

RANGER MOTORS DATABASE PROJECT

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SOLUTIONS

Our database project fills the need of those who would like to gather some summary information to describe the inventory of a car dealership. In particular, we focused on the used car dealership Ranger Motors Austin.

Whereas Ranger Motors' website allows a user to search for a car using pre-defined query conditions, our program allows the user more customization options for query building. Our program allows custom conditioning values for filtering queries, sorting of the results by custom values, and running of summary statistics on custom values of the results set.

So while the Ranger Motors' website has an inventory search functionality geared toward potential car customers, our inventory query functionality would be useful for those interested in learning about and describing the inventory as a whole. This is where our statistics based on aggregate functions come in handy.



ENTITY RELATION DIAGRAM

While we began our project with an ERD including several tables, we reduced the database to a single table over the course of the project. We found this interpretation more suitable to the particular dataset used for our project.

CarsForSale
VIN
Year
Make
Model
Body_Style
Mileage
Transmission
Engine
Exterior
Interior
Doors
Stock
Fuel_Mileage_City
Fuel_Mileage_Hwy
Conditon
Price

ISSUES TO BE RESOLVED

- We plan to make our database more maintainable by...
 - Making the program update the database instead of recreating it each time
 - Add more attributes to keep track of cars historically
 - Date added (Date type)
 - Sold (Boolean type)
 - Format the output such that it is more handsome

