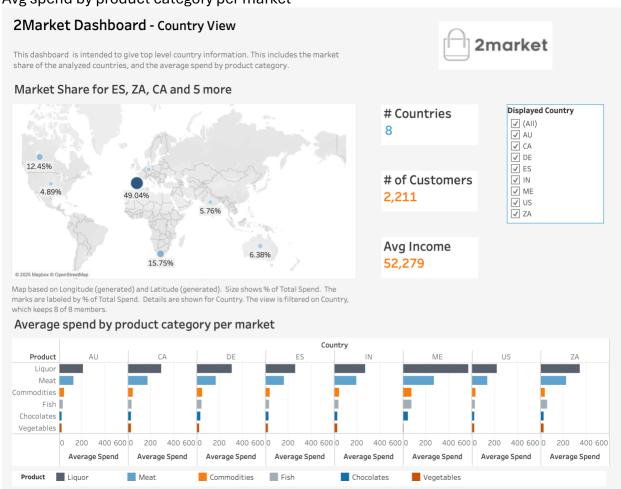
- Separate dashboards were created to focus on key aspect of the analysis.
- Users with sight impairment can still draw insights from the charts used, as they also rely on sizes, lengths, and shapes to represent the information. Color shades take color-blind users into account.
- The order of the charts on each dashboard follows a logical sequence to accommodate keyboard users.
- Alt text and captions were added to make sure the data and charts are accessible to all users.

Dashboards' Overview

Country View

Gives top-level insights into:

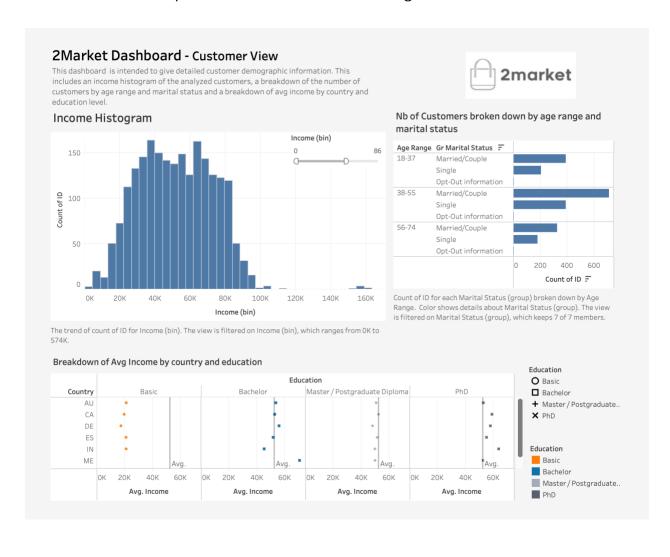
- Nb of Active countries, customers, and their avg income
- Current market share per country
- Avg spend by product category per market



Customer View

Is a deep dive into the customer demographics giving information on their:

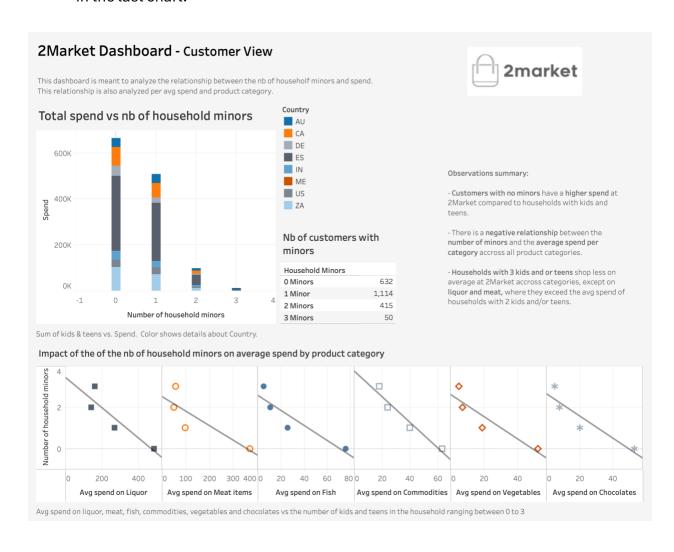
- Income distribution
- Age ranges and marital status vs nb of customers
- The relationship between education level and avg income across markets



2nd Customer View

Mainly focuses on the relationship between having kids and/or teens on the average spend:

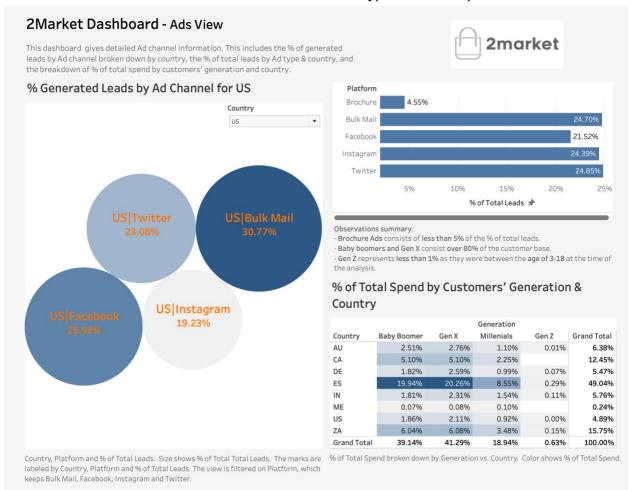
- Total Spend for customers with 0 to 3 household minors.
- The effect of the total nb of household minors was further analyzed per category in the last chart.



Ads View:

Mainly shows:

- Breakdown of Ad channels by % of generated leads (Platform leads calculated against total leads per country to get % of generated leads) excluding brochures.
- A breakdown of % the total leads by ad type and the country clearly shows the weak performance of brochures.
- % Total spend by customers' generation to see which generation leads the conversions and if based on that a certain ad type should be prioritized



Customer Engagement - Behaviour Closeup View

Dives in:

- The % of inactive customers per country counting the number of users exceeding a certain inactivity period (assumed 60 days in the screenshot) and dividing by the total number of customers per country
- % of Complaints calculated by counting the nb of complaints and dividing by the nb of customers per country
- Share of offline to online purchases showing the lead of in-store purchases.



4. Conclusion & Recommendations

- Increase deals and campaigns focusing on low conversion driver products (commodities, fish, chocolates and Vegetables) as this may positively reflect on the avg spend of customers with kids and/or teens
- Brochures should be deprioritized as an Ad channel. Instead, 2Market should focus on a strategy to attract Gen Z customers as they're the future conversion driver generation.
- Maintaining social media strategy agility by prioritizing platforms that would positively reflect on conversions. Instagram being a candidate for a shift towards social commerce (1).
- Investigate reasons for customers' inactivity across countries
- Optimize countries' eCommerce websites and delivery logistics to better reflect on online purchases.

References

(1) Cooper Smith. (2015) It's time for retailers to start paying close attention to social media. Business Insider

0. Appendix: The 5 Whys Framework

Summary: 2Market is trying to understand its customer demographics

1. Why is 2Market trying to understand its customer demographics?

To better target its customers

2. Why is 2Market trying to target its customers?

To better serve them and cater to their needs

3. Why is it trying to cater to their different needs?

Because 2Market has a diverse customer base, it wants to understand if there are any patterns to look out for and if there are certain subgroups that they should focus on to improve their conversions.

4. Why is it trying to identify patterns?

It would mainly help 2Market focus on the most effective ad channel and on boosting sales across its categories.

5. Why is it trying to focus on the most effective ad channel and better conversions for their categories?

This is to optimize its performance and make sure that it's not over-investing in the wrong ad channels or wrong categories for its customer base.

I. Appendix – Data Cleaning & Grouping (Excel)

Data Cleaning

Box and whisker plots were used to examine columns with numerical values.

Data Column	Observation	Action Taken	Customer to action
ID	There is a '0' customer ID.	The ID was kept and unchanged and will be flagged to customer.	Yes
Year_Birth	There are customers with potentially erroneous years of birth (1894, 1900 & 1901). Assuming the analysis is happening in 2015.	Rows with the ID 11004, 1150, 7829 have been removed given the high probability of them being false.	Yes
Education	The list includes two different categories for 2n Cycle and Masters degrees.	Research suggests that 2n Cycle includes Masters and postgraduate diplomas. Masters' together with 2n Cycle entries were replaced with Master / Postgraduate Diploma.	No
	Graduation is included on the list.	Graduation was replaced by Bachelor's to make it clearer to stakeholders of different backgrounds.	No
Data Column	Observation	Action Taken	Customer to action
Income	Income column was saved as text including the currency sign.	The column was split in two separate columns: one for the currency and	No

Dt_Customer	Date formats were not	one for the income, where the income has been formatted as number. Dates are formatted	No
	consistent.	consistently in the following sequence: DD/MM/YY	
AmtNonVeg	For the ID 5376, the amount seems false compared to the income of the customer.	The row has been removed as part of the data cleaning process and it will be flagged to the customer.	Yes
AmtNonVeg AmtChocolates	Customers with the ID 4931, 8475, 1501 are outliers in the data when examined using the box and whiskers chart.	It doesn't look like erroneous data as the customer comes from the high-income	No
AmtChocolates	Customer with the ID 4619 is an outlier on the AmtChocolates	bracket.	
NumWebBuy and NumVisits	ID 6237 seems erroneous. It's unreasonable for a customer to do 23 online purchases with 0 website visits. The row as a whole isn't consistent as it also shows that the customer has a Phd and yet has a very low income	The ID 6237 was removed from the data set.	Yes
	ID 6428, 10286, 11074, 8584 and 5832 have 0 NumVisits and yet have data under NumWebBuy	This will be flagged to 2Market as it could be a typo.	Yes
Country	The country codes provided don't match	Changes have been made to make sure the information is	Yes

the ISO 2 Alpha country	understood by all	
codes.	stakeholders	
	AUS → AU	
	GER→DE	
	IND→IN	
	SP→ES	
	SA→ZA	
	Remaining country	
	codes were left	
	unchanged.	

Excluded Rows

Rows that were excluded are as follows:

- 11004
- 1150
- 7829
- 5376
- 6237

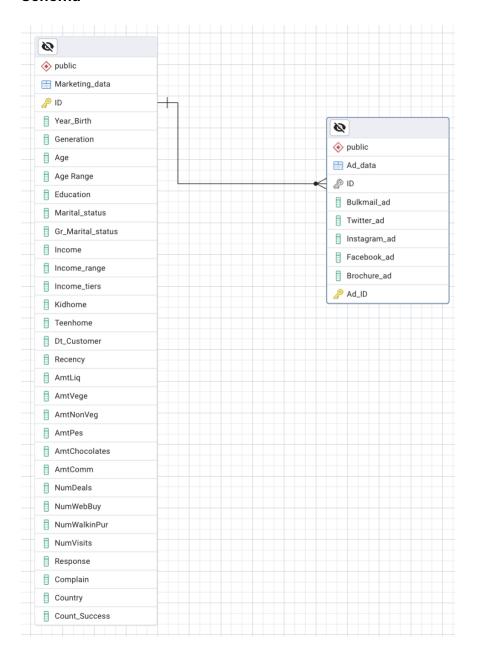
Analysis Groupings:

Grouping Type	Reasoning	Actual groups
Generation	To better visualize the data on charts and to improve their readability, the customers were grouped based on their generation. This was done on Excel using nested if functions.	Theye were defined as follows: Baby Boomers <1964 Gen X between 1965 and 1979 Millenials between 1980 and 1994 Gen Z >1995
Marital Status	There are subcategories under the marital status that could be grouped differently without jeopardizing the quality of the data.	YOLO and Absurd were assumed to be coming from customers not comfortable sharing their marital status. They were both → Opt-Out information. Single, divorced, alone, and Widow → single

		Married and Together → Married/Couple.
Age ranges	To group the customers' ages in brackets the calculation for the Q1, Q3 and max was used to divide the data set into 3 ranges. This is to also highlight the weight of the middle group having 50% of the data values.	Age Groups were as follows: 18-37 38-55 55-74
Income	Income was also grouped into two main groups using the Q1 and Q3 calculation for the income.	Low income <35284 High Income>68487

II. Appendix - Diagnostic Analysis on Postgres

Schema



```
Syntax
```

```
--- TOTAL SPEND BY COUNTRY
------
CREATE VIEW TOTAL SPEND COUNTRY VIEW AS
SELECT
  COUNTRY,
  SUM(TOTAL SALES) AS TOTAL SALES
FROM
  (
      SELECT
           COUNTRY,
           COALESCE(AMT LIQ, 0) +
           COALESCE(AMT VEGE, 0) +
           COALESCE(AMT_NONVEG, 0) +
           COALESCE(AMT PES, 0) +
           COALESCE(AMT CHOCOLATES, 0) +
           COALESCE(AMT COMM, 0) AS TOTAL SALES
      FROM
           MARKETING DATA
  )
GROUP BY
  COUNTRY
ORDER BY
  COUNTRY;
-------
--- TOTAL SPEND BY PRODUCT PER COUNTRY
CREATE VIEW PRODUCT PER CATEGORY COUNTRY AS
SELECT
  COUNTRY,
  SUM(AMT_LIQ) AS SUM_LIQ,
  SUM(AMT VEGE) AS SUM VEGE,
  SUM(AMT NONVEG) AS SUM NONVEG,
  SUM(AMT PES) AS SUM PES,
  SUM(AMT CHOCOLATES) AS SUM_CHOCOLATES,
  SUM(AMT COMM) AS SUM COMM
FROM
  MARKETING_DATA
GROUP BY
  COUNTRY
ORDER BY
  COUNTRY;
```

```
--- TOTAL SPEND BY ID PER COUNTRY
CREATE VIEW TOTAL SPEND ID VIEW AS
SELECT
  ID,
  COUNTRY,
  SUM(TOTAL SALES)
FROM
       SELECT
           ID,
           COUNTRY,
           COALESCE(AMT_LIQ, 0) +
           COALESCE(AMT VEGE, 0) +
           COALESCE(AMT NONVEG, 0) +
           COALESCE(AMT PES, 0) +
           COALESCE(AMT CHOCOLATES, 0) +
           COALESCE(AMT COMM, 0) AS TOTAL SALES
       FROM
           MARKETING DATA
GROUP BY
  ID,
  COUNTRY
ORDER BY
  ID:
-------
---PIVOTED SPEND BY CATEGORY
CREATE VIEW SPEND BY CATEGORY VIEW AS
SELECT
  ID,
  'Liquor' PRODUCT,
  AMT LIQ AS AMOUNT
FROM
  PUBLIC.MARKETING_DATA M
UNION ALL
SELECT
  ID,
  'Vegetables' PRODUCT,
  AMT_VEGE AS AMOUNT
```

```
FROM
  PUBLIC.MARKETING DATA M
UNION ALL
SELECT
  ID,
  'Non Vegetables' PRODUCT,
  AMT NONVEG AS AMOUNT
FROM
  PUBLIC.MARKETING_DATA M
UNION ALL
SELECT
  ID,
  'Fish' PRODUCT,
  AMT PES AS AMOUNT
FROM
  PUBLIC.MARKETING DATA M
UNION ALL
SELECT
  ID.
  'Chocolates' PRODUCT,
  AMT CHOCOLATES AS AMOUNT
FROM
  PUBLIC.MARKETING DATA M
UNION ALL
SELECT
  ID,
  'Commodities' PRODUCT,
  AMT COMM AS AMOUNT
FROM
  PUBLIC.MARKETING DATA M
-------
  ---HIGHEST AVERAGE SPEND BY EDUCATION LEVEL AND PRODUCT CATEGORY
CREATE VIEW AVGSPEND EDU CAT VIEW AS
SELECT
  MD.EDUCATION,
  S.PRODUCT,
  SUM(S.AMOUNT) / COUNT(S.ID) AS AVERAGE_SPEND,
  COUNT(S.ID) AS NUMBER OF CUSTOMERS
FROM
  SPEND BY CATEGORY VIEW S
  JOIN PUBLIC.MARKETING DATA MD ON S.ID = MD.ID
```

```
GROUP BY
  MD.EDUCATION,
  S.PRODUCT
ORDER BY
  AVERAGE SPEND DESC;
SELECT
  EDUCATION,
  PRODUCT,
  AVERAGE_SPEND,
  NUMBER OF CUSTOMERS
FROM
  (
       SELECT
            AV.EDUCATION,
            AV.PRODUCT,
            AV.AVERAGE SPEND,
            AV.NUMBER OF CUSTOMERS,
            RANK() OVER (
                  PARTITION BY
                       AV.EDUCATION
                  ORDER BY
                       AV.AVERAGE SPEND DESC
            ) AS RANK
       FROM
            AVGSPEND EDU CAT VIEW AV
  ) RANKED
WHERE
  RANKED.RANK = 1;
------
---HIGHEST AVERAGE SPEND BY EDUCATION LEVEL, COUNTRY, GENERATION AND PRODUCT
CATEGORY
-------
CREATE VIEW AVGSPEND_EDU_GEN_COUNT_CAT_VIEW AS
SELECT
  MD.EDUCATION,
  MD.COUNTRY,
  MD.GENERATION,
  S.PRODUCT,
  SUM(S.AMOUNT) / COUNT(S.ID) AS AVERAGE SPEND,
  COUNT(S.ID) AS NUMBER_OF_CUSTOMERS
FROM
  SPEND BY CATEGORY VIEW S
```

```
JOIN PUBLIC.MARKETING_DATA MD ON S.ID = MD.ID
GROUP BY
  MD.EDUCATION,
  MD.COUNTRY,
  MD.GENERATION,
  S.PRODUCT
ORDER BY
  AVERAGE SPEND DESC;
SELECT
  EDUCATION,
  PRODUCT,
  AVERAGE_SPEND,
  NUMBER OF CUSTOMERS
FROM
  (
       SELECT
            AV.EDUCATION,
            AV.PRODUCT,
            AV.AVERAGE SPEND,
            AV.NUMBER_OF_CUSTOMERS,
            RANK() OVER (
                  PARTITION BY
                       AV.EDUCATION
                  ORDER BY
                       AV.AVERAGE SPEND DESC
            ) AS RANK
       FROM
            AVGSPEND EDU CAT VIEW AV
  ) RANKED
WHERE
  RANKED.RANK = 1;
-------
---HIGHEST AVERAGE SPEND BY MARITAL STATUS AND PRODUCT CATEGORY
CREATE VIEW AVGSPEND MARITAL CAT VIEW AS
SELECT
  MD.MARITAL STATUS,
  S.PRODUCT,
  SUM(S.AMOUNT) / COUNT(S.ID) AS AVERAGE SPEND,
  COUNT(S.ID) AS NUMBER_OF_CUSTOMERS
FROM
  SPEND_BY_CATEGORY_VIEW S
```

```
JOIN PUBLIC.MARKETING_DATA MD ON S.ID = MD.ID
GROUP BY
  MD.MARITAL_STATUS,
  S.PRODUCT
ORDER BY
  AVERAGE_SPEND DESC;
SELECT
  MARITAL STATUS,
  PRODUCT,
  AVERAGE SPEND,
  NUMBER_OF_CUSTOMERS
FROM
  (
       SELECT
            AV.MARITAL STATUS,
            AV.PRODUCT,
            AV.AVERAGE SPEND,
            AV.NUMBER_OF_CUSTOMERS,
            RANK() OVER (
                  PARTITION BY
                       AV.MARITAL STATUS
                  ORDER BY
                       AV.AVERAGE_SPEND DESC
            ) AS RANK
       FROM
            AVGSPEND_MARITAL_CAT_VIEW AV
  ) RANKED
WHERE
  RANKED.RANK = 1;
SELECT
FROM
  AVGSPEND MARITAL CAT VW
----
  ---AVERAGE SPEND BY GROUPED MARITAL STATUS
CREATE VIEW AVGSPEND GRMARITAL CAT VIEW AS
SELECT
  MD.GR MARITAL STATUS,
  S.PRODUCT,
  SUM(S.AMOUNT) / COUNT(S.ID) AS AVERAGE SPEND,
  COUNT(S.ID) AS NUMBER OF CUSTOMERS
```

```
FROM
  SPEND BY CATEGORY VIEW S
  JOIN PUBLIC.MARKETING_DATA MD ON S.ID = MD.ID
GROUP BY
  MD.GR MARITAL STATUS,
  S.PRODUCT
ORDER BY
  AVERAGE SPEND DESC;
SELECT
  GR MARITAL STATUS,
  PRODUCT,
  AVERAGE SPEND,
  NUMBER OF CUSTOMERS
FROM
  (
       SELECT
             AV.GR_MARITAL_STATUS,
             AV.PRODUCT,
             AV.AVERAGE SPEND,
             AV.NUMBER_OF_CUSTOMERS,
             RANK() OVER (
                  PARTITION BY
                       AV.GR_MARITAL_STATUS
                  ORDER BY
                       AV.AVERAGE SPEND DESC
             ) AS RANK
       FROM
             AVGSPEND GRMARITAL CAT VIEW AV
  ) RANKED
WHERE
  RANKED.RANK = 1;
-------
---CATEGORY WITH HIGHEST AVERAGE SPEND BY COUNTRY AND PRODUCT CATEGORY
CREATE VIEW AVGSPEND COUNTRY_CAT_VIEW AS
SELECT
  MD.COUNTRY,
  S.PRODUCT,
  SUM(S.AMOUNT) / COUNT(S.ID) AS AVERAGE_SPEND,
  COUNT(S.ID) AS NUMBER OF CUSTOMERS
FROM
  SPEND BY CATEGORY VIEW S
  JOIN PUBLIC.MARKETING DATA MD ON S.ID = MD.ID
```

```
GROUP BY
  MD.COUNTRY,
  S.PRODUCT
ORDER BY
  AVERAGE SPEND DESC;
SELECT
  COUNTRY,
  PRODUCT,
  AVERAGE_SPEND,
  NUMBER OF CUSTOMERS
FROM
  (
       SELECT
            AV.COUNTRY,
            AV.PRODUCT,
            AV.AVERAGE SPEND,
            NUMBER OF CUSTOMERS,
            RANK() OVER (
                 PARTITION BY
                      AV.COUNTRY
                 ORDER BY
                      AVERAGE SPEND DESC
            ) AS RANK
       FROM
            AVGSPEND COUNTRY CAT VIEW AV
  ) RANKED
WHERE
  RANKED.RANK = 1;
------
---AVERAGE SPEND BY GROUPED TOTAL NUMBER OF KIDS AND TEENS (RANGING FROM 0
TO 3 KIDS)
-------
CREATE VIEW FAMILIES NBOFKIDS VIEW AS
SELECT
  MD.ID,
  SUM(KID HOME + TEEN HOME) AS TOTAL KIDS
FROM
  PUBLIC.MARKETING_DATA MD
GROUP BY
  MD.ID
ORDER BY
  MD.ID;
```

```
CREATE VIEW AVG SPEND CAT KIDS VIEW AS
SELECT
  F.TOTAL KIDS,
  SUM(AMOUNT) AS AVG_SPEND,
  COUNT(S.ID) AS NB OF CUSTOMERS
FROM
  FAMILIES NBOFKIDS VIEW F
  JOIN SPEND_BY_CATEGORY_VIEW S USING (ID)
GROUP BY
  F.TOTAL_KIDS
ORDER BY
  AVG_SPEND DESC;
---PIVOTED TABLE OF THE AVG SPEND BY NUMBER OF KIDS
CREATE VIEW SUM OFFSPRING VIEW AS
SELECT
  ID,
  SUM(KID_HOME) + SUM(TEEN_HOME) AS SUM_OFFSPRING,
  AMT LIQ,
  AMT VEGE,
  AMT NONVEG,
  AMT PES,
  AMT CHOCOLATES,
  AMT COMM
FROM
  MARKETING DATA
GROUP BY
  ID
ORDER BY
  ID;
CREATE VIEW NB_KIDS_TEENS_CATEGORY_AVGSPEND_VIEW AS
SELECT
  COUNT(ID) AS FAMILY_COUNT,
  SUM OFFSPRING AS NB OF KIDSANDTEENSINHOUSE,
  SUM(AMT_LIQ) / COUNT(ID) AS AVG_LIQ,
```

```
SUM(AMT_VEGE) / COUNT(ID) AS AVG_VEGE,
  SUM(AMT NONVEG) / COUNT(ID) AS AVG NONVEG,
  SUM(AMT_PES) / COUNT(ID) AS AVG_PES,
  SUM(AMT CHOCOLATES) / COUNT(ID) AS AVG CHOCOLATES,
  SUM(AMT COMM) / COUNT(ID) AS AVG COMM
FROM
  SUM OFFSPRING VIEW
GROUP BY
  NB OF KIDSANDTEENSINHOUSE
ORDER BY
  NB OF KIDSANDTEENSINHOUSE ASC;
SELECT
FROM
  NB KIDS TEENS CATEGORY AVGSPEND VIEW;
--- PIVOTED SOCIAL MEDIA LEADS BY USERS
-------
CREATE VIEW SOCIAL MEDIA USER VIEW AS
SELECT
  AD.ID,
  'Twitter' AS PLATFORM,
  AD.TWITTER AD AS TOTAL
FROM
  PUBLIC.AD DATA AD
GROUP BY
  AD.ID,
  AD.TWITTER AD
UNION ALL
SELECT
  AD.ID,
  'Instagram' AS PLATFORM,
  AD.INSTAGRAM AD AS TOTAL
FROM
  PUBLIC.AD DATA AD
GROUP BY
  AD.ID,
  AD.INSTAGRAM AD
UNION ALL
SELECT
  AD.ID,
  'Facebook' AS PLATFORM,
  AD.FACEBOOK AD AS TOTAL
```

```
FROM
  PUBLIC.AD DATA AD
GROUP BY
  AD.ID,
  AD.FACEBOOK AD;
SELECT
FROM
  SOCIAL MEDIA USER VIEW
--- SOCIAL MEDIA BY COUNTRY
-------
CREATE VIEW SOCIAL MEDIA COUNTRY VIEW AS
SELECT
  MD.COUNTRY,
  SM.PLATFORM,
  SUM(CAST(SM.TOTAL AS INTEGER)) AS TOTAL LEADS
FROM
  SOCIAL MEDIA USER VIEW SM
  JOIN PUBLIC.MARKETING DATA MD ON MD.ID = SM.ID
GROUP BY
  MD.COUNTRY,
  SM.PLATFORM
ORDER BY
  SUM(CAST(SM.TOTAL AS INTEGER)) DESC;
-------
---Ad Channels
-------
CREATE VIEW AD USER VIEW AS
SELECT
  AD.ID,
  'Brochure' AS PLATFORM,
  AD.BROCHURE AD AS TOTAL
FROM
  PUBLIC.AD DATA AD
GROUP BY
  AD.ID,
  AD.BROCHURE AD
UNION ALL
SELECT
  AD.ID,
  'Bulk Mail' AS PLATFORM,
```

```
AD.BULKMAIL_AD AS TOTAL
FROM
  PUBLIC.AD_DATA AD
GROUP BY
  AD.ID,
  AD.BULKMAIL_AD
UNION ALL
SELECT
  AD.ID,
  'Twitter' AS PLATFORM,
  AD.TWITTER AD AS TOTAL
FROM
  PUBLIC.AD_DATA AD
GROUP BY
  AD.ID,
  AD.TWITTER AD
UNION ALL
SELECT
  AD.ID,
  'Instagram' AS PLATFORM,
  AD.INSTAGRAM_AD AS TOTAL
FROM
  PUBLIC.AD DATA AD
GROUP BY
  AD.ID,
  AD.INSTAGRAM AD
UNION ALL
SELECT
  AD.ID,
  'Facebook' AS PLATFORM,
  AD.FACEBOOK_AD AS TOTAL
FROM
  PUBLIC.AD_DATA AD
GROUP BY
  AD.ID,
  AD.FACEBOOK_AD;
SELECT
FROM
  AD USER VIEW
----
  --- AD CHANNELS PER COUNTRY
-------
```

```
CREATE VIEW AD_CHANNELS_COUNTRY_VIEW AS
SELECT
  MD.COUNTRY,
  AD.PLATFORM,
  SUM(CAST(AD.TOTAL AS INTEGER)) AS TOTAL LEADS
FROM
  AD USER VIEW AD
  JOIN PUBLIC.MARKETING DATA MD ON MD.ID = AD.ID
GROUP BY
  MD.COUNTRY,
  AD.PLATFORM
ORDER BY
  MD.COUNTRY DESC;
-------
---MOST EFFECTIVE PLATFORM BY COUNTRY
CREATE VIEW EFFECTIVE PLATFORM COUNTRY VIEW AS
WITH
  SOCIALMEDIA BYCOUNTRY AS (
       SELECT
             MD.COUNTRY,
             SM.PLATFORM,
             SUM(CAST(SM.TOTAL AS INTEGER)) AS TOTAL_LEADS,
             COUNT(MD.ID) AS NB CUSTOMERS
       FROM
             SOCIAL MEDIA USER VIEW SM
             JOIN PUBLIC.MARKETING DATA MD ON MD.ID = SM.ID
       GROUP BY
             MD.COUNTRY,
             SM.PLATFORM
       ORDER BY
             SUM(CAST(SM.TOTAL AS INTEGER)) DESC
SELECT
  COUNTRY,
  PLATFORM,
  TOTAL LEADS,
  NB CUSTOMERS
FROM
  (
       SELECT
             COUNTRY,
             PLATFORM,
```

```
TOTAL LEADS,
             NB CUSTOMERS,
             RANK() OVER (
                  PARTITION BY
                        COUNTRY
                  ORDER BY
                        TOTAL LEADS DESC
             ) AS RANK
       FROM
             SOCIALMEDIA_BYCOUNTRY SC
  ) RANKED
WHERE
  RANKED.RANK = 1:
------
---MOST EFFECTIVE PLATFORM BY COUNTRY BY SUMMATION AND COUNT OF AD
CHANNELS
CREATE VIEW AD USER ACCEPTED AS
SELECT ID,
   PLATFORM,
   TOTAL
FROM AD USER VIEW
WHERE TOTAL is true
---BULKMAIL
CREATE VIEW BULKMAIL SPEND VIEW AS
SELECT MD.COUNTRY,
   AU.PLATFORM,
   SUM(CAST(AU.TOTAL AS INTEGER))AS COUNT BULK,
   SUM(MD.AMT LIQ)AS BULKMAIL LIQ SPEND,
   SUM(MD.AMT VEGE)AS BULKMAIL VEGE SPEND,
   SUM(MD.AMT NONVEG)AS BULKMAIL NONVEG SPEND,
   SUM(MD.AMT PES)AS BULKMAIL PES SPEND,
   SUM(MD.AMT CHOCOLATES)AS BULKMAIL CHOCOLATES SPEND,
   SUM(MD.AMT COMM)AS BULKMAIL COMM SPEND
FROM PUBLIC.MARKETING DATA MD
JOIN AD USER ACCEPTED AU ON MD.ID = AU.ID
WHERE AU.PLATFORM='Bulk Mail'
GROUP BY MD.COUNTRY,
   AU.PLATFORM;
---Twitter
CREATE VIEW TWITTER SPEND VIEW AS
SELECT MD.COUNTRY,
```

```
AU.PLATFORM,
    SUM(CAST(AU.TOTAL AS INTEGER))AS COUNT TWITTER,
    SUM(MD.AMT LIQ)AS TWITTER LIQ SPEND,
    SUM(MD.AMT VEGE)AS TWITTER VEGE SPEND,
    SUM(MD.AMT NONVEG)AS TWITTER NONVEG SPEND,
    SUM(MD.AMT PES)AS TWITTER PES SPEND,
    SUM(MD.AMT CHOCOLATES)AS TWITTER CHOCOLATES SPEND,
    SUM(MD.AMT COMM)AS TWITTER COMM SPEND
FROM PUBLIC.MARKETING DATA MD
JOIN AD USER ACCEPTED AU ON MD.ID = AU.ID
WHERE AU.PLATFORM='Twitter'
GROUP BY MD.COUNTRY,
    AU.PLATFORM;
---Facebook
CREATE VIEW FACEBOOK SPEND VIEW AS
SELECT MD.COUNTRY,
    AU.PLATFORM,
    SUM(CAST(AU.TOTAL AS INTEGER))AS COUNT FACEBOOK,
    SUM(MD.AMT LIQ)AS FACEBOOK LIQ SPEND,
    SUM(MD.AMT VEGE)AS FACEBOOK VEGE SPEND,
    SUM(MD.AMT NONVEG)AS FACEBOOK NONVEG SPEND,
    SUM(MD.AMT PES)AS FACEBOOK PES SPEND,
    SUM(MD.AMT CHOCOLATES)AS FACEBOOK CHOCOLATES SPEND,
    SUM(MD.AMT COMM)AS FACEBOOK COMM SPEND
FROM PUBLIC.MARKETING DATA MD
JOIN AD USER ACCEPTED AU ON MD.ID = AU.ID
WHERE AU.PLATFORM='Facebook'
GROUP BY MD.COUNTRY,
   AU.PLATFORM;
---Instagram
CREATE VIEW INSTAGRAM SPEND VIEW AS
SELECT MD.COUNTRY,
    AU.PLATFORM,
    SUM(CAST(AU.TOTAL AS INTEGER))AS COUNT INSTAGRAM,
    SUM(MD.AMT LIQ)AS INSTAGRAM LIQ SPEND,
    SUM(MD.AMT VEGE)AS INSTAGRAM VEGE SPEND,
    SUM(MD.AMT NONVEG)AS INSTAGRAM NONVEG SPEND,
    SUM(MD.AMT PES)AS INSTAGRAM PES SPEND,
    SUM(MD.AMT CHOCOLATES)AS INSTAGRAM CHOCOLATES SPEND,
    SUM(MD.AMT COMM)AS INSTAGRAM COMM SPEND
FROM PUBLIC.MARKETING DATA MD
```

```
JOIN AD USER ACCEPTED AU ON MD.ID = AU.ID
WHERE AU.PLATFORM='Instagram'
GROUP BY MD.COUNTRY,
   AU.PLATFORM;
---Brochure
CREATE VIEW BROCHURE SPEND VIEW AS
SELECT MD.COUNTRY,
    AU.PLATFORM,
    SUM(CAST(AU.TOTAL AS INTEGER))AS COUNT BROCHURE,
    SUM(MD.AMT LIQ)AS BROCHURE LIQ SPEND,
    SUM(MD.AMT VEGE)AS BROCHURE VEGE SPEND,
    SUM(MD.AMT NONVEG)AS BROCHURE NONVEG SPEND,
    SUM(MD.AMT PES)AS BROCHURE PES SPEND,
    SUM(MD.AMT CHOCOLATES)AS BROCHURE CHOCOLATES SPEND,
    SUM(MD.AMT COMM)AS BROCHURE COMM SPEND
FROM PUBLIC.MARKETING DATA MD
JOIN AD USER ACCEPTED AU ON MD.ID = AU.ID
WHERE AU.PLATFORM='Brochure'
GROUP BY MD.COUNTRY.
    AU.PLATFORM;
---Bulkmail share view
CREATE VIEW BULKMAIL SHARE VIEW AS
SELECT PC.COUNTRY,
    ROUND(SUM(BS.BULKMAIL LIQ SPEND)/SUM(PC.SUM LIQ),2)*100 AS
BULKMAIL LIQ SHARE,
    ROUND(SUM(BS.BULKMAIL VEGE SPEND)/SUM(PC.SUM VEGE),2)*100 AS
BULKMAIL VEGE SHARE,
    ROUND(SUM(BS.BULKMAIL NONVEG_SPEND)/SUM(PC.SUM_NONVEG),2)*100 AS
BULKMAIL NONVEG SHARE,
    ROUND(SUM(BS.BULKMAIL_PES_SPEND)/SUM(PC.SUM_PES),2)*100 AS
BULKMAIL PES SHARE,
ROUND(SUM(BS.BULKMAIL CHOCOLATES SPEND)/SUM(PC.SUM CHOCOLATES),2)*100 AS
BULKMAIL CHOCOLATES SHARE,
    ROUND(SUM(BS.BULKMAIL COMM SPEND)/SUM(PC.SUM COMM),2)*100 AS
BULKMAIL COMM SHARE
FROM BULKMAIL SPEND VIEW BS
JOIN PRODUCT PER CATEGORY COUNTRY PC ON BS.COUNTRY = PC.COUNTRY
GROUP BY PC.COUNTRY;
```

⁻⁻⁻Twitter share view

CREATE VIEW TWITTER_SHARE_VIEW AS

SELECT PC.COUNTRY,

ROUND(SUM(BS.TWITTER_LIQ_SPEND)/SUM(PC.SUM_LIQ),2)*100 AS

TWITTER_LIQ_SHARE,

ROUND(SUM(BS.TWITTER_VEGE_SPEND)/SUM(PC.SUM_VEGE),2)*100 AS TWITTER VEGE SHARE,

ROUND(SUM(BS.TWITTER_NONVEG_SPEND)/SUM(PC.SUM_NONVEG),2)*100 AS TWITTER NONVEG SHARE,

ROUND(SUM(BS.TWITTER_PES_SPEND)/SUM(PC.SUM_PES),2)*100 AS TWITTER PES SHARE,

ROUND(SUM(BS.TWITTER_CHOCOLATES_SPEND)/SUM(PC.SUM_CHOCOLATES),2)*100 AS TWITTER CHOCOLATES SHARE,

ROUND(SUM(BS.TWITTER_COMM_SPEND)/SUM(PC.SUM_COMM),2)*100 AS TWITTER COMM SHARE

FROM TWITTER SPEND VIEW BS

JOIN PRODUCT_PER_CATEGORY_COUNTRY PC ON BS.COUNTRY = PC.COUNTRY GROUP BY PC.COUNTRY;

---Facebook share view

CREATE VIEW FACEBOOK SHARE VIEW AS

SELECT PC.COUNTRY,

ROUND(SUM(BS.FACEBOOK_LIQ_SPEND)/SUM(PC.SUM_LIQ),2)*100 AS FACEBOOK LIQ SHARE,

ROUND(SUM(BS.FACEBOOK_VEGE_SPEND)/SUM(PC.SUM_VEGE),2)*100 AS FACEBOOK VEGE SHARE,

ROUND(SUM(BS.FACEBOOK_NONVEG_SPEND)/SUM(PC.SUM_NONVEG),2)*100 AS FACEBOOK NONVEG SHARE,

ROUND(SUM(BS.FACEBOOK_PES_SPEND)/SUM(PC.SUM_PES),2)*100 AS FACEBOOK_PES_SHARE,

ROUND(SUM(BS.FACEBOOK_CHOCOLATES_SPEND)/SUM(PC.SUM_CHOCOLATES),2)*100 AS FACEBOOK CHOCOLATES SHARE,

ROUND(SUM(BS.FACEBOOK_COMM_SPEND)/SUM(PC.SUM_COMM),2)*100 AS FACEBOOK_COMM_SHARE

FROM FACEBOOK SPEND VIEW BS

JOIN PRODUCT_PER_CATEGORY_COUNTRY PC ON BS.COUNTRY = PC.COUNTRY GROUP BY PC.COUNTRY;

---Instagram Share

CREATE VIEW INSTAGRAM SHARE VIEW AS

SELECT PC.COUNTRY,

ROUND(SUM(BS.INSTAGRAM_LIQ_SPEND)/SUM(PC.SUM_LIQ),2)*100 AS INSTAGRAM LIQ SHARE,

```
ROUND(SUM(BS.INSTAGRAM VEGE SPEND)/SUM(PC.SUM VEGE),2)*100 AS
INSTAGRAM VEGE SHARE,
    ROUND(SUM(BS.INSTAGRAM NONVEG SPEND)/SUM(PC.SUM NONVEG),2)*100 AS
INSTAGRAM NONVEG SHARE,
    ROUND(SUM(BS.INSTAGRAM PES SPEND)/SUM(PC.SUM PES),2)*100 AS
INSTAGRAM PES SHARE,
ROUND(SUM(BS.INSTAGRAM CHOCOLATES SPEND)/SUM(PC.SUM CHOCOLATES),2)*100
AS INSTAGRAM CHOCOLATES SHARE,
    ROUND(SUM(BS.INSTAGRAM COMM SPEND)/SUM(PC.SUM COMM),2)*100 AS
INSTAGRAM COMM SHARE
FROM INSTAGRAM SPEND VIEW BS
JOIN PRODUCT PER CATEGORY COUNTRY PC ON BS.COUNTRY = PC.COUNTRY
GROUP BY PC.COUNTRY;
---Brochure Share
CREATE VIEW BROCHURE SHARE VIEW AS
SELECT PC.COUNTRY,
    ROUND(SUM(BS.BROCHURE LIQ SPEND)/SUM(PC.SUM LIQ),2)*100 AS
BROCHURE LIQ SHARE,
    ROUND(SUM(BS.BROCHURE VEGE SPEND)/SUM(PC.SUM VEGE),2)*100 AS
BROCHURE VEGE SHARE,
    ROUND(SUM(BS.BROCHURE NONVEG SPEND)/SUM(PC.SUM NONVEG),2)*100 AS
BROCHURE NONVEG SHARE,
    ROUND(SUM(BS.BROCHURE PES SPEND)/SUM(PC.SUM PES),2)*100 AS
BROCHURE PES SHARE,
ROUND(SUM(BS.BROCHURE CHOCOLATES SPEND)/SUM(PC.SUM CHOCOLATES),2)*100 AS
BROCHURE CHOCOLATES SHARE,
    ROUND(SUM(BS.BROCHURE COMM SPEND)/SUM(PC.SUM COMM),2)*100 AS
BROCHURE COMM SHARE
FROM BROCHURE SPEND VIEW BS
JOIN PRODUCT PER CATEGORY COUNTRY PC ON BS.COUNTRY = PC.COUNTRY
GROUP BY PC.COUNTRY;
---Liq
SELECT MD.COUNTRY,
    BR.BROCHURE LIQ SHARE,
    B.BULKMAIL LIQ SHARE,
    F.FACEBOOK LIQ SHARE,
    T.TWITTER LIQ SHARE,
    I.INSTAGRAM LIQ SHARE
```

FROM PUBLIC.MARKETING DATA MD

```
FULL OUTER JOIN BULKMAIL SHARE VIEW B ON B.COUNTRY = MD.COUNTRY
FULL OUTER JOIN BROCHURE SHARE VIEW BR ON BR.COUNTRY = B.COUNTRY
FULL OUTER JOIN FACEBOOK SHARE VIEW FON F.COUNTRY = B.COUNTRY
FULL OUTER JOIN INSTAGRAM SHARE VIEW I ON I.COUNTRY = F.COUNTRY
FULL OUTER JOIN TWITTER SHARE VIEW T ON T.COUNTRY = I.COUNTRY
GROUP BY MD.COUNTRY,
    BR.BROCHURE LIQ SHARE,
    B.BULKMAIL LIQ SHARE,
    F.FACEBOOK_LIQ SHARE,
    T.TWITTER LIQ SHARE,
    I.INSTAGRAM LIQ SHARE
ORDER BY MD.COUNTRY;
---Comm
SELECT MD.COUNTRY,
    BR.BROCHURE COMM SHARE,
    B.BULKMAIL COMM SHARE,
    F.FACEBOOK COMM SHARE,
    T.TWITTER COMM SHARE,
    I.INSTAGRAM COMM SHARE
FROM PUBLIC.MARKETING DATA MD
FULL OUTER JOIN BULKMAIL SHARE VIEW B ON B.COUNTRY = MD.COUNTRY
FULL OUTER JOIN BROCHURE SHARE VIEW BR ON BR.COUNTRY = B.COUNTRY
FULL OUTER JOIN FACEBOOK SHARE VIEW FON F.COUNTRY = B.COUNTRY
FULL OUTER JOIN INSTAGRAM SHARE VIEW I ON I.COUNTRY = F.COUNTRY
FULL OUTER JOIN TWITTER SHARE VIEW T ON T.COUNTRY = I.COUNTRY
GROUP BY MD.COUNTRY,
    BR.BROCHURE COMM SHARE,
    B.BULKMAIL COMM SHARE,
    F.FACEBOOK COMM SHARE,
    T.TWITTER COMM SHARE,
    I.INSTAGRAM COMM SHARE
ORDER BY MD.COUNTRY;
---Chocolates
SELECT MD.COUNTRY,
    BR.BROCHURE CHOCOLATES SHARE,
    B.BULKMAIL CHOCOLATES SHARE,
    F.FACEBOOK CHOCOLATES SHARE,
    T.TWITTER CHOCOLATES SHARE,
    I.INSTAGRAM CHOCOLATES SHARE
FROM PUBLIC.MARKETING DATA MD
FULL OUTER JOIN BULKMAIL SHARE VIEW B ON B.COUNTRY = MD.COUNTRY
FULL OUTER JOIN BROCHURE SHARE VIEW BR ON BR.COUNTRY = B.COUNTRY
```

FULL OUTER JOIN FACEBOOK_SHARE_VIEW F ON F.COUNTRY = B.COUNTRY FULL OUTER JOIN INSTAGRAM_SHARE_VIEW I ON I.COUNTRY = F.COUNTRY FULL OUTER JOIN TWITTER_SHARE_VIEW T ON T.COUNTRY = I.COUNTRY GROUP BY MD.COUNTRY,

BR.BROCHURE_CHOCOLATES_SHARE,
B.BULKMAIL_CHOCOLATES_SHARE,
F.FACEBOOK_CHOCOLATES_SHARE,
T.TWITTER_CHOCOLATES_SHARE,
I.INSTAGRAM_CHOCOLATES_SHARE
ORDER BY MD.COUNTRY;

---Vegetables

SELECT MD.COUNTRY,

BR.BROCHURE VEGE SHARE,

B.BULKMAIL VEGE SHARE,

F.FACEBOOK VEGE SHARE,

T.TWITTER VEGE SHARE,

I.INSTAGRAM_VEGE_SHARE

FROM PUBLIC.MARKETING DATA MD

FULL OUTER JOIN BULKMAIL_SHARE_VIEW B ON B.COUNTRY = MD.COUNTRY FULL OUTER JOIN BROCHURE_SHARE_VIEW BR ON BR.COUNTRY = B.COUNTRY FULL OUTER JOIN FACEBOOK_SHARE_VIEW F ON F.COUNTRY = B.COUNTRY FULL OUTER JOIN INSTAGRAM_SHARE_VIEW I ON I.COUNTRY = F.COUNTRY FULL OUTER JOIN TWITTER_SHARE_VIEW T ON T.COUNTRY = I.COUNTRY GROUP BY MD.COUNTRY,

BR.BROCHURE_VEGE_SHARE,
B.BULKMAIL_VEGE_SHARE,
F.FACEBOOK_VEGE_SHARE,
T.TWITTER_VEGE_SHARE,
I.INSTAGRAM_VEGE_SHARE
ORDER BY MD.COUNTRY;

---Non Vegetables

SELECT MD.COUNTRY,

BR.BROCHURE NONVEG SHARE,

B.BULKMAIL NONVEG SHARE,

F.FACEBOOK_NONVEG_SHARE,

T.TWITTER_NONVEG_SHARE,

I.INSTAGRAM_NONVEG_SHARE FROM PUBLIC.MARKETING DATA MD

FULL OUTER JOIN BULKMAIL_SHARE_VIEW B ON B.COUNTRY = MD.COUNTRY
FULL OUTER JOIN BROCHURE_SHARE_VIEW BR ON BR.COUNTRY = B.COUNTRY
FULL OUTER JOIN FACEBOOK_SHARE_VIEW F ON F.COUNTRY = B.COUNTRY
FULL OUTER JOIN INSTAGRAM SHARE VIEW I ON I.COUNTRY = F.COUNTRY

```
FULL OUTER JOIN TWITTER SHARE VIEW T ON T.COUNTRY = I.COUNTRY
GROUP BY MD.COUNTRY,
    BR.BROCHURE NONVEG SHARE,
    B.BULKMAIL NONVEG SHARE,
    F.FACEBOOK NONVEG SHARE,
    T.TWITTER NONVEG SHARE,
    I.INSTAGRAM NONVEG SHARE
ORDER BY MD.COUNTRY;
---Pes
SELECT MD.COUNTRY,
    BR.BROCHURE PES SHARE,
    B.BULKMAIL PES SHARE,
    F.FACEBOOK PES SHARE,
    T.TWITTER PES SHARE,
    I.INSTAGRAM PES SHARE
FROM PUBLIC.MARKETING DATA MD
FULL OUTER JOIN BULKMAIL SHARE VIEW B ON B.COUNTRY = MD.COUNTRY
FULL OUTER JOIN BROCHURE SHARE VIEW BR ON BR.COUNTRY = B.COUNTRY
FULL OUTER JOIN FACEBOOK SHARE VIEW F ON F.COUNTRY = B.COUNTRY
FULL OUTER JOIN INSTAGRAM SHARE VIEW I ON I.COUNTRY = F.COUNTRY
FULL OUTER JOIN TWITTER SHARE VIEW T ON T.COUNTRY = I.COUNTRY
GROUP BY MD.COUNTRY,
    BR.BROCHURE PES SHARE,
    B.BULKMAIL PES SHARE,
    F.FACEBOOK PES SHARE,
    T.TWITTER PES SHARE,
    I.INSTAGRAM PES SHARE
ORDER BY MD.COUNTRY;
-------
---MOST EFFECTIVE PLATFORM BY MARITAL STATUS
-------
  SOCIALMEDIA BYMARITAL AS (
        SELECT
             MD.MARITAL STATUS,
             SM.PLATFORM,
             SUM(CAST(SM.TOTAL AS INTEGER)) AS TOTAL LEADS,
             COUNT(MD.ID) AS NB CUSTOMERS
        FROM
             SOCIAL MEDIA USER VIEW SM
             JOIN PUBLIC.MARKETING DATA MD ON MD.ID = SM.ID
        GROUP BY
             MD.MARITAL STATUS,
             SM.PLATFORM
```

```
ORDER BY
             SUM(CAST(SM.TOTAL AS INTEGER)) DESC
  )
SELECT
  MARITAL STATUS,
  PLATFORM,
  TOTAL LEADS,
  NB_CUSTOMERS
FROM
  (
       SELECT
             MARITAL_STATUS,
             PLATFORM,
             TOTAL LEADS,
             NB CUSTOMERS,
             RANK() OVER (
                  PARTITION BY
                       MARITAL STATUS
                  ORDER BY
                       TOTAL LEADS DESC
             ) AS RANK
       FROM
             SOCIALMEDIA_BYMARITAL SC
  ) RANKED
WHERE
  RANKED.RANK = 1;
-------
---MOST EFFECTIVE PLATFORM BY GROUPED MARITAL STATUS
-------
WITH
  SOCIALMEDIA BYMARITAL AS (
       SELECT
             MD.GR MARITAL STATUS,
             SM.PLATFORM,
             SUM(CAST(SM.TOTAL AS INTEGER)) AS TOTAL_LEADS,
             COUNT(MD.ID) AS NB CUSTOMERS
       FROM
             SOCIAL MEDIA USER VIEW SM
             JOIN PUBLIC.MARKETING_DATA MD ON MD.ID = SM.ID
       GROUP BY
             MD.GR_MARITAL_STATUS,
             SM.PLATFORM
       ORDER BY
```

```
SUM(CAST(SM.TOTAL AS INTEGER)) DESC
  )
SELECT
  GR_MARITAL_STATUS,
  PLATFORM,
  TOTAL_LEADS,
  NB_CUSTOMERS
FROM
  (
       SELECT
            GR MARITAL STATUS,
            PLATFORM,
            TOTAL LEADS,
            NB CUSTOMERS,
            RANK() OVER (
                  PARTITION BY
                       GR MARITAL STATUS
                  ORDER BY
                       TOTAL LEADS DESC
            ) AS RANK
       FROM
            SOCIALMEDIA_BYMARITAL SC
  ) RANKED
WHERE
  RANKED.RANK = 1;
--- LEAD SHARE PER SOCIAL MEDIA PLATFORM
CREATE VIEW LEAD_SHARE_VIEW AS
WITH
  LEAD SHARE AS (
       SELECT
            MD.COUNTRY,
            SM.PLATFORM,
            SUM(CAST(SM.TOTAL AS INTEGER)) AS TOTAL_SOCIALLEAD
       FROM
            SOCIAL_MEDIA_USER_VIEW SM
            JOIN PUBLIC.MARKETING_DATA MD ON MD.ID = SM.ID
       GROUP BY
            MD.COUNTRY,
            SM.PLATFORM
       ORDER BY
            TOTAL_SOCIALLEAD DESC
```

```
)
SELECT
  LS.COUNTRY,
  LS.PLATFORM,
  LS.TOTAL SOCIALLEAD,
  ROUND(
        TOTAL SOCIALLEAD * 100.0 / NULLIF(
             SUM(TOTAL SOCIALLEAD) OVER (PARTITION BY LS.COUNTRY),0),3) AS
LEAD SHARE PERCOUNTRY
FROM
  LEAD SHARE LS
ORDER BY
  LS.COUNTRY,
  LEAD SHARE PERCOUNTRY;
SELECT
FROM
  LEAD SHARE VIEW
WHERE
  LEAD SHARE PERCOUNTRY IS NOT NULL
ORDER BY
  LEAD SHARE PERCOUNTRY DESC;
------
--- ESTIMATED SALES GENERATED BY PLATFORM PER COUNTRY
CREATE VIEW ESTIMATED SALES PLATFORM COUNTRY VIEW AS
SELECT
  LS.COUNTRY,
  LS.PLATFORM,
  LS.TOTAL SOCIALLEAD,
  LS.LEAD SHARE PERCOUNTRY,
  TS.TOTAL SALES,
  ROUND((LS.LEAD SHARE PERCOUNTRY * 0.01) * TS.TOTAL SALES,2) AS
ESTIMATED SALES PERPLATFORM,
  ROUND(((LS.LEAD SHARE PERCOUNTRY * 0.01) * TS.TOTAL SALES) /
LS.TOTAL SOCIALLEAD, 2) AS SALES PER LEAD
FROM
  LEAD SHARE VIEW LS
  JOIN TOTAL SPEND COUNTRY VIEW TS ON LS.COUNTRY = TS.COUNTRY
GROUP BY
  LS.COUNTRY,
  LS.PLATFORM,
```

```
LS.TOTAL_SOCIALLEAD,
  LS.LEAD SHARE PERCOUNTRY,
  TS.TOTAL_SALES
ORDER BY
  LS.COUNTRY;
SELECT
FROM
  ESTIMATED_SALES_PLATFORM_COUNTRY_VIEW
WHERE
  LEAD_SHARE_PERCOUNTRY IS NOT NULL;
--- MARKET SHARE BY COUNTRY
----
CREATE VIEW MARKET SHARE VIEW AS
WITH
  SPEND CTE AS (
       SELECT
            M.COUNTRY,
            SUM(M.AMT LIQ+
            M.AMT VEGE+
            M.AMT_NONVEG +
            M.AMT PES+
            M.AMT CHOCOLATES +
            M.AMT COMM
            ) TOTAL SPEND
       FROM
            MARKETING_DATA M
       GROUP BY
            M.COUNTRY
       ORDER BY
            TOTAL SPEND DESC
  )
SELECT
  COUNTRY,
  TOTAL SPEND,
  SUM(TOTAL_SPEND) OVER () OVERALL_SPEND,
  ROUND(TOTAL_SPEND / (SUM(TOTAL_SPEND) OVER ()) * 100, 2) MARKET_SHARE
FROM
  SPEND_CTE;
SELECT
```

```
FROM
  MARKET_SHARE_VIEW
------
  --- MARKET SHARE BY GENERATION PER COUNTRY
CREATE VIEW MARKET SHARE GENERATION VIEW AS
WITH
  GEN_SPEND_CTE AS (
       SELECT
            M.COUNTRY,
            M.GENERATION,
            SUM(M.AMT LIQ+
            M.AMT VEGE+
            M.AMT_NONVEG +
            M.AMT PES+
            M.AMT CHOCOLATES +
            M.AMT COMM
            ) TOTAL SPEND
       FROM
            MARKETING_DATA M
       GROUP BY
            M.COUNTRY,
            M.GENERATION
       ORDER BY
            TOTAL SPEND DESC
  )
SELECT
  COUNTRY,
  GENERATION,
  TOTAL SPEND AS TOTAL_SALES,
  SUM(TOTAL SPEND) OVER (
       PARTITION BY
            COUNTRY
  ) AS TOTAL SALES COUNTRY,
  ROUND((TOTAL_SPEND / (SUM(TOTAL_SPEND) OVER (PARTITION BY COUNTRY)) *
100),2) MARKET SHARE GENERATION COUNTRY
FROM
  GEN_SPEND_CTE;
SELECT
FROM
  MARKET_SHARE_GENERATION_VIEW
```

```
WHERE
  GENERATION IN ('Gen Z');
--- MARKET SHARE BY GENERATION
CREATE VIEW GEN SHARE VIEW AS
WITH
  SPEND CTE AS (
      SELECT
           M.GENERATION,
           SUM(M.AMT_LIQ +
           M.AMT_VEGE +
           M.AMT NONVEG+
           M.AMT PES+
           M.AMT CHOCOLATES +
           M.AMT COMM
           ) TOTAL SPEND
      FROM
           MARKETING DATA M
      GROUP BY
           M.GENERATION
      ORDER BY
           TOTAL SPEND DESC
  )
SELECT
  GENERATION,
  TOTAL SPEND,
  SUM(TOTAL SPEND) OVER () OVERALL SPEND,
  ROUND(TOTAL_SPEND / (SUM(TOTAL_SPEND) OVER ()) * 100, 2) MARKET_SHARE
FROM
  SPEND CTE;
SELECT
FROM
  GEN SHARE VIEW
  --- MARKET SHARE BY EDUCATION
CREATE VIEW EDU SHARE VIEW AS
WITH
  SPEND_CTE AS (
      SELECT
```

```
M.EDUCATION,
             SUM(
                   M.AMT_LIQ +
                   M.AMT VEGE+
                   M.AMT NONVEG +
                   M.AMT_PES +
                   M.AMT CHOCOLATES +
                   M.AMT COMM
             ) TOTAL SPEND
        FROM
             MARKETING DATA M
        GROUP BY
             M.EDUCATION
        ORDER BY
             TOTAL_SPEND DESC
SELECT
  EDUCATION,
  TOTAL SPEND,
  SUM(TOTAL SPEND) OVER () OVERALL_SPEND,
  ROUND(TOTAL SPEND / (SUM(TOTAL_SPEND) OVER ()) * 100, 2) MARKET_SHARE
FROM
  SPEND CTE;
SELECT
FROM
  EDU SHARE VIEW
  ---ONLINE VS IN-STORE SALES BY GENERATION PER COUNTRY
-------
CREATE VIEW ONLINEOFFLINE COUNTRY GENERATION VIEW AS
SELECT
  COUNTRY,
  GENERATION,
  SUM(NUM_WEBBUY) AS NUMBER_ONLINE_SALES,
  SUM(NUM WALKINPUR) AS NUMBER OFFLINE SALES
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  COUNTRY,
  GENERATION
ORDER BY
  COUNTRY ASC;
```

```
---ONLINE VS IN-STORE BY GENERATION
CREATE VIEW SHARE ONLINE OFFLINE SALES VIEW AS
SELECT
  GENERATION,
  ROUND(
       SUM(NUM WEBBUY) * 100.0 / NULLIF(SUM(NUM WEBBUY +
NUM WALKINPUR), 0),2) AS SHARE ONLINE SALES,
  ROUND(
       SUM(NUM WALKINPUR) * 100.0 / NULLIF(SUM(NUM WEBBUY +
NUM WALKINPUR), 0),2) AS SHARE OFFLINE SALES
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  GENERATION
ORDER BY
  GENERATION ASC;
-------
---ONLINE VS IN-STORE BY PRODUCT CATEGORY
-------
CREATE VIEW SHARE ONLINE OFFLINE SALES PRODUCT VIEW AS
WITH
  OFFLINE ONLINE CATAS (
       SELECT
  )
SELECT
  GENERATION,
  ROUND(
       SUM(NUM_WEBBUY) * 100.0 / NULLIF(SUM(NUM WEBBUY +
NUM WALKINPUR), 0),2) AS SHARE ONLINE SALES,
  ROUND(
       SUM(NUM WALKINPUR) * 100.0 / NULLIF(SUM(NUM WEBBUY +
NUM WALKINPUR), 0),2) AS SHARE OFFLINE SALES
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  GENERATION
ORDER BY
  GENERATION ASC:
-------
```

```
--- NB OF COMPLAINS PER COUNTRY
CREATE VIEW COMPLAINS COUNTRY VIEW AS
SELECT
  COUNTRY,
  ROUND(
      SUM(CAST(COMPLAIN AS INTEGER)) * 1.0 / COUNT(ID),2) AS
AVG NB OF COMPLAINS,
  COUNT(ID)
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  COUNTRY
ORDER BY
  AVG NB OF COMPLAINS;
-------
---CAMPAIGN AND DEALS SUCCESS
-------
CREATE VIEW CAMPAIGNS DEALS COUNTRY VIEW AS
SELECT
  COUNTRY.
  SUM(CAST(RESPONSE AS INTEGER)) AS ACCEPTED CAMPAIGNS,
  SUM(CAST(NUM DEALS AS INTEGER)) AS PURCHASES WITH DISCOUNTS,
  COUNT(ID) AS NB CUSTOMERS,
  ROUND(
      SUM(CAST(RESPONSE AS INTEGER)) * 1.0 / COUNT(ID) * 100,2) AS
CAMPAIGN ACCEPTANCE RATE,
  ROUND(
      SUM(CAST(NUM DEALS AS INTEGER)) * 1.0 / COUNT(ID) * 100,2) AS
PURCHASES WITH DISCOUNT RATE
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  COUNTRY
ORDER BY
  NB CUSTOMERS DESC;
---CAMPAIGN AND DEALS SUCCESS PER CATEGORY
------
CREATE VIEW CAMPAIGNS DEALS CATEGORY VIEW AS
SELECT
  MD.COUNTRY,
```

```
SUM(CAST(RESPONSE AS INTEGER)) AS ACCEPTED CAMPAIGNS,
  SUM(CAST(NUM DEALS AS INTEGER)) AS PURCHASES WITH DISCOUNTS,
  COUNT(ID) AS NB CUSTOMERS,
  ROUND(
        SUM(CAST(RESPONSE AS INTEGER)) * 1.0 / COUNT(ID) * 100,2) AS
CAMPAIGN_ACCEPTANCE_RATE,
  ROUND(
        SUM(CAST(NUM DEALS AS INTEGER)) * 1.0 / COUNT(ID) * 100,2) AS
PURCHASES WITH DISCOUNT RATE
FROM
  PUBLIC.MARKETING DATA
GROUP BY
  COUNTRY
ORDER BY
  NB CUSTOMERS DESC;
--- INACTIVE USERS FOR OVER 60 DAYS
-------
CREATE VIEW INACTIVE CUSTOMERS COUNTRY VIEW AS
WITH
  INACTIVE CUSTOMERS AS (
        SELECT
             COUNTRY,
             COUNT(ID) AS NB CUSTOMERS
        FROM
             PUBLIC.MARKETING DATA
        WHERE
             RECENCY > 60
        GROUP BY
             COUNTRY
        ORDER BY
             NB CUSTOMERS DESC
SELECT
  I.COUNTRY,
  I.NB CUSTOMERS AS INACTIVE CUSTOMERS,
  COUNT(MD.ID) AS CUSTOMERS_PER_MARKET,
  ROUND(I.NB CUSTOMERS * 1.0 / COUNT(MD.ID) * 100, 2) AS
SHARE INACTIVE CUSTOMERS
FROM
  INACTIVE CUSTOMERS I
  JOIN MARKETING DATA MD USING (COUNTRY)
GROUP BY
```

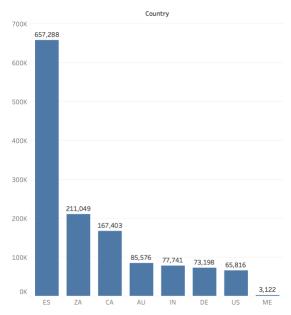
I.COUNTRY,
I.NB_CUSTOMERS
ORDER BY
I.NB_CUSTOMERS;

III. Appendix: Detail Findings & Calculations

- Customers' average age = 45.09
- Average age per marital status

Opt out (Unknown)	Divorced	Together	Widow	Single	Married	Alone
48.25	45.94	45.64	45.51	45.12	44.45	33.67

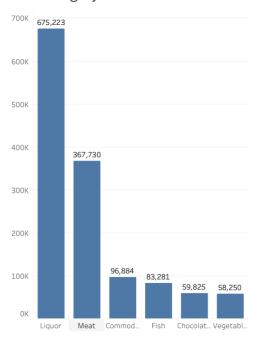
Total sales by Country



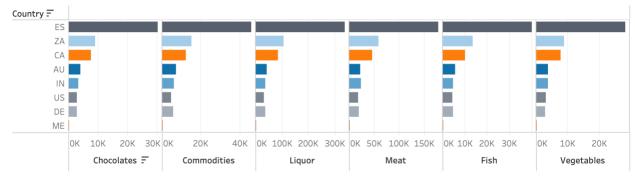
Nb of Customers with kids and/or teens

0 Kids	632
1 Kid	1,114
2 Kids	415
3 Kids	50

Total spend by product category



Total spend by country by product category



Avg spend by education by product category

Education	Chocolates	Commodities	Fish	Liquor	Meat	Vegetables
Basic	12	22	17	7	11	11
Bachelor	31	50	43	285	179	30
Master / Postgraduate Di	25	42	37	287	153	24
PhD	20	31	26	407	169	19

Products with the highest average spend by education level

Product	Education	Average Spend	Number Of Cust
Commodities	Basic	22	54
Liquor	Bachelor	285	1,115
	Master/Postgraduate Di	287	563
	PhD	407	479

• Highest average spend by marital status and number of customers

Product	Marital Status (group)	Average Spend	Number Of Customers
Commodities	Opt-Out (Unknow)	15.0	2.0
Liquor	Married	292.0	853.0
	Together	325.0	573.0
	Single	319.0	470.0
	Divorced	296.0	232.0
	Opt-Out (Unknow)	371.0	2.0
	Widow	246.0	76.0
	Alone	140.0	3.0

• Highest average spend by grouped marital status

Product	Gr Marital Status	Average Spend	Number Of Customers
Liquor	Married/Couple	303	1,428
	Opt-Out information	338	4
	Single	309	779

• Category with highest avg spend per country and number of customers.

Product	Count =	Average Spend	Number Of Customers
Liquor	ES	307	1,091
	ZA	315	336
	CA	316	266
	AU	290	147
	IN	248	146
	DE	317	116
	US	303	106
	ME	576	3

• Avg spend for households with 0 – 3 kids and/or teens broken down by category and nb of customers

Total Kids (group)	Product =	Avg Spend =	Nb Of Cu stomers
0 Kids	Liquor	487	632
	Meat	370	632
	Fish	76	632
	Commodities	63	632
	Chocolates	53	632
	Vegetables	52	632
1 Kid	Liquor	269	1,114
	Meat	97	1,114
	Commodities	40	1,114
	Fish	26	1,114
	Chocolates	20	1,114
	Vegetables	19	1,114
2 Kids	Liquor	142	415
	Meat	51	415
	Commodities	24	415
	Fish	11	415
	Chocolates	8	415
	Vegetables	7	415
3 Kids	Liquor	161	50
	Meat	59	50
	Commodities	18	50
	Vegetables	5	50
	Fish	5	50
	Chocolates	5	50

• Total social media leads broken down by country and platform

Platform

Country	F	Facebook	Instagram	Twitter
ES		76	88	87
CA		18	21	24
ZA		20	21	20
DE		7	8	11
AU		7	12	6
IN		7	6	10
US		7	5	6
ME		0	0	0

• Total ad leads broken down by country and platform

Country

Platform	AU	CA	DE	ES	IN	ME	US	ZA
Brochure	0	6	2	16	2	0	0	4
Facebook	7	18	7	76	7	0	7	20
Instagram	12	21	8	88	6	0	5	21
Twitter	6	24	11	87	10	0	6	20
Bulk Mail	9	18	10	83	13	1	8	21

• Top social media platform per country (excluding ME with zero leads on all 3 platforms)

Country	Platform	Nb Custo mers	Total Leads
AU	Instagram	147	12
CA	Twitter	266	24
DE	Twitter	116	11
ES	Instagram	1,090	88
IN	Twitter	146	10
US	Facebook	106	7
ZA	Instagram	335	21

• Top platform by marital status (excluding Opt-Out and Alone with 0 leads)

Platform	Marital Status	Nb Custo mers	Total Leads
Instagram	Married	853.0	60.0
	Divorced	232.0	19.0
	Widow	76.0	5.0
Twitter	Together	571.0	47.0
	Single	470.0	40.0

• Top platform by grouped marital status

Gr Marital Status	Platform	Nb Customers	Total Leads
Married/Couple	Instagram	1,426	109
Opt-Out	Facebook	4	1
information	Instagram	4	1
Single	Twitter	779	60

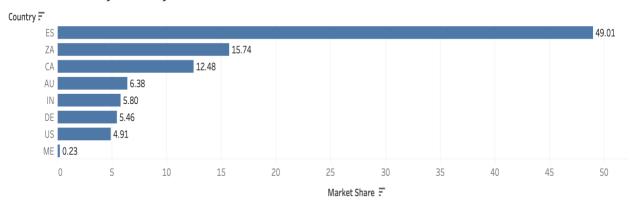
• Calculation of the % lead share by country & social media platform

Country	Facebook	Instagram	Twitter	Grand Total
AU	28.0	48.0	24.0	100.0
CA	28.6	33.3	38.1	100.0
DE	26.9	30.8	42.3	100.0
ES	30.3	35.1	34.7	100.0
IN	30.4	26.1	43.5	100.0
US	38.9	27.8	33.3	100.0
ZA	32.8	34.4	32.8	100.0

• Estimated sales per lead broken down by country and social media platform

Country	Platform	Lead Share Percountry	Total Sales	Sales Per Lead
AU	Facebook	28.00	85,576	3,423.04
	Instagram	48.00	85,576	3,423.04
	Twitter	24.00	85,576	3,423.04
CA	Facebook	28.57	167,403	2,657.06
	Instagram	33.33	167,403	2,656.92
	Twitter	38.10	167,403	2,657.52
DE	Facebook	26.92	73,198	2,814.99
	Instagram	30.77	73,198	2,815.38
	Twitter	42.31	73,198	2,815.46
ES	Facebook	30.28	657,288	2,618.77
	Instagram	35.06	657,288	2,618.70
	Twitter	34.66	657,288	2,618.57
IN	Facebook	30.43	77,741	3,379.51
	Instagram	26.09	77,741	3,380.44
	Twitter	43.48	77,741	3,380.18
US	Facebook	38.89	65,816	3,656.55
	Instagram	27.78	65,816	3,656.74
	Twitter	33.33	65,816	3,656.08
ZA	Facebook	32.79	211,049	3,460.15
	Instagram	34.43	211,049	3,460.20
	Twitter	32.79	211,049	3,460.15

Market share by country



• Market share by Generation

Generation	
Baby Boomer	38.97
Gen X	41.28
Millenials	19.14
Gen Z	0.62

• Market share by Generation by country

	Baby			
Country	Boomer	Gen X	Millenials	Gen Z
AU	38.68	43.68	17.50	0.14
CA	40.86	40.84	18.30	
DE	33.24	47.33	18.12	1.31
ES	40.45	41.34	17.64	0.58
IN	31.66	39.54	26.95	1.85
ME	27.99	31.71	40.29	
US	37.64	43.44	18.88	0.03
ZA	38.19	38.48	22.38	0.94

• Market share by education

Education

Basic	0.33
Bachelor	51.60
Master / Postgraduate Diploma	23.97
PhD	24.10

• Number of online and offline purchases

Country	Generation	Number Offline Sales	Number Online Sales
AU	Baby Boomer	311	229
	Millenials	140	103
	Gen X	376	260
	Gen Z	3	3
CA	Baby Boomer	587	435
	Millenials	269	168
	Gen X	698	539
DE	Baby Boomer	234	158
	Millenials	145	91
	Gen X	309	212
	Gen Z	12	3
ES	Baby Boomer	2,358	1,583
	Millenials	1,123	733
	Gen X	2,807	2,016
	Gen Z	37	15
IN	Baby Boomer	223	164
	Millenials	214	160
	Gen X	337	254
	Gen Z	8	4
ME	Baby Boomer	7	10
	Millenials	4	6
	Gen X	8	2
US	Baby Boomer	251	192
	Millenials	122	81
	Gen X	275	205
	Gen Z	2	1
ZA	Baby Boomer	730	536
	Millenials	433	263
	Gen X	816	590
	Gen Z	7	7

• Online to offline share broken down by generation

Generation	Share Offline Sales	Share Online Sales
Baby Boomer	58.70	41.30
Gen X	57.98	42.02
Gen Z	67.65	32.35
Millenials	60.42	39.58

• % Complains by country

Count =	Nb of Customers	Total Complains	% Complains 🗧
ES	1,091	14	1.28%
ZA	336	3	0.89%
DE	116	1	0.86%
CA	266	2	0.75%
US	106	0	0.00%
ME	3	0	0.00%
IN	146	0	0.00%
AU	147	0	0.00%

• Campaign acceptance rate and % of purchases with discounts

Country	Accepted Campaigns	% of campaign acceptance	Purchases With Discounts	% of purchases with discount
AU	22	15	334	227
CA	38	14	640	241
DE	17	15	241	208
ES	176	16	2,461	226
IN	13	9	364	249
ME	2	67	7	233
US	13	12	270	255
ZA	52	15	814	242

• Share of inactive customers assuming inactivity period is > 60 days

Count =	
IN	41.78
ES	40.05
DE	39.66
US	38.68
ZA	36.31
CA	36.09
ME	33.33
AU	29.93

• Bulkmail sales share per product country and product category

Count =	Bulkmail Liquor Share	Bulkmail Meat Share		Bulkmail Chocolates Sh	Bulkmail Fish Share	Bulkmail Vegetables Sh
ME	30.00	27.00	19.00	40.00	14.00	100.00
AU	12.00	11.00	14.00	7.00	9.00	8.00
IN	13.00	12.00	13.00	12.00	15.00	6.00
CA	10.00	9.00	13.00	10.00	8.00	9.00
US	6.00	4.00	12.00	4.00	6.00	8.00
ES	8.00	8.00	11.00	8.00	7.00	9.00
ZA	7.00	5.00	10.00	4.00	4.00	5.00
DE	13.00	9.00	10.00	6.00	8.00	9.00

• Brochure sales share per country and product category

Country	Brochure Liquor Share	Brochure Meat Share	Brochure Commodities S	Brochure Chocolates Share	Brochure Fish Share	Brochure Vegetables Sha
CA	5.00	3.00	2.00	2.00	2.00	2.00
DE	6.00	3.00	3.00	1.00	3.00	1.00
ES	5.00	2.00	2.00	2.00	2.00	1.00
IN	6.00	6.00	2.00	2.00	2.00	2.00
ZA	3.00	1.00	3.00	2.00	0.00	2.00

• Facebook sales share per country and product category

Country	Facebook Liquor Share	Facebook Meat Share	Facebook Commodities	Facebook Chocolates S	Facebook Fish Share	Facebook Vegetables S
AU	12.00	13.00	10.00	7.00	16.00	10.00
CA	16.00	20.00	11.00	17.00	16.00	12.00
DE	13.00	14.00	8.00	13.00	20.00	14.00
ES	18.00	18.00	12.00	17.00	16.00	16.00
IN	11.00	12.00	12.00	18.00	14.00	7.00
US	17.00	12.00	9.00	9.00	7.00	7.00
ZA	15.00	16.00	11.00	15.00	17.00	14.00

• Instagram sales share per country and product category

Country	Instagram Liquor Share	Instagram Meat Share	Instagram Commodities Sh	Instagram Chocolates Share	Instagram Fish Share	Instagram Vegetables Share
AU	24.00	23.00	18.00	15.00	17.00	14.00
CA	21.00	18.00	13.00	14.00	13.00	14.00
DE	18.00	18.00	10.00	20.00	12.00	13.00
ES	23.00	24.00	14.00	20.00	17.00	20.00
IN	11.00	16.00	6.00	18.00	10.00	5.00
US	14.00	9.00	4.00	8.00	7.00	4.00
ZA	19.00	16.00	12.00	14.00	14.00	12.00

• Twitter sales share per country and product category

Country	Twitter Liquor Share	Twitter Meat Share	Twitter Commodities	Twitter Chocolates S	Twitter Fish Share	Twitter Vegetables S
AU	12.00	9.00	3.00	4.00	7.00	4.00
CA	20.00	11.00	9.00	7.00	10.00	8.00
DE	20.00	13.00	10.00	8.00	10.00	14.00
ES	20.00	12.00	10.00	11.00	9.00	9.00
IN	16.00	6.00	5.00	5.00	5.00	4.00
US	12.00	3.00	2.00	1.00	1.00	1.00
ZA	17.00	10.00	7.00	9.00	7.00	7.00