### Objective

Assess the effectiveness of various marketing campaigns to refine future marketing strategies and budget allocations.

### Requirements

# 1. Campaign Metrics Calculation

- Conversion Rate
- Cost per Click (CPC)
- Cost per Conversion (CPA)
- Return on Ad Spend (ROAS)

## 2. Channel Comparison

- Compare campaign performance across different channels based on CTR, conversion rate, CPC, and ROAS.
- Highlight the channels that perform best based on conversion rate and ROAS.
- Identify channels with high costs and low ROAS for budget review and adjustment.

## 3. Demographic Analysis

- Segment campaign performance by demographics, including age, gender, and location, to pinpoint high- and low-performing segments.
- Analyze which demographic groups are most responsive to specific channels or types of campaigns.
- Provide recommendations for future targeting based on demographic insights.

#### 4. Time-Based Analysis

- Monitor campaign performance over time (weekly or monthly) to identify trends or seasonal peaks.
- Examine whether certain times of the year lead to higher conversions or improved ROAS.

#### 5. Dashboard Requirements

- KPIs Summary: Include total impressions, total clicks, total conversions, total spend, total revenue, average CTR, and ROAS.
- Campaign Performance Overview: Create bar or line charts that compare key metrics (CTR, conversion rate, ROAS) across campaigns.
- Channel Performance Breakdown: Visualize the distribution of total spend, impressions, and conversions by channel using pie or stacked bar charts.
- Demographics Insights: Use charts to show the breakdown of conversions and revenue by age, gender, and location.
- Trend Analysis: Create a line or area chart to illustrate campaign metrics over time (impressions, clicks, conversions).

#### **Expected Insights**

• **Top-Performing Campaigns and Channels:** Identify which campaigns and channels yield the highest conversions and revenue relative to the budget.

- **Demographic Insights:** Determine which customer demographics are most responsive to the campaigns.
- **Seasonal or Temporal Trends:** Identify patterns in campaign success related to specific times of the year.

**Budget Allocation Recommendations:** Suggest reallocations to high-performing channels and campaigns with a high ROAS while reducing spend on underperforming segments.

There is the database <u>link</u>