REPORTING SYSTEM

"DHARA FASHION" involves in ecommerce business which has sales through various channels of platforms and revenue sources worldwide.

Develop a reporting system where users can measure & analyze platform sales and marketing efforts.

Reporting system must be comprises of following features:

- 1. Insert/delete records.
 - a. Revenue and expense records will be inserted in *.csv* format with proper validation of data and pre decided format in file.
 - b. Give date range selection & choice of data source to insert/delete records.
 - c. Same record needs to be overwritten in the database while inserting.
- 2. Show records in Tabular form with
 - a. Date range selection
 - b. Filters/dropdown (Platform, Country, Source)
 - c. give selection of all fields so, user can select/unselect fields that will hide/unhide fields from the table.

Here are the some table views base on selected fields

- d. Default view: (date, platform, product page impression, product order rate, RPM, Earnings, Cost , Profit/Loss, ROI, Cost/conv.)
- e. Country wise data (platform, country, product page impression, product order rate, RPM, Earnings, Cost , Profit/Loss, ROI, Cost/conv.)
- f. Revenue data (all fields)
- g. Expense data (all fields)

Some fields are runtime calculated on the basis on fetched records are

- Product page visibility(%)
- Product order rate
- RPM (revenue per thousand)impression
- Profit/Loss
- ROI
- Cost/conv
- Imp. CTR

*Notes :

- 1. Expense data in INR and Revenue data in USD form, need to convert expense data INR to USD while calculation and showing in the reports.
- 2. To calculate and show the cost of a particular platform, we need to aggregate the cost of the campaigns i.e, campaign name need to matches with platform name

Platform	Campaign Namo
Plationn	Campaign Name
Etsy store	Etsy store – xxx-xxx
Marketplace	Marketplace - xxx-xxx
Shopify store	Shopify store - xxx-xxx



Terminology

Revenue data

- Platform : Business engaging with multiple platforms where orders will be placed.
- Date
- Source : It is a type of revenue from different sources.
- Country
- Earnings (USD): It is revenue from order
- Product Impressions : It denotes number of times product appearance in multiple places of the platform.
- Product page Impressions: It denotes number of times product appearance clicks that redirect to product detail page.
- Order : It denotes the number of orders placed by the user from the product page..
- Calculated fields at runtime:
 - Product page visibility(%): it is the percentage of number times product page impression redirected from product impression.
 Calculated as: (product page impression/product impression)*100%
 - Product order rate(%) : It is the percentage of order placed from product page impressions.
 Calculated as (Order/product page impressions)*100%
 - RPM (revenue per thousand)impression: it is value in currency of per thousand product page impression's revenue
 Calculated as: (Earnings (USD) / product page impression)*1000

Expense data

- Date
- Campaign ID : It uniquely identifies the campaign name
- Campaign : Name of the campaign
- Country/Territory (Matched) :
- Bid : It denotes how much amount given to campaign to place order
- Currency code: It is type of code decided to show ads data
- Cost : it is the cost of campaigns.
- Conversions : It denotes the number of orders placed after clicking ads.
- Impr. : It is the number of times ad shown to users.
- Clicks : It is the number of times a user clicks an ad.
- Calculated fields at runtime:
 - Cost/conv : it is amount of order placed from ad Calculated as (cost/conversions)
 - Impr. CTR : it click rate from impression of ads Calculated as (clicks/Impr.)*100%

Calculated field that will use both data source:

- Profit/Loss : Earning Cost
- ROI(%): (Net Profit/Cost) * 100%

