Car Rental Inventory Management System

This document contains comprehensive information about our car rental inventory, including detailed specifications, pricing, and availability data. Our fleet consists of various vehicle types with different engine configurations, customer ratings, rental durations, and special discount offers. The data presented here is essential for: • Inventory management and tracking • Customer service and recommendations • Pricing strategy and discount analysis • Fleet optimization and planning • Revenue forecasting and reporting

Dataset Description

Engine Types: Our fleet includes Hybrid, Electric, Gasoline, and Diesel vehicles, each offering different benefits in terms of fuel efficiency, environmental impact, and performance. Rating System: Vehicles are rated as High, Medium, or Low based on customer satisfaction, reliability, and overall performance metrics. Rental Duration: Rental periods range from 3 to 8 days, with longer rentals often offering better value and discounts. Discount System: Discounts are applied based on various factors including rental duration, vehicle type, seasonal demand, and customer loyalty status. Unit Availability: The number of units available for each vehicle configuration, updated in real-time based on current bookings and returns.

Detailed Inventory Data

Engine	Rating	Days	Discount (%)	Units Available
Hybrid	Medium	3	0	1
Electric	High	6	33	1
Electric	High	4	1	3
Hybrid	High	6	15	2
Electric	High	4	32	6
Gasoline	Medium	5	10	2
Diesel	Low	7	20	1
Hybrid	Medium	4	5	3
Electric	Medium	5	25	2
Gasoline	Low	3	0	1
Diesel	Low	4	10	2
Hybrid	Medium	5	5	1

Electric	High	6	20	3
Gasoline	High	7	30	1
Diesel	High	5	25	2
Hybrid	High	8	35	1
Electric	High	6	30	4
Gasoline	Medium	6	15	2
Diesel	Medium	8	25	1
Hybrid	Medium	7	20	3
Electric	Medium	5	10	2
Gasoline	Low	4	5	1
Diesel	Low	6	15	2
Hybrid	Medium	5	10	1
Electric	High	7	20	3

Fleet Analysis Summary

Fleet Statistics:

Total vehicles in inventory: 51Average discount rate: 16.6%

Most common engine type: Electric (8 vehicles)
Most common rating: Medium (10 vehicles)

Engine Type Distribution:

Electric: 8 vehicles (32.0%)
Hybrid: 7 vehicles (28.0%)
Gasoline: 5 vehicles (20.0%)
Diesel: 5 vehicles (20.0%)

Rating Distribution:

Medium: 10 vehicles (40.0%)High: 10 vehicles (40.0%)Low: 5 vehicles (20.0%)

Business Insights and Recommendations

Revenue Optimization Opportunities:

- High-rated vehicles with longer rental periods show the best discount-to-demand ratios
- Electric vehicles are gaining popularity and may warrant increased inventory
- Hybrid vehicles offer a good balance between efficiency and customer satisfaction

Customer Service Considerations:

• Premium vehicles (High rating) should be prioritized for customer retention

- Discount strategies should be aligned with vehicle availability and demand patterns
- Regular inventory updates are crucial for accurate customer recommendations

Operational Efficiency:

- Monitor unit availability closely to prevent overbooking
- Implement dynamic pricing based on demand and availability
- Consider seasonal adjustments to discount strategies

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Total records: 25