Business Requirements Document (BRD)

Meta Ad Performance Analysis

Business Objective

The business needs a **performance tracking report** for advertising campaigns running on **Facebook and Instagram**.

The report will provide visibility into campaign reach, engagement, conversions, and budget utilization. This will enable the marketing team to:

- Identify the most effective platform (Facebook vs Instagram).
- Track campaign ROI and optimize budget allocation.
- Understand audience engagement patterns.

Scope of the Report

- In Scope:

 Campaigns running on Facebook and

 Instagram only.
- Out of Scope:
 - o Other platforms (Messenger, Audience Network).
 - o Organic engagement (only paid ads will be included).

KPIs & Definitions

КРІ	Definition	Formula	Example Use
Impressions	Number of times ads were displayed.	Count of event_type = Impression	Measure reach
Clicks	Number of times users clicked ads.	Count of event_type = Click	Measure engagement intent
Shares	Number of times ads were shared.	Count of event_type = Share	Viral engagement
Comments	Number of user comments on ads.	Count of event_type = Comment	User sentiment & feedback
КРІ	Definition	Formula	Example Use

Purchases	Number of purchases made after seeing ads.	Count of event_type = Purchase	Conversions
Engagements	Total interactions (Clicks + Shares + Comments).	Clicks + Shares + Comments	Engagement volume
CTR (Click Through Rate)	% of impressions that resulted in clicks.	(Clicks ÷ Impressions) × 100	Ad effectiveness
Engagement Rate	% of impressions that resulted in engagements.	(Engagements ÷ Impressions) × 100	Overall ad appeal
Conversion Rate	% of clicks that resulted in purchases.	(Purchases ÷ Clicks) × 100	Funnel efficiency
Purchase Rate	% of impressions that resulted in purchases.	(Purchases ÷ Impressions) × 100	Conversion from reach
Total Budget	Total spend allocated to campaigns.	Sum of campaigns. total_budget	Cost analysis
Avg. Budget per Campaign	Average budget allocation per campaign.	Total Budget ÷ Campaign Count	Budget distribution

Charts Requirements:

1. Target Gender – Donut Chart

A donut chart will visualize performance split by target gender (from the ads table).

- The metric displayed (e.g., Impressions, Clicks, Purchases) will change dynamically via the parameter.
- Purpose: Identify which gender segment contributes most to the selected metric.

2. Target Age Group - Bar Chart

A bar chart will show engagement across age groups defined in the ads table.

- Each bar will represent one age group.
- The metric displayed will switch dynamically.

• Purpose: Highlight which age group is most responsive to campaigns.

3. Calendar Month - Calendar Heat Map

A **calendar heat map** will plot performance at the **monthly level**, based on the timestamp field in ad events.

- Darker shades will indicate higher activity.
- Purpose: Detect seasonal trends, peak ad months, and low-activity periods.

4. Weekly Trend – Stacked Column by Ad Type

A stacked column chart will display weekly performance trends.

- X-axis → Week number (from the Date Table linked to ad events).
- Stacks → Different ad_type values (from the ads table).
- Y-axis → Selected metric.
- Purpose: Compare ad type contributions over weeks.

5. Hourly Trend – Area Chart

An area chart will show activity by hour of day (from ad events[time of day]).

- X-axis → Hour of the day (0–23).
- Y-axis → Selected metric.
- Purpose: Understand user activity patterns throughout the day.

6. Ad Type – Matrix

A matrix visualization will show the selected metric across ad types and possibly break down further by platform (Facebook vs Instagram).

- Rows → Ad Types.
- Columns → Platforms or other campaign dimensions.
- Values → Selected metric.
- Purpose: Compare performance across ad formats and platforms side by side.