

Personal Investment Portfolio Tracker Using Power BI

– Designed by Divakaran S

PROJECT DOCUMENTATION

1. Project Overview

This Power BI dashboard provides a consolidated view of personal investment data across various brokers and asset types. It helps track total investment, quantity, and monthly trading trends with interactive visuals.

2. Tools Used

- Microsoft Power BI
- Power Query Editor
- Data Source: CSV or Excel files

3. Dataset Description

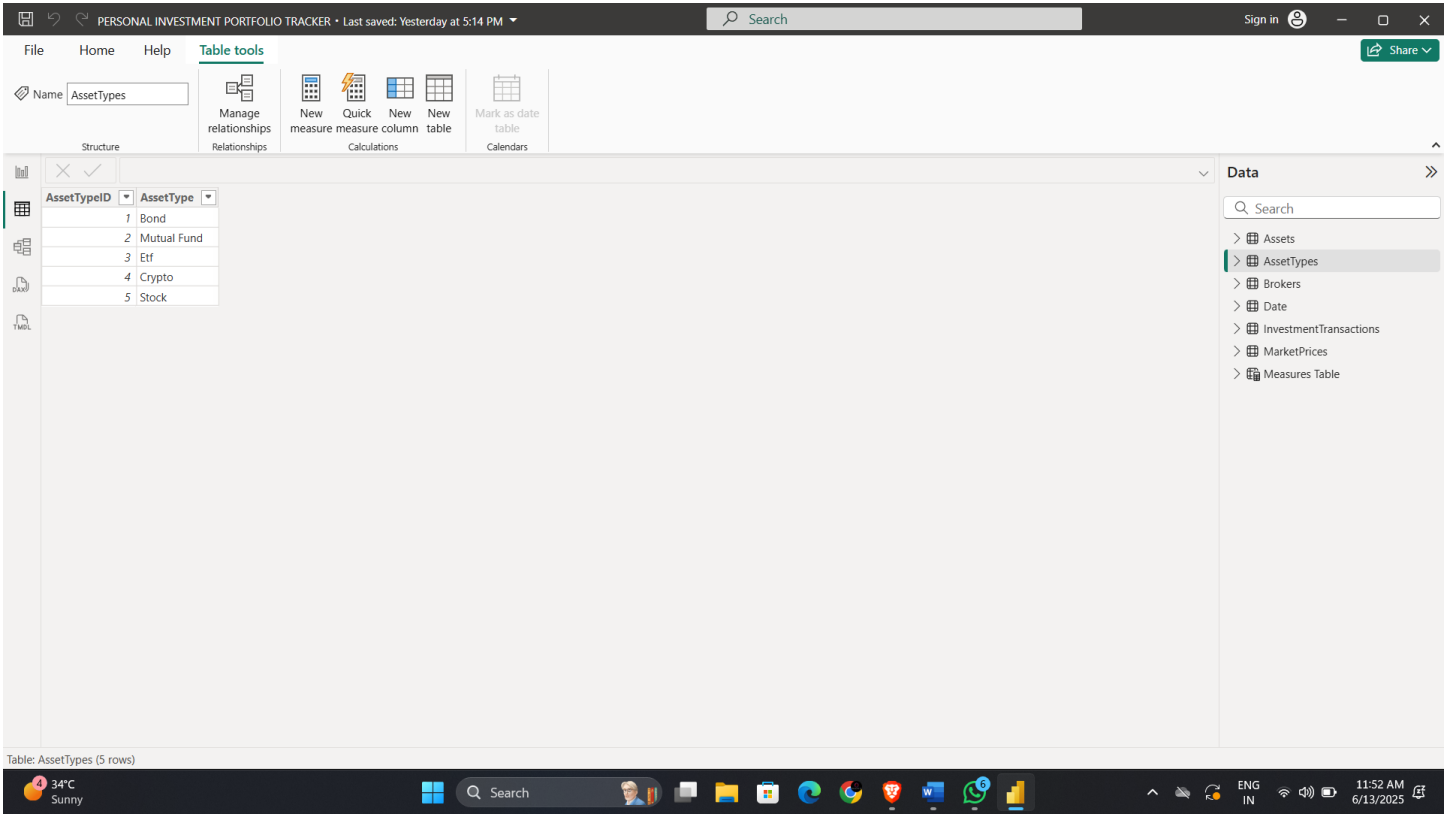
Below are the key tables used in the project:

Table Name	Purpose
Brokers	List of broker names (e.g., Zerodha)
Assets	Asset names, types, and categories
Investment Transactions	Buy/sell transaction data with dates, quantity, and value
Assets Types	Types of Assets (e.g., ETF, Bonds, Crypto)
Market Prices	Certain Date Market Prices
Date	Whole Year dates

4. Steps with Screenshots

Step 1: Data Import

Imported CSV files into Power BI and previewed them in Power Query Editor



Step 2: Data Cleaning in Power Query

Removed nulls, replaced placeholder values like "--", and ensured data types were correct.

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FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew Recent Enter Data

Data source settingsManage ParametersRefresh PreviewQuery

Choose Remove Keep Remove Split Group Data Type: Whole Number Merge Queries Text Analytics

Columns Columns Rows Rows Column By Use First Row as Headers Append Queries Vision

Manage Columns Reduce Rows Transform Combine Files Azure Machine Learning

CombineAI Insights

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

fx

Table.TransformColumns(#"Capitalized Each Word",{{"AssetType",Text.Trim,type text}})

123 AssetTypeIDAssetType

Valid100%Valid100%

Error0%Error0%

Empty0%Empty0%

1	1	Bond
2	2	Mutual Fund
3	3	Etf
4	4	Crypto
5	5	Stock

Query Settings

PROPERTIES

NameAssetTypes

APPLIED STEPS

SourcePromoted HeadersChanged TypeCapitalized Each WordTrimmed Text

2 COLUMNS, 5 ROWS

Column profiling based on top 1000 rows

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Data source settingsManage ParametersRefresh PreviewQuery

Choose Remove Keep Remove Split Group Data Type: Whole Number Merge Queries Text Analytics

Columns Columns Rows Rows Column By Use First Row as Headers Append Queries Vision

Manage Columns Reduce Rows Transform Combine Files Azure Machine Learning

CombineAI Insights

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

fx

Table.SelectRows(#"Filtered Rows1",each [BrokerName] <> null and [BrokerName] <> "")

123 BrokerIDBrokerName

Valid100%Valid100%

Error0%Error0%

Empty0%Empty0%

1	1	Zerodha
2	2	Groww
3	3	Binance
4	4	Icici Direct

Query Settings

PROPERTIES

NameBrokers

APPLIED STEPS

SourcePromoted HeadersChanged TypeCapitalized Each WordTrimmed TextFiltered RowsFiltered Rows1Filtered Rows2

2 COLUMNS, 4 ROWS

Column profiling based on top 1000 rows

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PERSONAL INVESTMENT PORTFOLIO TRACKER

FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew SourceRecent SourcesEnter DataData source settingsManage ParametersRefresh PreviewAdvanced EditorManageQueryChoose ColumnsRemove ColumnsKeep RowsRemove RowsSortSplit ColumnGroup ByData Type: DateUse First Row as HeadersReplace ValuesMerge QueriesAppend QueriesCombineFilesText AnalyticsVisionAzure Machine Learning

CloseNew QueryData SourcesParametersQueryManage ColumnsManage RowsTransformCombineAI Insights

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

Table.TransformColumnTypes(#"Trimmed Text",{{"Year", Int64.Type}})

	Date	Month	Year	Quarter
1	1/1/2025	January	2025	Q1
2	1/2/2025	January	2025	Q1
3	1/3/2025	January	2025	Q1
4	1/4/2025	January	2025	Q1
5	1/5/2025	January	2025	Q1
6	1/6/2025	January	2025	Q1
7	1/7/2025	January	2025	Q1
8	1/8/2025	January	2025	Q1
9	1/9/2025	January	2025	Q1
10	1/10/2025	January	2025	Q1
11	1/11/2025	January	2025	Q1
12	1/12/2025	January	2025	Q1
13	1/13/2025	January	2025	Q1
14	1/14/2025	January	2025	Q1
15	1/15/2025	January	2025	Q1
16	1/16/2025	January	2025	Q1
17	1/17/2025	January	2025	Q1
18	1/18/2025	January	2025	Q1
19	1/19/2025	January	2025	Q1
20	1/20/2025	January	2025	Q1
21	1/21/2025	January	2025	Q1
22	1/22/2025	January	2025	Q1
23	1/23/2025	January	2025	Q1
24	1/24/2025	January	2025	Q1
25	1/25/2025	January	2025	Q1

4 COLUMNS, 365 ROWSColumn profiling based on top 1000 rows

Query Settings

PROPERTIESNameDateAll Properties

APPLIED STEPSSourcePromoted HeadersChanged TypeTrimmed TextChanged Type1

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PERSONAL INVESTMENT PORTFOLIO TRACKER

FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew SourceRecent SourcesEnter DataData source settingsManage ParametersRefresh PreviewAdvanced EditorManageQueryChoose ColumnsRemove ColumnsKeep RowsRemove RowsSortSplit ColumnGroup ByData Type: Whole NumberUse First Row as HeadersReplace ValuesMerge QueriesAppend QueriesCombineFilesText AnalyticsVisionAzure Machine Learning

CloseNew QueryData SourcesParametersQueryManage ColumnsManage RowsTransformCombineAI Insights

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

Table.TransformColumnTypes(#"Added Conditional Column",{{"Date", type date}})

	TransactionID	Date	AssetID	Type	Quantity	PricePerUnit	TotalValue
1	1	5/18/2025	3	buy	43	1003.04	
2	2	5/22/2025	4	buy	46	692.26	
3	3	5/18/2025	4	buy	22	139.97	
4	4	5/21/2025	4	buy	1	234.89	
5	5	5/28/2025	1	buy	5	1820.3	
6	6	5/30/2025	8	buy	35	351.39	
7	10	5/26/2025	10	sell	16	1590.78	
8	11	5/24/2025	7	buy	7	284.17	
9	12	5/24/2025	6	sell	27	987.35	
10	13	5/11/2025	1	buy	4	864.98	
11	14	5/15/2025	2	buy	13	461.4	
12	15	5/8/2025	3	sell	12	629.24	
13	16	5/21/2025	2	sell	36	286.03	
14	17	5/28/2025	9	buy	6	1860.1	
15	18	5/7/2025	4	buy	27	1022.72	
16	21	5/7/2025	9	sell	10	460.81	
17	22	5/2/2025	1	buy	48	695.85	
18	23	5/17/2025	10	sell	33	1846.84	
19	24	5/6/2025	3	buy	33	252.21	
20	25	5/13/2025	2	buy	44	1737.46	
21	26	9/11/2025	3	sell	28	437.14	
22	27	11/27/2025	5	sell	67	1632.99	
23	28	9/1/2025	9	buy	64	883.97	
24	29	6/15/2025	9	sell	99	1575.18	
25							

8 COLUMNS, 90 ROWSColumn profiling based on top 1000 rows

Query Settings

PROPERTIESNameInvestmentTransactionsAll Properties

APPLIED STEPSSourcePromoted HeadersChanged TypeTrimmed TextChanged Type1Filtered RowsAdded Conditional ColumnChanged Type2

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PERSONAL INVESTMENT PORTFOLIO TRACKER

FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew Recent Enter Data

Data source settingsManage ParametersRefresh PreviewAdvanced Editor

Choose Remove ColumnsKeep Remove RowsSort

Split ColumnGroup ByData Type: DateUse First Row as HeadersReplace Values

Merge QueriesAppend QueriesCombine FilesCombine

Text AnalyticsVisionAzure Machine Learning

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

fx

Table.RemoveColumns(#"Inserted Month Name",{"Month"})

	Date	AssetID	MarketPrice	Month Name
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	6/1/2025	10	255.77	June
2	6/4/2025	4	1372.48	June
3	6/5/2025	6	553.5	June
4	6/6/2025	7	348.67	June
5	6/7/2025	5	968.73	June
6	6/8/2025	2	117.7	June
7	6/10/2025	2	239.2	June
8	6/11/2025	4	1061.18	June
9	6/12/2025	3	1873.19	June
10	6/13/2025	2	1770.61	June
11	6/14/2025	6	641.48	June
12	6/15/2025	8	1684.12	June
13	6/16/2025	5	1262.19	June
14	6/17/2025	9	114.86	June
15	6/18/2025	9	668.82	June
16	6/19/2025	2	1883.97	June
17	6/20/2025	3	602.49	June
18	6/21/2025	2	1510.59	June
19	6/22/2025	3	617.46	June
20	6/23/2025	10	500.2	June
21	6/24/2025	6	486.83	June
22	6/25/2025	5	1060.28	June

Query Settings

PROPERTIES

NameMarketPrices

All Properties

APPLIED STEPS

SourcePromoted HeadersChanged TypeFiltered RowsInserted MonthInserted Month NameRemoved Columns

4 COLUMNS, 22 ROWSColumn profiling based on top 1000 rowsPREVIEW DOWNLOADED AT 11:47 AM

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FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew Recent Enter Data

Data source settingsManage ParametersRefresh PreviewAdvanced Editor

Choose Remove ColumnsKeep Remove RowsSort

Split ColumnGroup ByData Type: Whole NumberUse First Row as HeadersReplace Values

Merge QueriesAppend QueriesCombine FilesCombine

Text AnalyticsVisionAzure Machine Learning

Queries [6]

AssetTypesBrokersDateInvestmentTransactionsMarketPricesAssets

fx

Table.TransformColumns(#"Trimmed Text",{{"AssetType",Text.Proper,type text}})

	AssetID	AssetName	AssetType	Symbol	BrokerID
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	1	TCS	Stock	TCS	1
2	2	INFY	Stock	INFY	1
3	3	RELIANCE	Stock	RELI	1
4	4	HDFC MF	Mutual Fund	HDFCMF	2
5	5	SBI MF	Mutual Fund	SBIMF	2
6	6	Bitcoin	Crypto	BTC	3
7	7	Ethereum	Crypto	ETH	3
8	8	LIC Bonds	Bond	LICBD	4
9	9	Gold ETF	Etf	GOLDET	4
10	10	Axis MF	Mutual Fund	AXISMF	2

Query Settings

PROPERTIES

NameAssets

All Properties

APPLIED STEPS

SourcePromoted HeadersChanged TypeTrimmed TextCapitalized Each Word

5 COLUMNS, 10 ROWSColumn profiling based on top 1000 rowsPREVIEW DOWNLOADED AT 11:47 AM

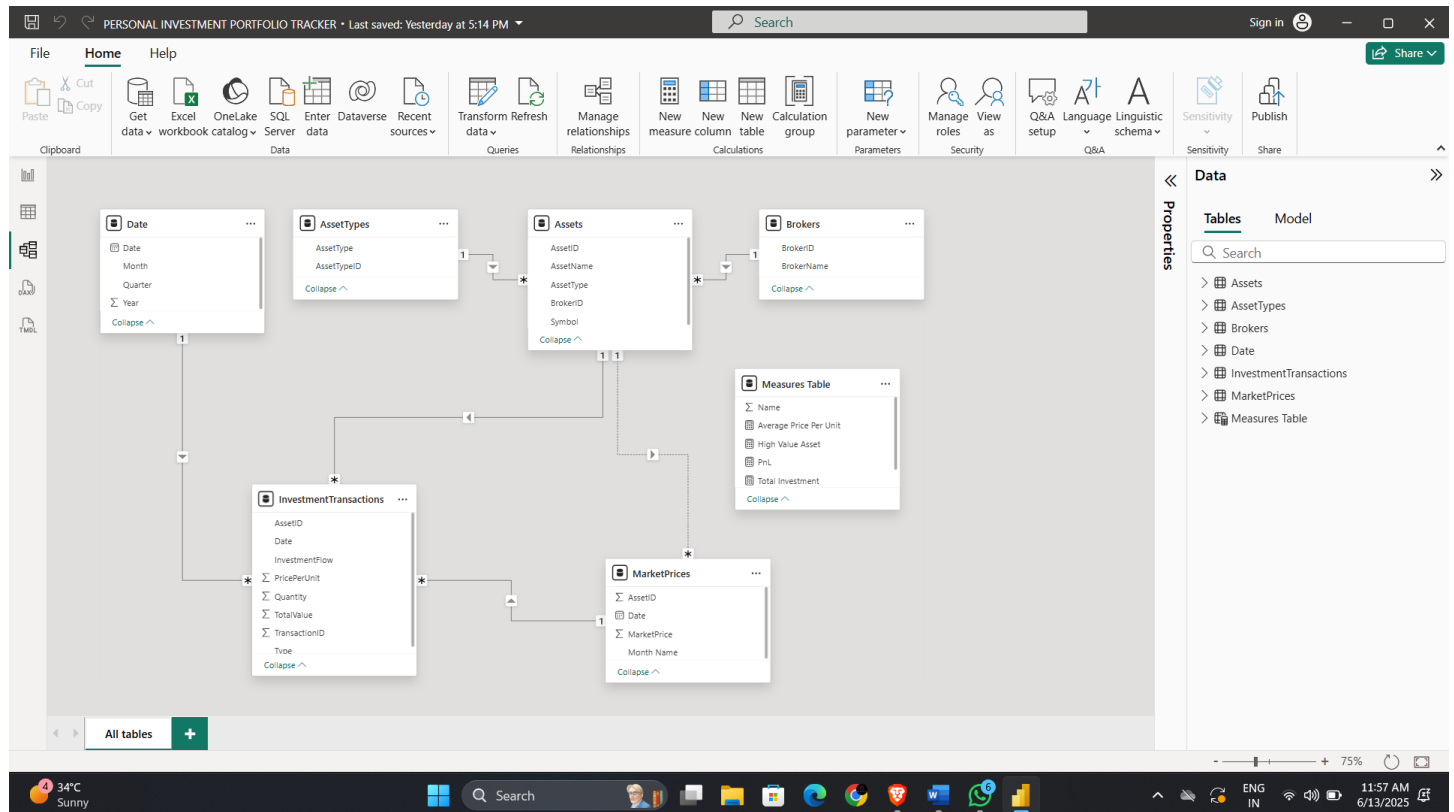
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Step 3: Data Modeling

Created relationships between the tables (BrokerID, AssetID, etc.) in Model view.



Step 4: DAX Measures Created

Created basic measures like total investment, total quantity, and average price per unit.

```
1 Average Price Per Unit = AVERAGE(InvestmentTransactions[PricePerUnit])
```

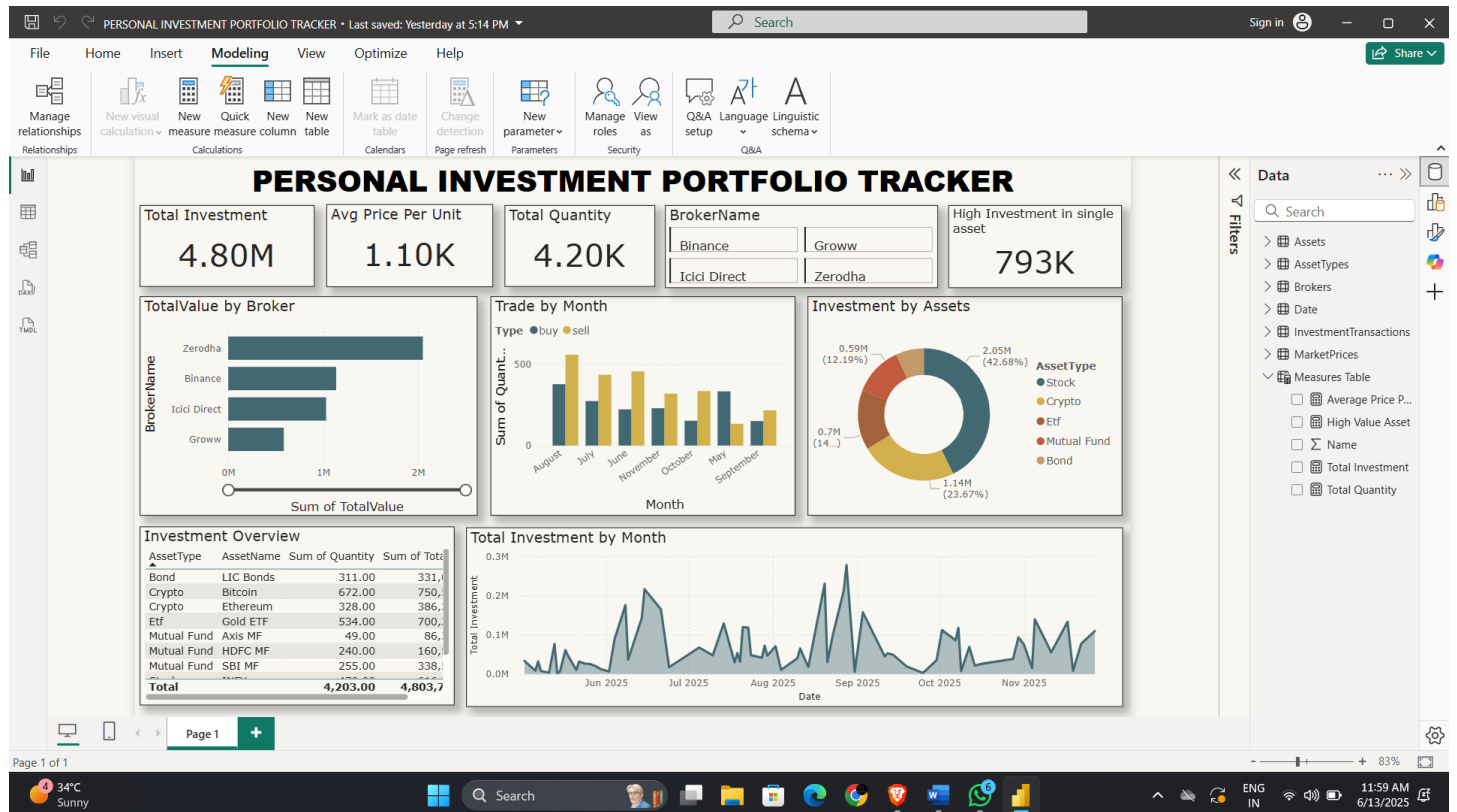
```
1 High Value Asset =  
2 MAXX(  
3     VALUES(Assets[AssetName]),  
4     CALCULATE(SUM(InvestmentTransactions[TotalValue]))  
5 )  
6
```

```
1 Total Investment = SUM(InvestmentTransactions[TotalValue])
```

```
1 Total Quantity = SUM(InvestmentTransactions[Quantity])
```

Step 5: Visualizations

Used cards, bar charts, pie charts, line charts, and tables to represent data interactively.



5. Conclusion

This dashboard enables personal investors to easily monitor where their money is distributed, which broker holds the highest value, and how investments evolve over time.

6. Challenges Faced

- **Handled Placeholder Values ("--"):** Replaced non-null placeholders with blanks or filtered them out to ensure cleaner slicers and accurate visuals.
- **Resolved Data Type Issues:** Converted incorrectly imported text fields (like quantity and value) to proper numeric formats to enable calculations.
- **Removed Duplicates and Blanks:** Identified and removed duplicate and blank rows to prevent inflated totals and misleading analytics.