

CS 166 Final Project: MechanicShopDB

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Overall assumptions

- Names can only consist of letters, spaces, hyphens, and apostrophes
- Phone numbers must be of format (###)###-####
- Address must be composed of only letters, numbers, spaces, hyphens, and periods
 - Addresses are stored in the form of Street Address, City, State, Zip Code
- A mechanic's years of experience may not be outside of 0-99
- A car's VIN is 16 characters made up of letters and digits
- A car's make can only consist of letters, numbers, spaces, hyphens, and ampersands
- A car's model can only consist of letters, numbers, spaces, and hyphens
- The mechanic shop only accepts cars from years 1970-2019
- Customer IDs, Mechanic IDs, Service request numbers, and closed service request numbers are composed of only digits
- New service requests can be made with the current date or a future date (appointment)
- To close a service request, it must be the day of or after the same date as it was initiated
- Closing a service request doesn't remove it from the Service_Request Table
- Total bill must be a integer
- Leading and ending whitespace from user input does not affect the database
- The data given to us won't have contiguous IDs (which is why we generate random numbers for the IDs)

- Users can't add a car unless they select an existing customer who owns the car or add a new customer
- Users can't initiate a service request unless they select a customer's car
 - Otherwise, user has the option to add a car to an existing customer or add a new customer and add a new car
- When a user adds a car, a tuple must also be added to the Owns relation including the Customer ID and Car VIN