

Sales Insights Project Report

Purpose:- To uncover previously hidden sales insights that support better decision-making for sales teams, while automating the process to minimize time spent on manual data collection.

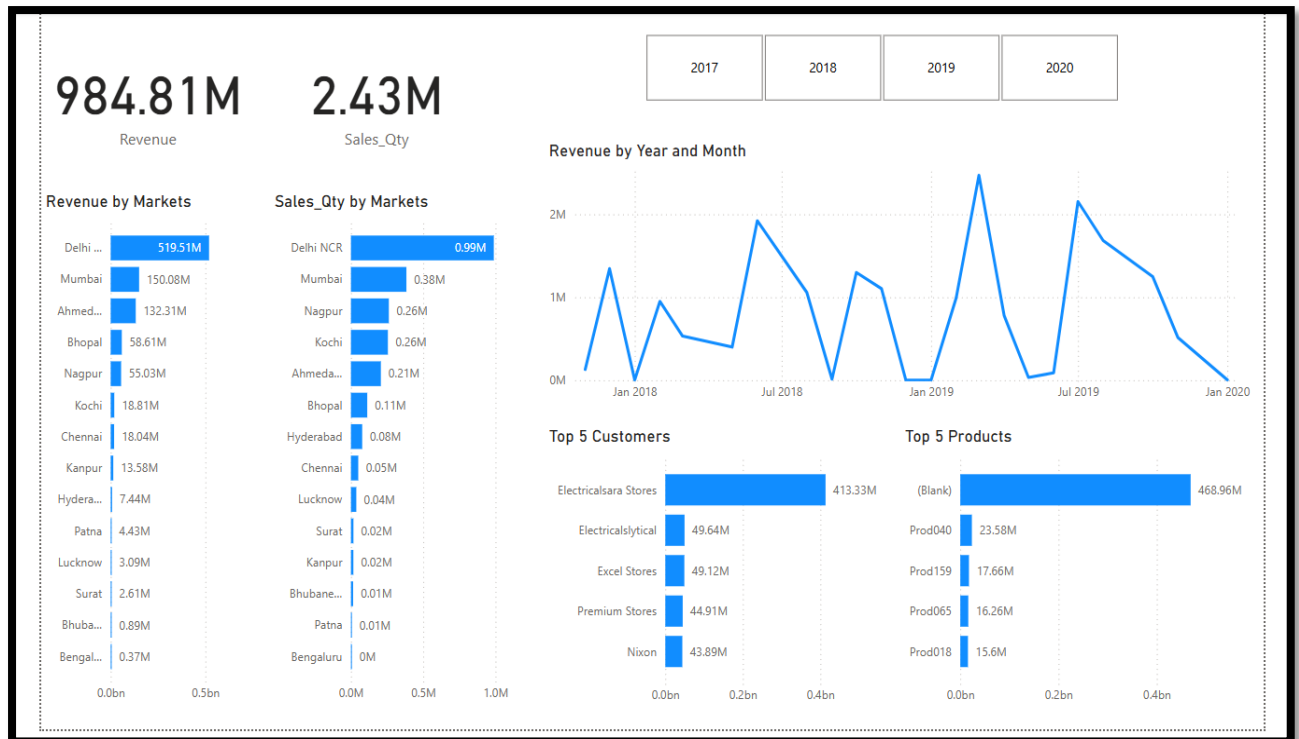
Stakeholders:- Sales Director, Marketing Team, Customer Service Team, Data & Analytics Team, IT

End Result:- An automated dashboard providing quick and latest sales insights in order to support data driven decision making.

Success Criteria:-

1. Dashboard uncovering sales order insights with latest data available.
2. Sales team able to take better decision and prove 10% cost savings of total spend.
3. Sales analyst stop data gathering manually in order to save 20% of their business time and reinvest it in value added activity.

Conclusions Drawn from Analysis



*Sales_insights Dashboard, developed using Power BI

- **Delhi NCR** is the top-performing market, contributing over **519.5M** in revenue and nearly **1M** in sales quantity, highlighting strong regional demand.
- There's a clear **seasonal sales trend**, with peak revenue observed during mid-2018 and mid-2019.
- **Electricalsara Stores** and **Product040** are among the top-performing customer-product pairs, whereas a large portion of sales revenue (**~469M**) is attributed to missing product names ("**Blank**"), (suggesting data quality issues.)
- Lower-performing regions such as **Bengaluru**, **Bhubaneswar**, and **Surat** indicate potential areas for **sales strategy improvement or reallocation**.

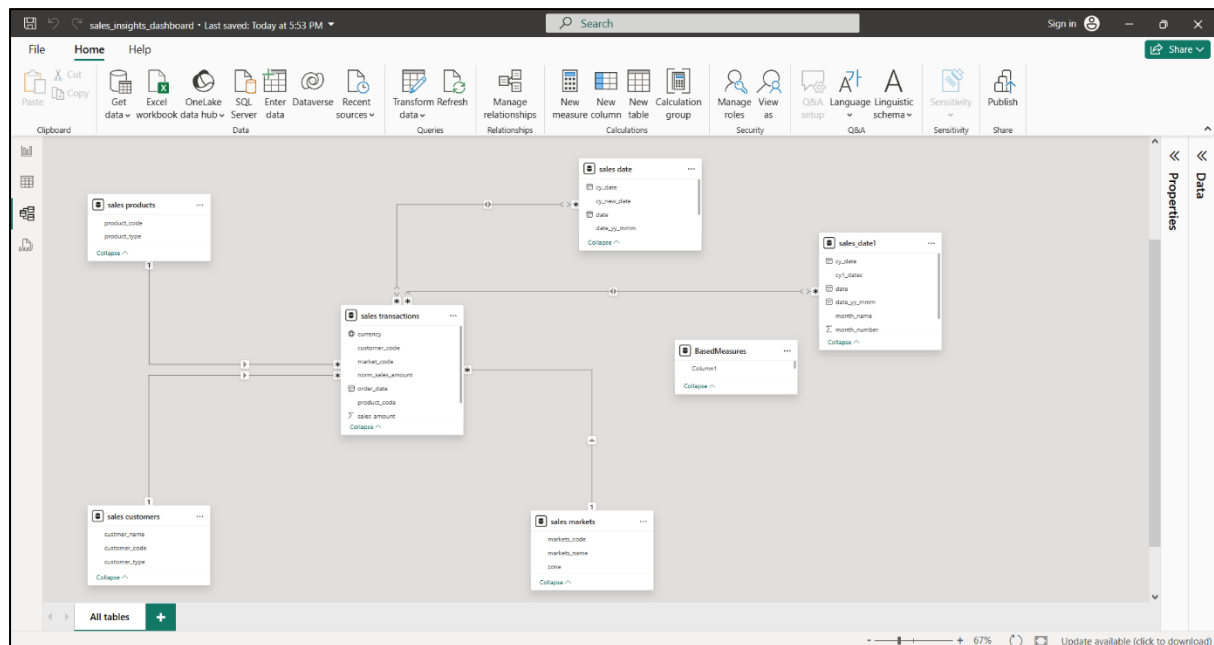
Technical Aspects of Project

Tech-Stack used:-

1. MySQL
2. Power BI Desktop and Query editor

Steps followed:-

1. **Data Sourcing:-** Extracted dataset from MySQL Database by connecting Power BI desktop to MySQL server, and organized connections by creating Relational Schema in Power BI Desktop.



2. **Data Wrangling:-** Performed Data Wrangling using Power Query Editor to clean and format raw fetched data, in order to improve efficiency of output.

Query: = Table.SelectRows("clean up currency", each ([sales_amount] <> -1 and [sales_amount] <> 0))

	product_code	customer_code	market_code	order_date	sales_qty	sales_amount	currency
1	Prod001	Cus001	Mark001	10-10-2017	100	41241	INR
2	Prod002	Cus003	Mark003	06-04-2018	1	875	INR
3	Prod002	Cus003	Mark003	11-04-2018	1	583	INR
4	Prod002	Cus004	Mark003	18-06-2018	6	7176	INR
5	Prod003	Cus005	Mark004	20-11-2017	59	500	USD
6	Prod003	Cus005	Mark004	22-11-2017	36	250	USD
7	Prod003	Cus005	Mark004	23-11-2017	39	21412	INR
8	Prod003	Cus005	Mark004	27-11-2017	35	19213	INR
9	Prod003	Cus005	Mark004	28-11-2017	310	170185	INR
10	Prod003	Cus005	Mark004	29-11-2017	184	101194	INR
11	Prod003	Cus005	Mark004	30-11-2017	35	29213	INR
12	Prod004	Cus005	Mark004	29-11-2017	17	9426	INR
13	Prod004	Cus005	Mark004	19-12-2017	1	218	INR
14	Prod005	Cus005	Mark004	07-08-2018	5	3093	INR

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 18:24

3. **Data Visualization:-** Used Power BI desktop to create Dashboard which mainly includes:-

- KPIs for total revenue and sales quantity
- Dynamic year filters (2017–2020)
- Bar charts for regional and customer/product-level analysis
- Time series visualization for sales trends

4. **Data Validation/Output Reverification:-** Performed data validation and output reverification by cross-checking the results generated in Power BI dashboards with SQL queries to ensure accuracy and consistency.

Link to MySQL queries:- https://drive.google.com/file/d/1QCCjLH8_hTvY-TVmB8l9ZtbSd1rXeZgr/view?usp=sharing

