DESIGN REPORT
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MINI - PROJECT ONE

Main functions

register_vehicle
auto_transaction
register_license
record_violation
search

Other functions include

drop_views_and_tables
create_views_and_tables
choice
setup_oracle_connection
people_info
people_vrecord
vehicle_history

Responsibilities

register_vehicle
It allows the user to register a vehicle by putting in all it's information such as (serial_no, maker, model, year, colour, type_id). It then allows the user to input information about the owner by inputing a sin number. If the owner isn't in the database it will allow the user to input information about the person. Then it will allow the user to assign the primary owner and a secondary owner (if applicable)

auto_transaction
It allows the user to input a transaction id, if there is already an auto transaction with the same id, it will allow the user to enter another transaction id. It will then allow the user to look up if the seller is in the system, and if not it will add that person. It will do the same with the buyer and the vehicle. Then it'll prompt the user to input a price and date, and then will delete the previous ownership (if applicable)

register_license
It allows the user to input a sin number of a person and will check to see if that person already has a license or not. If the person is not in the database yet, it will add that person. It will then prompt the user to enter a license number, and it will give an error message if it already exists. Then it will prompt the user to enter the class, photo, issuing date, and expiring date. Then it will add all this information into the database.

record_violation
It allows the user to input the sin number of the officer who ticketed the person, and will check if the officer is in the database or not. It will add the officer as person in the database if the officer doesn't exist. It will then allow the user to input a vehicle serial number and double check if that vehicle is in the database. It will continue to prompt the user to enter a serial number until the user inputs a correct one. Then it will ask for the primary owner information (ex. if the person who got ticketed isn't the primary owner, it will prompt the user to input the information for the primary owner). Then the prompts for the ticket number, violation type, place, description and date will occur.

search
It allows the user the choice of what search they'd like to make. There are three choices: (1) to look up a person's information, (2) to look up a person's violation records, and (3) to look up a vehicle's history. Each of these choices are supported by it's own seperate function. In the first function it asks to enter a license number or name. It will check if this person exists in the database. From that information, it will create a view that displays the name, license number, address, birthday, driving class, driving condition, and expiring data. The second one asks the user to enter either a license number or sin number. It will then create a view that shows the person's violation record which includes the name, ticket number, ticket type, date, place and description of the violation. The last one prompts the user to input a vehicle serial number. It will then create a view that shows the number of times it's been transfered from one person to another, the average price of the vehicle, and the number of violations it's been involved in.