
Car Sales Analysis – Executive Summary

Introduction

This project presents a comprehensive analysis of car sales data using SQL. The goal was to uncover key trends, pricing patterns, and popular car models to provide actionable insights for dealerships and automotive businesses.

Objectives

- Analyze car sales trends across states and time periods
 - Identify top-selling car brands and models
 - Explore average selling prices across different locations
 - Examine seasonal sales patterns and anomalies
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Key Insights

- **California** recorded the highest number of car sales, followed by **Texas**.
 - The **Infiniti G Sedan** emerged as the most popular model, with **BMW 3 Series** taking second place.
 - Average selling prices were highest in **Quebec** and **Tennessee**.
 - **December** and **January** were the peak sales months, highlighting seasonal demand.
 - Several vehicles sold above their model's average price, indicating strong demand or premium condition.
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Recommendations

- **Prioritize inventory** in high-sales states like California and Texas
 - **Time marketing campaigns** for December and January to leverage peak demand
 - **Feature high-demand models**, such as Infiniti G Sedan, in advertisements and promotions
 - **Offer premium packages** in markets with higher average selling prices
 - **Analyze characteristics** of vehicles sold above average (e.g. condition, mileage, trim) to replicate success
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Tools & Techniques

- **SQL (MySQL):** Data cleaning, aggregation, window functions
- Exploratory data analysis (EDA) and trend identification techniques