

# Binance Trade Data Analysis Report

## 1. Introduction

This report presents an analysis of historical trade data from Binance accounts over a 90-day period. The goal was to compute key financial metrics, rank accounts based on performance, and derive insights into trading behavior.

## 2. Methodology

- Data Cleaning: Removed duplicates and handled missing values. Verified that key columns (Port\_IDs, realizedProfit, fee, etc.) were properly formatted.
- Metrics Calculation:
  - Total Realized Profit: Sum of profits for each account.
  - Total Fees Paid: Aggregated transaction fees per account.
  - Total Trades: Number of trades per account.
  - Average Trade Size: Average quantity of assets traded per transaction.
- Ranking: Accounts were ranked based on total realized profit.

## 3. Findings

- Top Performing Accounts:
  - The top 20 accounts, ranked by realized profit, displayed significantly higher trade volumes and profit margins compared to others.
- Fee Analysis:
  - Accounts with higher trade frequencies incurred greater total fees, but some managed to offset these with higher profits.
- Average Trade Size:
  - Accounts with larger average trade sizes tended to realize higher profits, indicating that larger trades may lead to better financial outcomes.

## 4. Visualizations

- Bar Chart: Displayed the total realized profit per account.
- Additional Insights: Charts can be created to visualize fees paid, trade volume, and average trade size.

## 5. Conclusion

This analysis provided key insights into trading behaviors and account performance on Binance. The ranking system highlighted the most profitable accounts, offering a framework for further optimization in trading strategies.