

Aims Grid

Purpose:

To unlock valuable sales insights previously unavailable to the sales team, supporting better decision-making. This also includes automating processes to reduce the manual effort spent on data collection and analysis.

Stakeholders:

- Sales Director: Key decision-maker looking for actionable insights.
- Marketing Team: Uses the data to adjust strategies and target profitable markets.
- Customer Service Team: Improves customer satisfaction based on data-driven insights.
- Data & Analytics Team: Monitors and ensures data integrity and insights generation.
- IT Department: Supports infrastructure and resolves technical issues related to the dashboard.

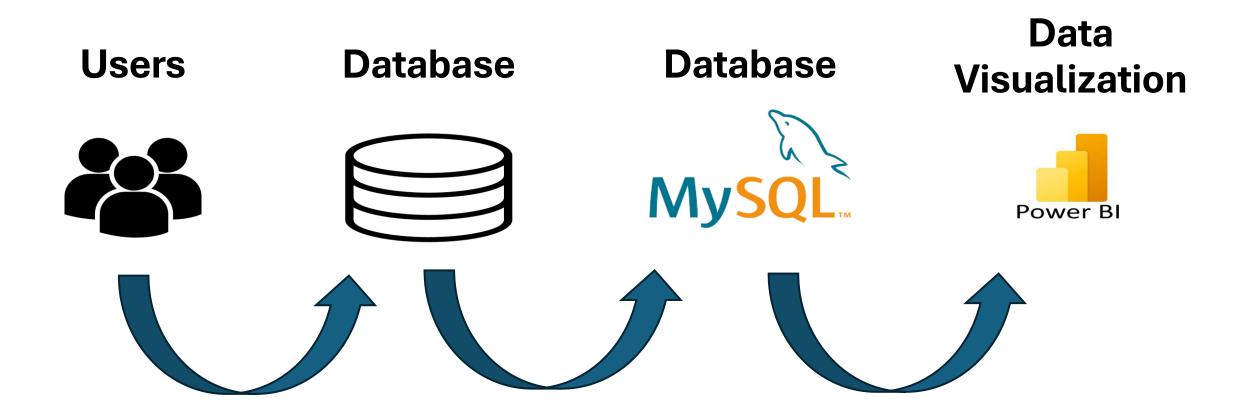
End Result:

A fully automated, interactive dashboard providing up-to-date sales insights that empower teams to make data-driven decisions quickly and effectively.

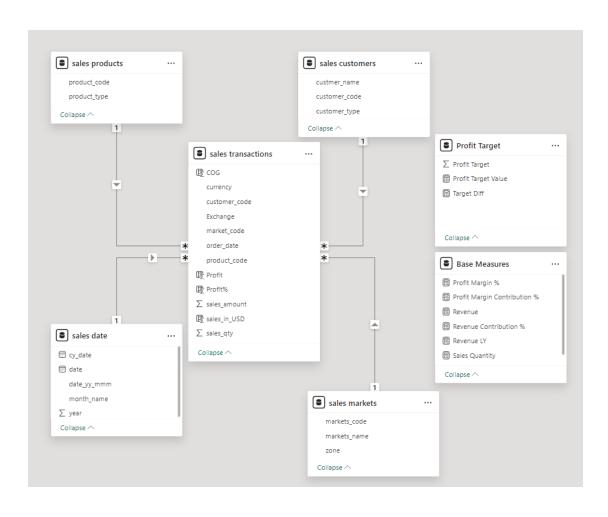
Success Criteria:

- Dashboards provide real-time sales insights, enabling the team to make timely decisions.
- Sales team achieves better decisions that improve cost efficiency by at least 10%.
- Analysts save 20% of their time by automating data gathering, allowing them to focus on value-added activities.

Data Import from SQL Server



Star schema



➤ What is a Star Schema?

- A **Star Schema** is a type of database schema that organizes data into fact and dimension tables, making it simple to use for analysis.
- The **Fact Table** is at the center, holding quantitative data (e.g., sales transactions), while **Dimension Tables** surround it, holding descriptive data (e.g., products, dates, markets).

➤ Benefits of Star Schema:

- **Simplifies Queries**: By organizing data into dimensions, querying becomes easier, which is critical for tools like **Power BI**.
- Optimizes Performance: It's designed for efficient read operations, making it fast to retrieve insights.
- Supports Data Visualization: The clear structure is ideal for dashboards like yours, where the **relationships** between tables are key to building effective visuals.

Data Cleaning

▶ Data Cleaning Process Using Power Query (DAX):

• Employed **DAX (Data Analysis Expressions)** in **Power Query** within Power BI to automate the data cleaning process, ensuring consistency and accuracy across the dataset.

➤ Key Data Cleaning Steps:

1. Handling Negative and Zero Values:

• Removed transactions with **negative** and **zero values**, as they distort metrics like revenue and profit.

2. Currency Conversion:

 Applied a consistent currency exchange process to convert all transactions into a unified currency for accurate comparison across markets.

3. Removing Null Values:

 Removed null values in key fields (e.g., customer codes, product codes) to maintain data integrity.

4. Removing Duplicated Data:

• Eliminated **duplicate records** to ensure accurate analysis and avoid counting the same transaction multiple times.





Sales Analysis Dashboard

Total Revenue

\$11.8M

Total Profit

\$607.0K

Total Quantity

2.43M

Avg Profit%

7.73%

Total Trans.

148.67K

Ava Profit/

Transaction \$4

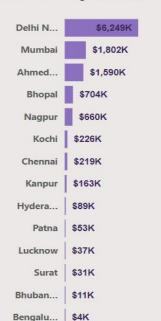
Key Insights

Profit Analysis Market

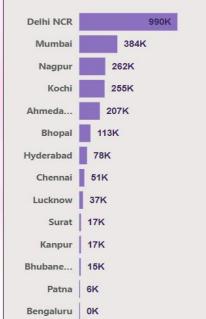
Top Markets

Profit Analysis Customers

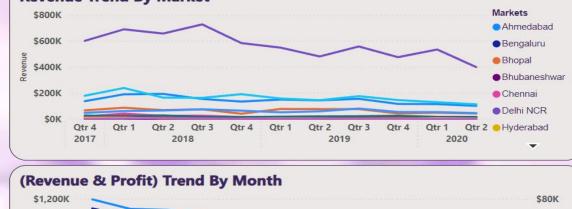
Revenue by Market







Revenue Trend By Market





Top Customers

Detailed information

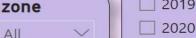




Year













Sales Analysis Dashboard

Profit Analysis Market

Top Markets

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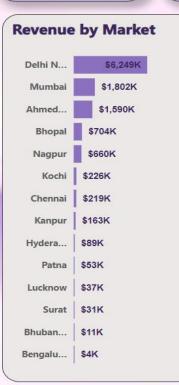
Ava Profit/ Transaction

\$4

Profit Analysis Customers

Top Customers

Detailed information













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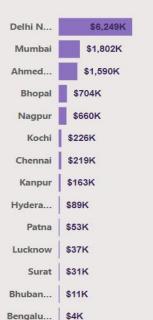


Profit Analysis Market

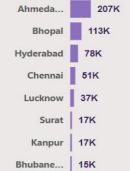
Top Markets

Profit Analysis Customers

Revenue by Market







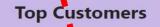
Bengaluru

Kochi

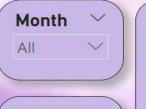








Detailed information





Select all

Year



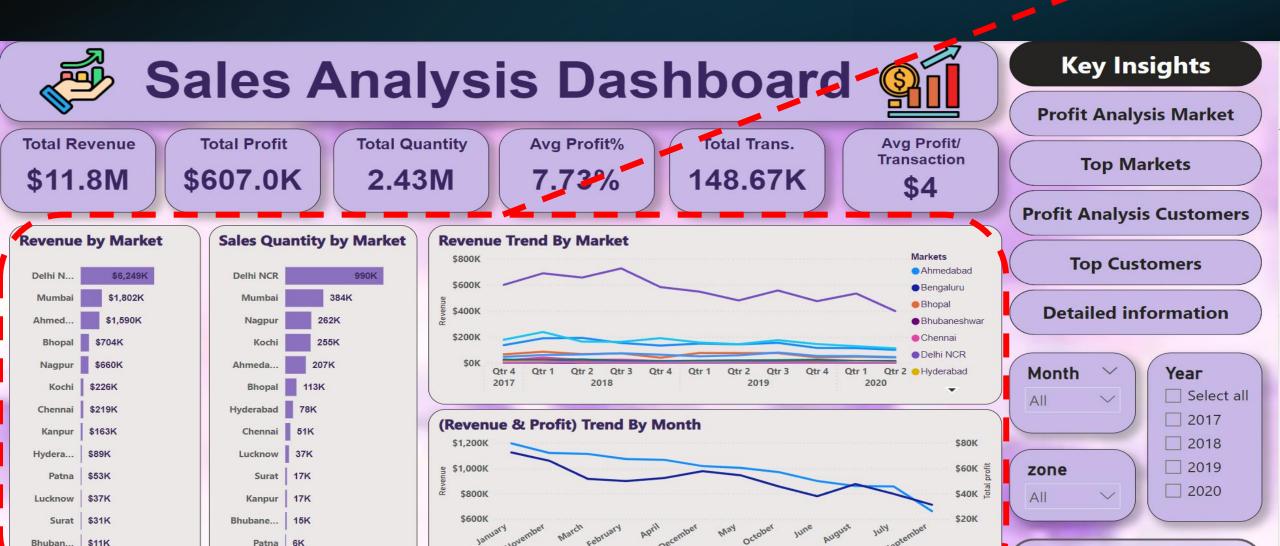


Bengalu...

Bengaluru



Clear all Filters



Revenue Total profit



Sales Analysis Dashboard



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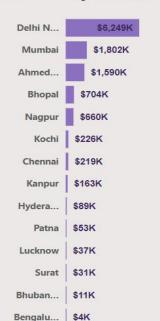
Avg Profit/ Transaction

\$4

Top Markets

Profit Analysis Customers

Revenue by Market



Sales Quantity by Market

Delhi NCR 990K

Mumbai 384K

Nagpur 262K

Kochi 255K

Ahmeda... 207K

Bhopal 113K

Hyderabad 78K

Chennai 51K

Lucknow 37K

Surat 17K

Kanpur 17K

Bhubane... 15K

Patna 6K

Bengaluru 0K

Revenue Trend By Market Markets \$800K Ahmedabad Bengaluru Bhopal \$400K Bhubaneshwar \$200K Chennai Delhi NCR Otr 2 Otr 3 Otr 2 Otr 3 Qtr 1 Qtr 2 Hyderabad Otr 1 2019

(Revenue & Profit) Trend By Month
\$1,200K
\$1,000K
\$800K
\$800K
\$600K

January March February April December May October June August July September September

Revenue Total profit

Top Customers

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2019



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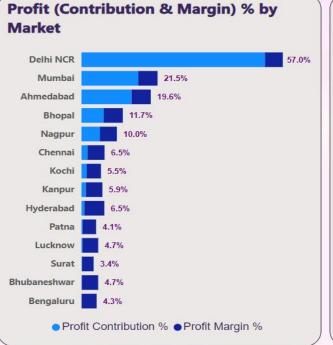
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Detailed information

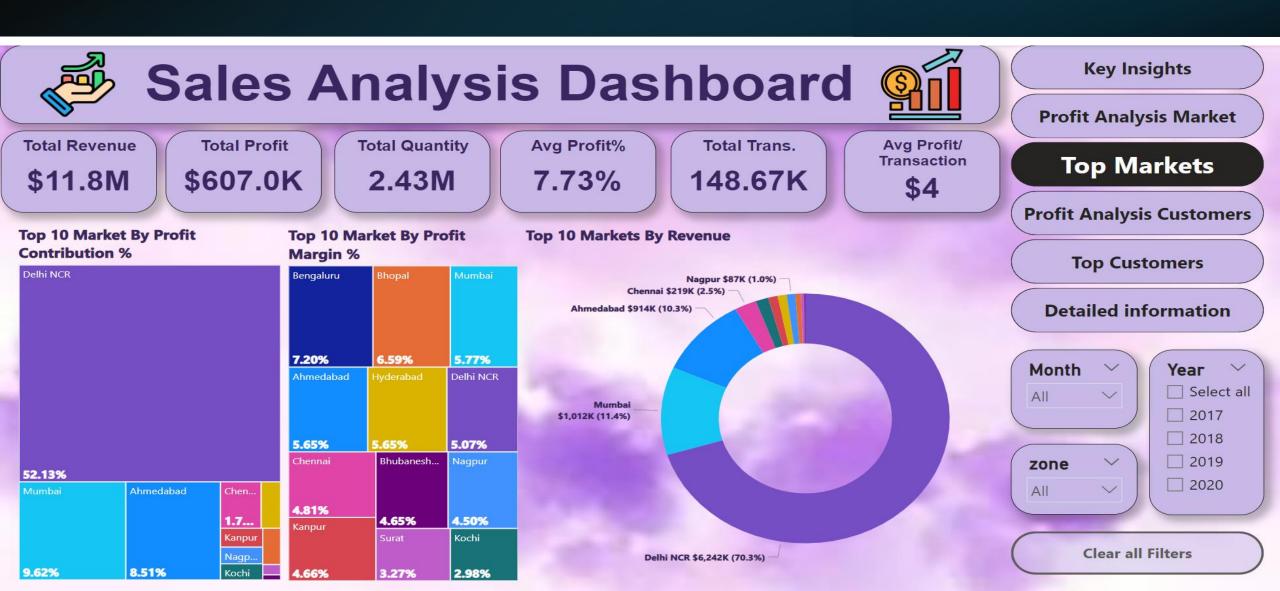


Clear all Filters

Profit (Contribution & Margin) % by Market Delhi NCR 21.5% Mumbai Ahmedabad Kochi Hyderabad Lucknow Profit Contribution % Profit Margin %









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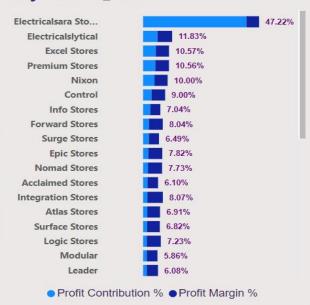
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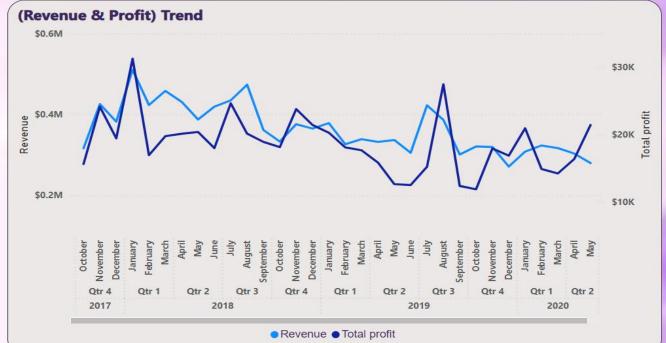
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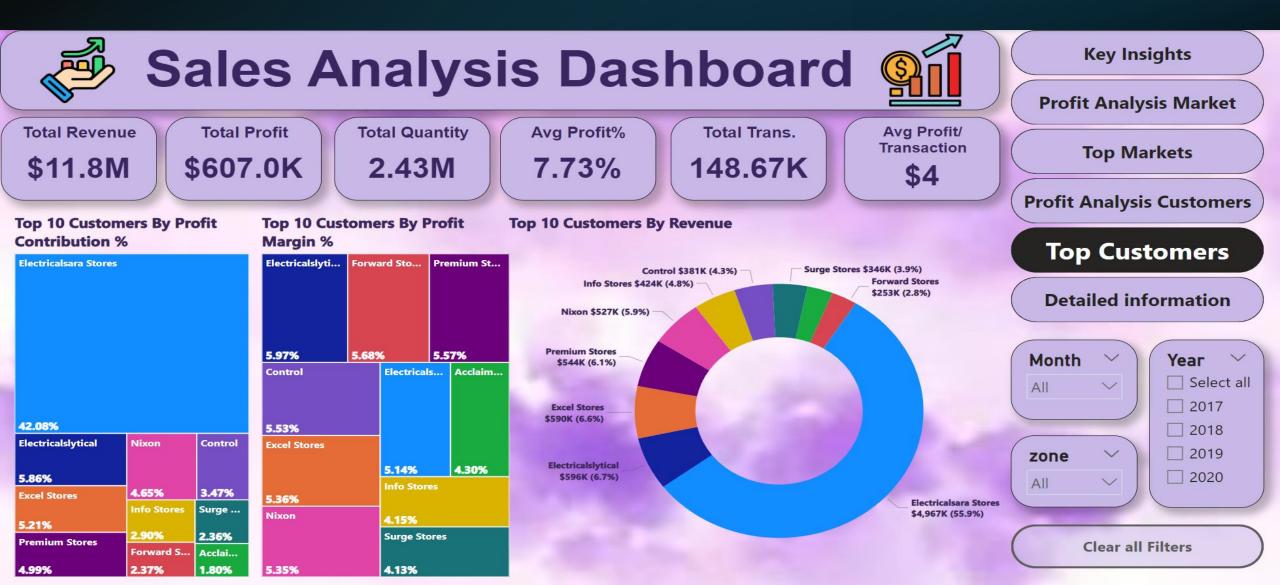


Clear all Filters

Profit Contribution % and Profit Margin % by custmer_name









Sales Analysis Dashboard

Revenue

Cont. %

41.95%

5.03%

4.98%

4.59%

4.45%

3.58%

3.22%

2.92%

2.15%

2.14%

1.90%

1.80%

1.77%

1.76%

1.69%

1.68%

1.55%

1.42%

1.34%

1.32%

1.28%

1.05%



Total Revenue

\$11.8M

custmer name

Electricalsara Stores

Electricalslytical

Premium Stores

Excel Stores

Info Stores

Surge Stores

Epic Stores

Modular

Atlas Stores Leader

Surface Stores

Logic Stores

Unity Stores

Path

Integration Stores

Electricalsopedia Stores

Acclaimed Stores

Forward Stores

Nomad Stores

Electricalsocity

Nixon

Control

Total Profit

\$607.0K

Profit

\$35,566

\$31,631

\$30,278

\$28,208

\$17,589

\$21,082

\$14,305

\$10.940

\$14,357

\$12,862

\$12,182

\$8,242

\$9,096

\$10,412

\$9,088

\$9,594

\$9,114

\$8,913

\$4.052

\$5,990

\$10,621

Average

of Profit%

7.97%

8.12%

7.86%

7.79%

7.49%

7.93%

7.83%

7.75%

7.83%

7.56%

7.55%

7.78%

7.71%

7.92%

7.76%

6.83%

7.96%

8.00%

7.52%

8.32%

7.19%

7.49%

COG

\$4,966,869 \$4,711,454 \$255,416

\$560.165

\$558,473

\$513,553

\$498,796

\$406,722

\$360,182

\$331,699

\$243,436

\$238,593

\$212,674

\$200,690

\$201.637

\$199,462

\$190,190

\$189,271

\$173,403

\$157,304

\$150,060

\$147.038

\$147,375

\$117,740

Revenue

\$595,730

\$590,103

\$543,831

\$527,004

\$424,311

\$381,264

\$346,005

\$254,376

\$252,949

\$225,536

\$212,872

\$209.879

\$208.558

\$200,602

\$198,360

\$182,997

\$167,924

\$159,174

\$155,951

\$151,427

\$123,730

Total Quantity

2.43M

Profit

Cont. %

42.08%

5.86%

5.21%

4.99%

4.65%

2.90%

3.47%

2.36%

1.80%

2.37%

2.12%

2.01%

1.36%

1.50%

1.72%

1.50%

1.58%

1.75%

1.50%

1.47%

0.67%

0.99%

Profit

Margin %

5.14%

5.97%

5.36%

5.57%

5.35%

4.15%

5.53%

4.13%

4.30%

5.68%

5.70%

5.72%

3.93%

4.36%

5.19%

4.58%

5.24%

6.32%

5.73%

5.72%

2.68%

4.84%

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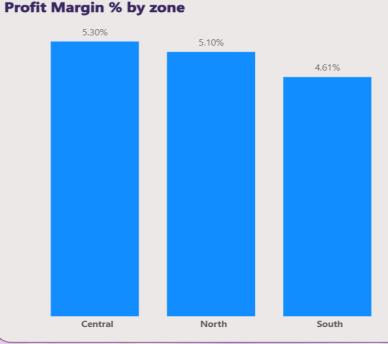
Profit Analysis Market

Top Markets

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Year ☐ Select all

__ 2017

2018

2019

2020