

Car Sales Dashboard

Power BI Project
Created by Siddhesh Sable

Summary

- ▶ Problem: Sales data scattered across systems with no real-time visibility
- ▶ Solution: Built an interactive Power BI dashboard with 12+ KPIs and 6 visuals
- ▶ Tools Used: Power BI, Power Query, DAX
- ▶ Outcome: Enabled real-time tracking, YOY analysis, and region-wise insights

Project Objective

- ▶ To design a dynamic Power BI dashboard that provides real-time car sales insights through meaningful KPIs and interactive visuals for data-driven decision-making.

KPIs Tracked

- ▶ ☒ Sales Metrics

- ▶ Year-to-Date (YTD) Total Sales
- ▶ Month-to-Date (MTD) Sales
- ▶ Year-over-Year (YOY) Growth
- ▶ YTD vs Previous YTD (PTYD)

- ▶ ☒ Cars Sold Metrics

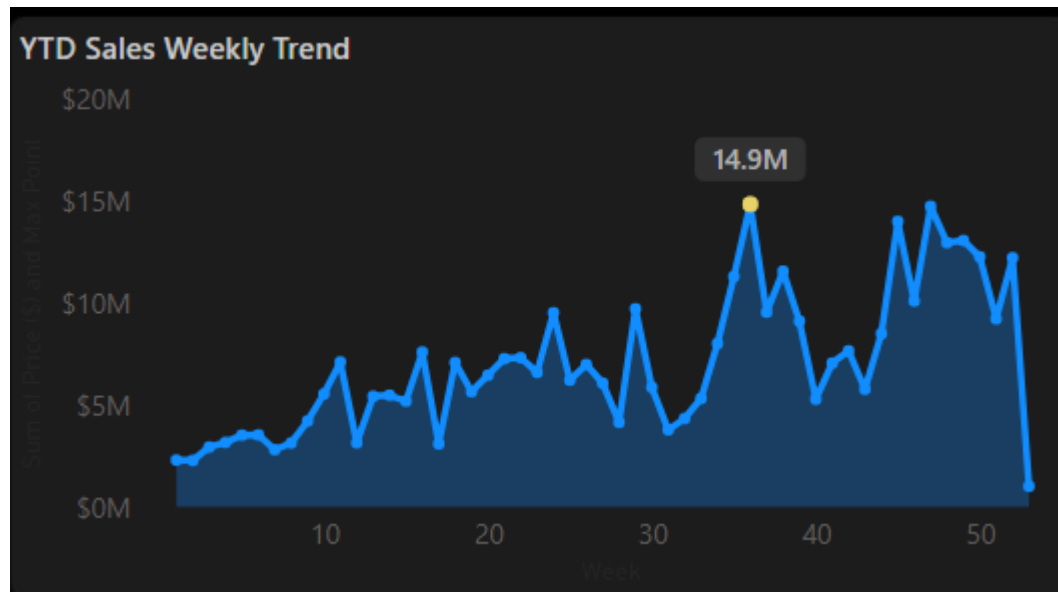
- ▶ YTD Units Sold
- ▶ MTD Units Sold
- ▶ YOY Growth in Sales Volume
- ▶ YTD vs PTYD Sales

- ▶ ☒ Average Price Metrics

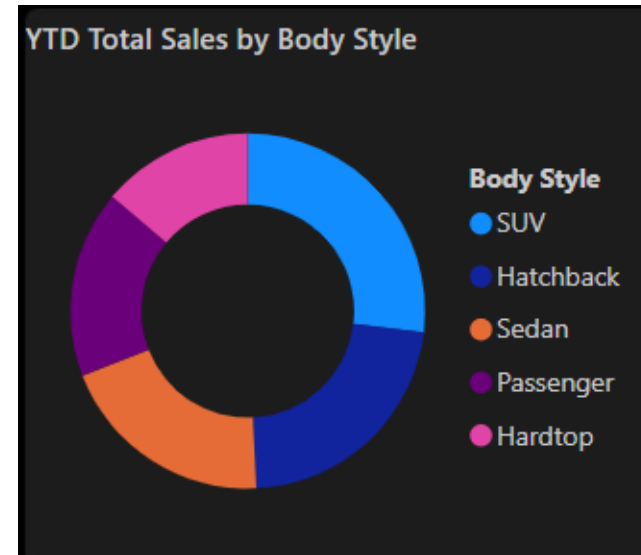
- ▶ YTD Average Price
- ▶ MTD Average Price
- ▶ YOY Growth in Price
- ▶ YTD vs PTYD Average Price

Visuals Implemented

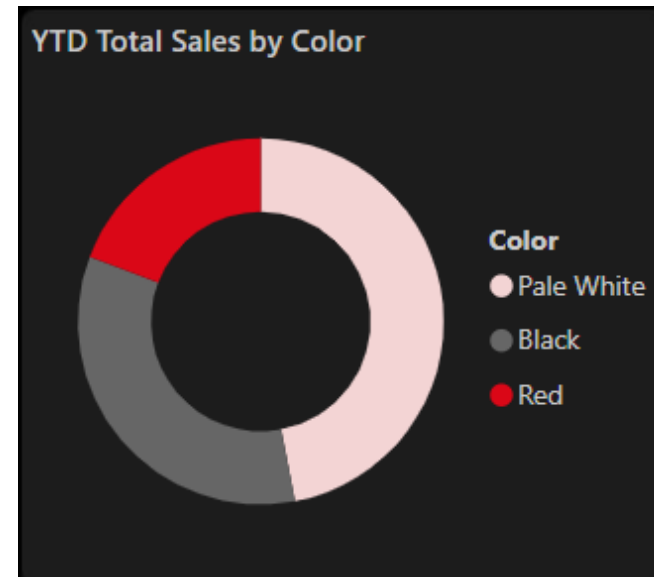
1. Line Chart - YTD Sales Weekly Trend:



2. Pie Chart - Sales by Body Style:



3. Pie Chart - Sales by Color:



4. Map Chart - Cars Sold by Region:



5. Company Wise Sales Trend:

Company Wise Sales Trend					
Company	YTD Avg Price	YTD Cars Sold		YTD Total Sales	%GT YTD Total Sales
Acura	\$24.9K	<div></div>	376.0	\$9.3M	<div></div> 2.52%
Audi	\$22.2K	<div></div>	259.0	\$5.8M	<div></div> 1.55%
BMW	\$25.7K	<div></div>	445.0	\$11.4M	<div></div> 3.08%
Buick	\$32.2K	<div></div>	243.0	\$7.8M	<div></div> 2.11%
Cadillac	\$42.2K	<div></div>	363.0	\$15.3M	<div></div> 4.13%
Chevrolet	\$26.0K	<div></div>	1043.0	\$27.1M	<div></div> 7.30%
Chrysler	\$25.9K	<div></div>	618.0	\$16.0M	<div></div> 4.31%
Dodge	\$26.4K	<div></div>	949.0	\$25.0M	<div></div> 6.74%

6. Details Grid - All Sales Data:

Car_id	Date	Customer Name	Dealer_Name	Company	Color	Model	Total Sales	
C_CND_000001	02 January 2022	Geraldine	Buddy Storbeck's Diesel Service Inc	Ford	Black	Expedition	<div></div>	\$26K
C_CND_000015	02 January 2022	Zainab	Buddy Storbeck's Diesel Service Inc	Chrysler	Pale White	Sebring Coupe	<div></div>	\$26K
C_CND_000059	04 January 2022	Hershy	Buddy Storbeck's Diesel Service Inc	Mercedes-B	Pale White	C-Class	<div></div>	\$12K
C_CND_000091	05 January 2022	Wadia	Buddy Storbeck's Diesel Service Inc	Nissan	Pale White	Maxima	<div></div>	\$22.5K
C_CND_000104	06 January 2022	Abel	Buddy Storbeck's Diesel Service Inc	Mercedes-B	Black	SL-Class	<div></div>	\$38K
C_CND_000137	12 January 2022	Jada	Buddy Storbeck's Diesel Service Inc	Lexus	Pale White	ES300	<div></div>	\$27.25K
C_CND_000194	17 January 2022	Ava	Buddy Storbeck's Diesel Service Inc	Mitsubishi	Black	3000GT	<div></div>	\$39K
C_CND_000238	21 January 2022	Adrian	Buddy Storbeck's Diesel Service Inc	Mitsubishi	Pale White	Galant	<div></div>	\$36K
C_CND_000244	23 January 2022	Leo	Buddy Storbeck's Diesel Service Inc	Cadillac	Pale White	Eldorado	<div></div>	\$31K
C_CND_000275	27 January 2022	Gabrielle	Buddy Storbeck's Diesel Service Inc	Chrysler	Pale White	Sebring Coupe	<div></div>	\$46K
C_CND_000319	03 February 2022	Katelyn	Buddy Storbeck's Diesel Service Inc	Mitsubishi	Pale White	Montero Sport	<div></div>	\$39K
C_CND_000370	06 February 2022	Heaven	Buddy Storbeck's Diesel Service Inc	Plymouth	Pale White	Prowler	<div></div>	\$71.5K
C_CND_000420	08 February 2022	Devin	Buddy Storbeck's Diesel Service Inc	Acura	Pale White	TL	<div></div>	\$24K
C_CND_000429	09 February 2022	Michael	Buddy Storbeck's Diesel Service Inc	Mercedes-B	Black	S-Class	<div></div>	\$85K
C_CND_000443	09 February 2022	Loreley	Buddy Storbeck's Diesel Service Inc	Mitsubishi	Black	Montero Sport	<div></div>	\$45K
C_CND_000463	14 February 2022	Allison	Buddy Storbeck's Diesel Service Inc	Mitsubishi	Black	Eclipse	<div></div>	\$27.5K
C_CND_000493	15 February 2022	Lucia	Buddy Storbeck's Diesel Service Inc	Chevrolet	Pale White	Monte Carlo	<div></div>	\$21.2K
C_CND_000570	21 February 2022	Lillian	Buddy Storbeck's Diesel Service Inc	Cadillac	Pale White	Seville	<div></div>	\$22K
Total							\$6,71,525.465K	

Power BI Workflow:

End-to-End Dashboard Development Process:

1. Data Collection:

- Connected to the source (Excel)
- Analyzed structure of each source table before integrating with Power BI

2. Data Transformation (Power Query):

- Cleaned and normalized tables
- Removed duplicates and filtered missing values

3. Data Modeling:

- Established relationships between fact and dimension tables
- Added Date table for time intelligence (YTD, MTD, PTYD)

4. Measure Creation (DAX):

- Calculated YTD/MTD Sales, YOY Growth, PTYD Differences
- Created dynamic KPIs using CALCULATE, CONCATENATE and FORMAT functions

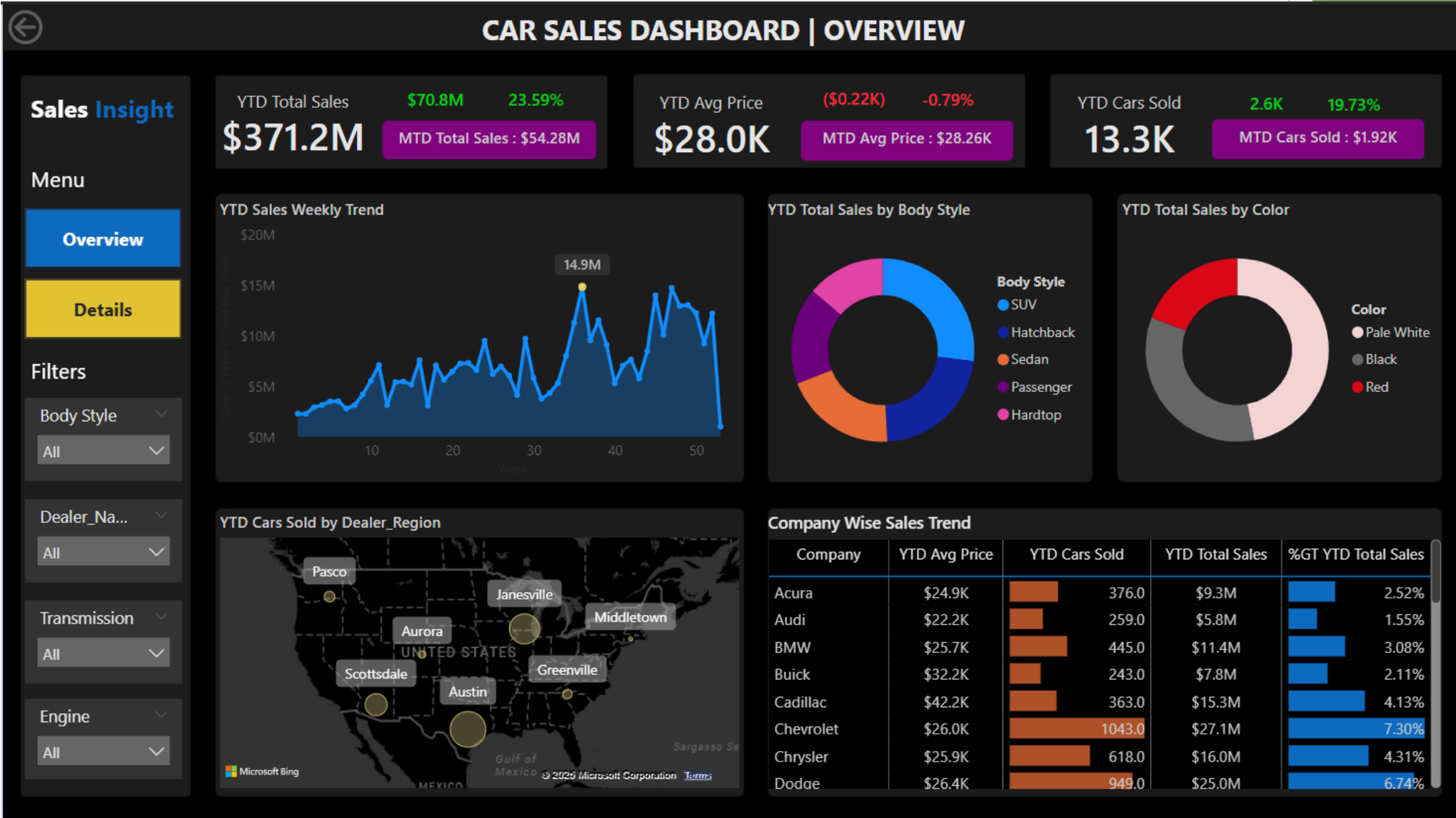
5. Visualization Layer

- Designed charts, KPI cards, and interactive filters
- Ensured visuals are responsive across slicers

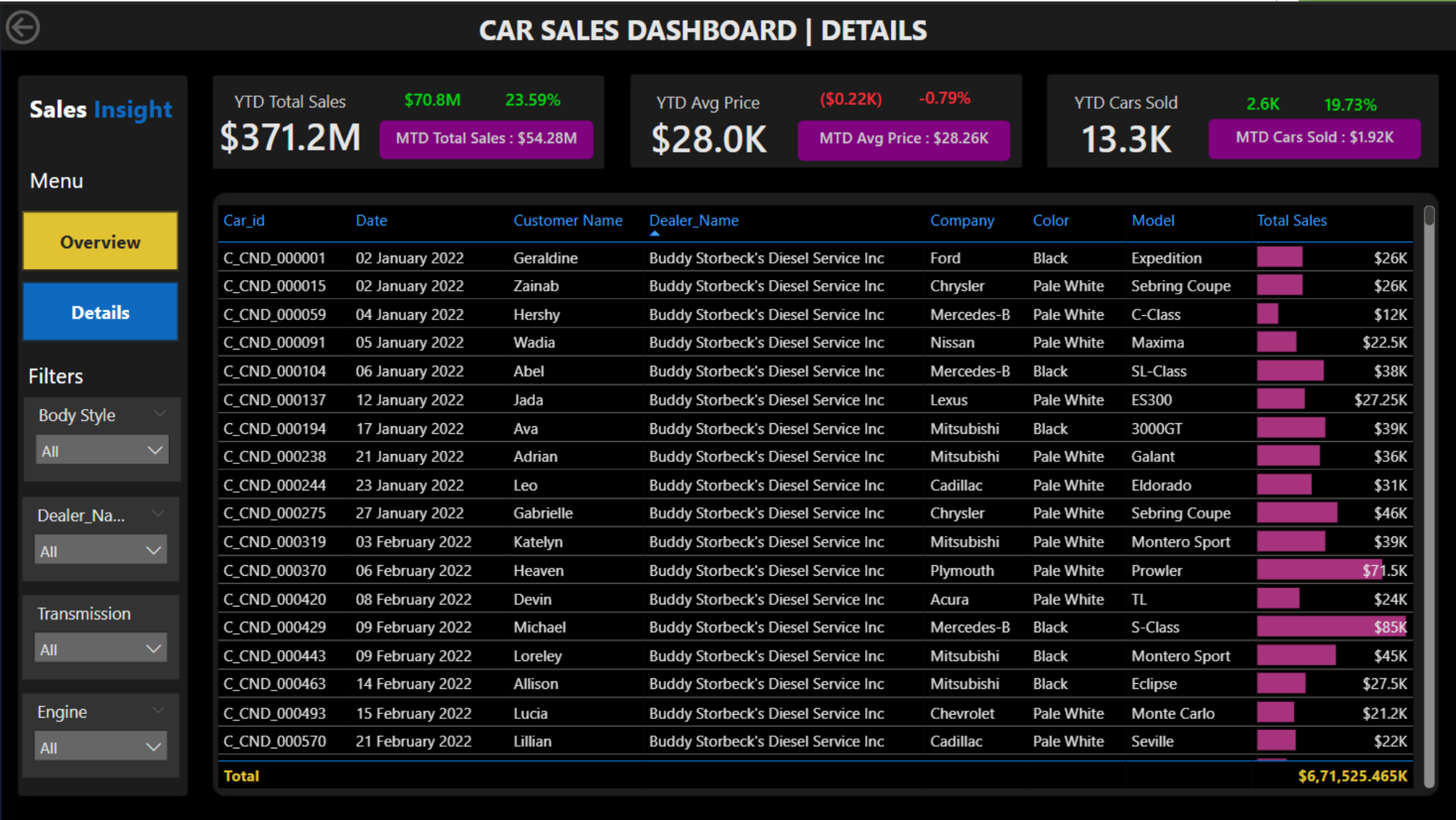
6. Dashboard Design & Usability

- Chose intuitive visuals to enhance readability
- Organized KPIs by theme: Sales, Price, Volume
- Used Slicers for a guided user experience

Dashboard Preview:



Details View:



Key Insights

Summary:

1. Total Sales (YTD): \$371.2M
2. YOY Growth (Sales): +23.59%
3. Avg Price (YTD): \$28,000 | YOY Change: -0.75%
4. Cars Sold (YTD): 13,300 units | YOY Growth: +24.57%

Additional Insights:

1. Weekly Peaks: Weeks 39, 46, and 50
2. Top Body Style: SUVs
3. Best-Selling Color: Pearl White (11.2K), then Black and Red
4. Top Region: Austin (4,135 units)
5. Top Brands:
Chevrolet (1,819), Dodge (1,671), Ford (1,614), Volkswagen (1,333),
Mercedes-Benz (1,285)

Impact and Next Steps

Business Impact:

- Enabled informed regional strategies
- Improved price benchmarking
- Faster executive-level reporting

Next Steps:

- Add mobile-optimized view
- Implement performance alerts
- Expand to post-sales service metrics

Conclusion:

This dashboard provides a data-driven overview of the dealership's performance and empowers decision-making across key areas:

Strong Sales Momentum: \$371M in YTD sales with a 23.6% increase in volume.

Product & Customer Insights: SUVs and Pale White vehicles lead in customer preference.

Regional Excellence: Austin emerges as the highest-performing region.

Brand Performance: Chevrolet, Dodge, and Ford top sales contributions

Strategic Opportunities: Targeted marketing, pricing optimization, and refined inventory planning.

By aligning insights with focused solutions, this dashboard serves as a foundation for sustained growth, improved efficiency, and more informed strategic direction.

Thank You!

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