

MarketFlash Project

Enhancing Business Operations with Data Insights

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Introduction

We will be presenting to you the project we've been working on for MarketFlash, a growing marketing company. Our goal was to design and build a powerful database and an insightful dashboard to help MarketFlash manage their data more effectively and make informed business decisions.

Link to the video: https://drive.google.com/file/d/1ZNyPEeGi7GL4ajJ8_wHhrTLSzK9d4uXj/view?usp=drive_link

Project Objectives

Our main objectives for this project were to:

Transition Market Flash's data from spreadsheets to a more scalable and structured database.

Design a database that captures all necessary information about campaigns, clients, channels, and employees.

Create a user-friendly dashboard that provides clear visibility into business performance and key metrics.

MarketFlash initially faced several challenges:

Managing a large volume of data in spreadsheets, which was becoming inefficient and error-prone.

Lack of centralized data storage, making it difficult to retrieve and analyze information.

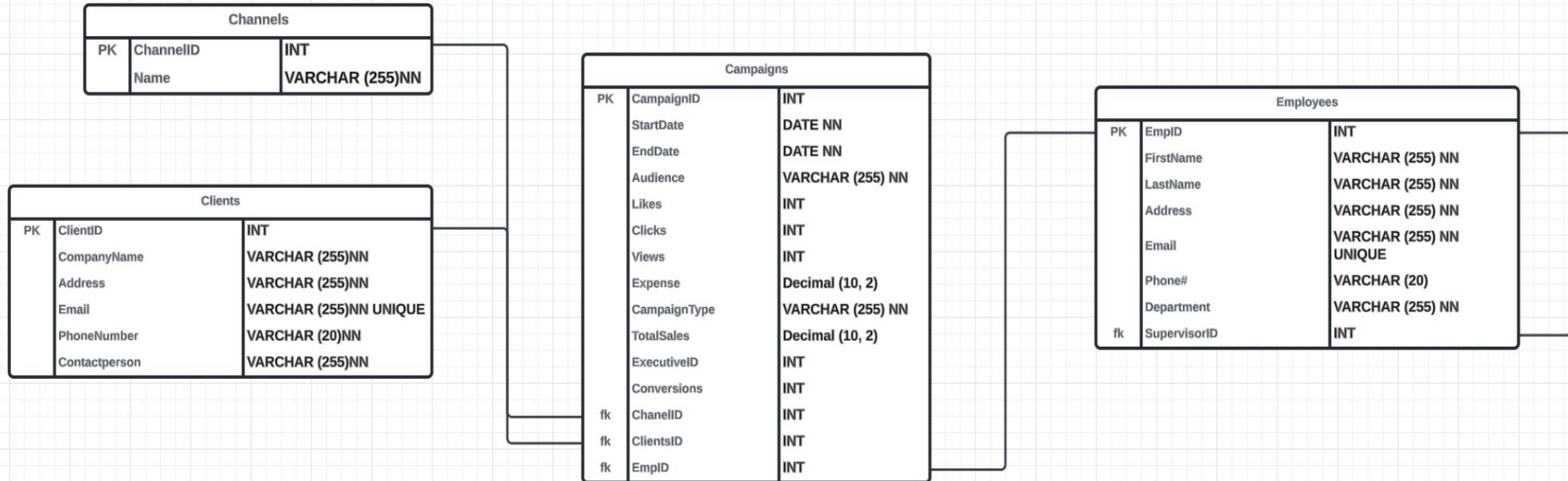
The need for a comprehensive dashboard to visualize key business metrics and trends.

To address these challenges, we followed a structured methodology:

1. Conducted interviews with Markus to understand the business requirements.
2. Analyzed the existing data to design a functional ER diagram for the database.
3. Cleaned the data to ensure accuracy and consistency.

FUNCTIONAL ER Diagram

This is the ER diagram we designed for MarketFlash's database. It includes four main entities: Campaigns, Clients, Employees, and Channels, along with their relationships. Each campaign is associated with one client, one channel, and one employee managing it. This structure ensures data integrity and supports efficient querying and reporting."



Database

We Normalized our database and removed redundancy.

We identified several data quality issues. These include: Duplicate records, missing values, Inconsistent data formats.

After cleaning the data, we achieved a significant reduction in duplicates and improved the completeness of our data. This has enhanced the reliability of our market analyses and decision-making processes.

Link to Beekeeper SQL queries:

<https://docs.google.com/document/d/1iCElMeUvEEOrwoSYB77B3uzam4G-qRfgTajYBdlUFy1c/edit>



Dashboard overview

Let's dive into the dashboard we created for MarketFlash. This dashboard provides a comprehensive view of the key performance indicators and insights necessary for making informed marketing decisions.

1. **Top Metrics:** (Avg.Clicks: 2,607, Avg.Conversions: 510, Avg.Likes: 5,049, Avg.Views: 50,404)
2. **Conversion Rate:** (Email: 21.17%, Facebook: 19.99%, Instagram: 17.68%, TikTok: 20.25%, YouTube: 18.12%)
3. **Engagement by Location and Audience:** (likes, clicks, views)
4. **Channels Cost per Metric:**(Email: 0.28429, Facebook: 0.22527, Instagram: 0.26154, TikTok: 0.22622, YouTube: 0.25800)
5. **Clients Performance:**(Shows Performance metrics broken down by client.)
6. **Quarterly Engagement Analysis:**(Breaks down engagement metrics by quarter)
7. **Sales by Territory:**(Shows sales data broken down by territory and channel)
8. **ROI (Return on Investment):**(Shows the return on investment for each channel.)

https://public.tableau.com/app/profile/vani.prasad/viz/MarketFlash_1723125895646?_lang=en dashboard2

MarketFlash

Clicks
2.607Conversions
510Likes
5.049Views
50.404

Time Period

- ☒ (All)
☒ Q1
☒ Q2
☒ Q3
☒ Q4

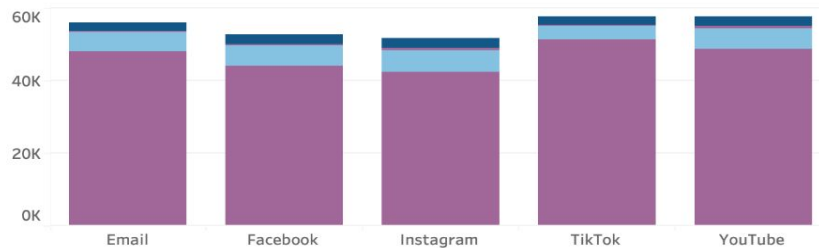
Location

- ☒ (All)
☒ Null
☒ Australia
☒ Canada
☒ Europe
☒ India
☒ Japan
☒ LATAM
☒ UK
☒ USA

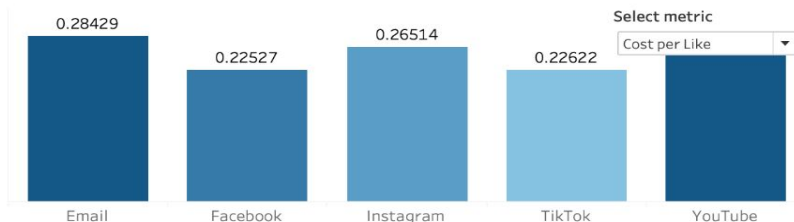
Audience

- ☐ (All)
☐ Adults 18-40
☒ Adults 40-60
☐ Female 18-40
☐ Female 40-60
☐ Female 60+
☐ Male 18-40
☐ Male 40-60
☐ Male 60+
☐ Seniors 60+
☐ Teens 13-19

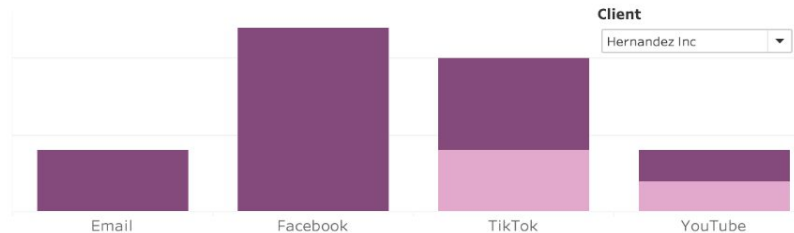
Engagement by Location and Audience



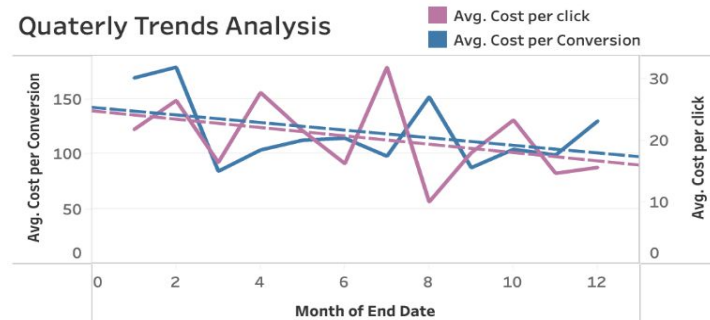
Channels Cost per Metric



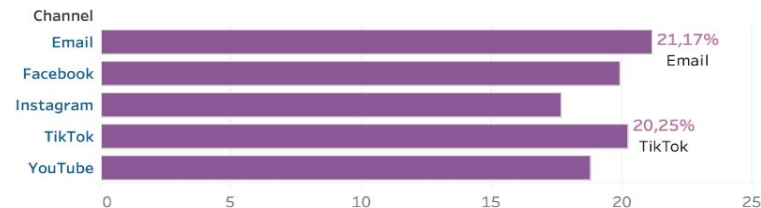
Clients Performance



Quarterly Trends Analysis

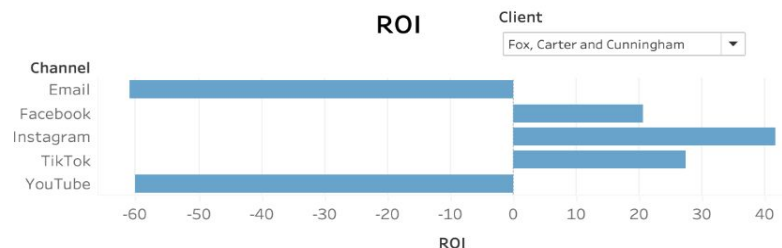


Conversion rate by Channel



ConversionRate

ROI



Conclusion

Our analysis provided valuable insights into campaign performance, helping MarketFlash make data-driven decision

This dashboard brings together a wealth of data to provide a holistic view of MarketFlash marketing performance. This allows a quick and easy analysis of key metrics, enabling better decision-making and more effective allocation of marketing resources.

