

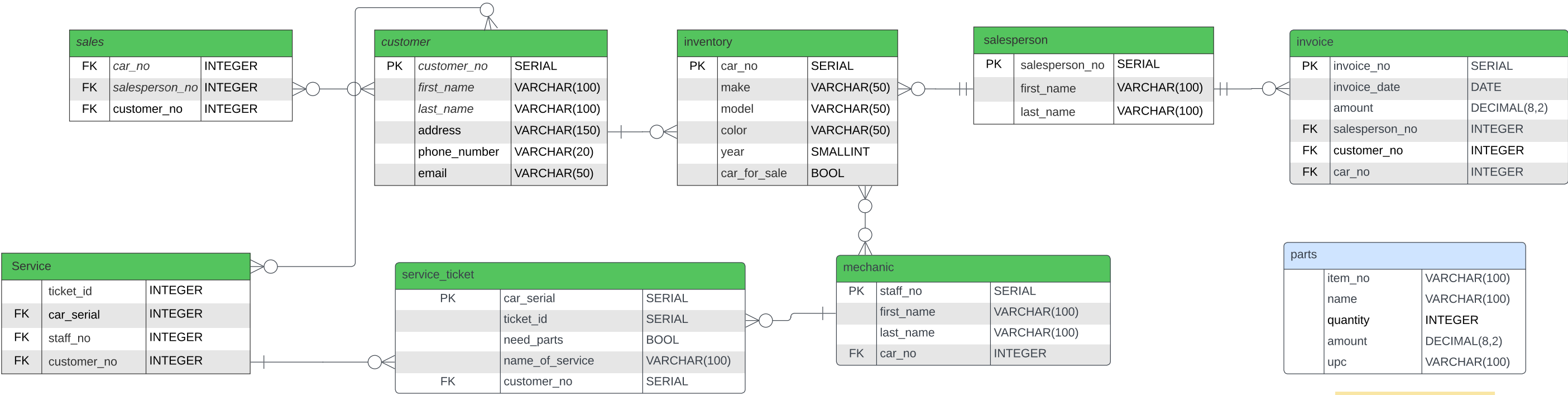
# SQL Car Dealership ERD

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The dealership sells both new and used cars, and it operates a service facility. Base your design on the following business rules:

## Diagram Key

- New
- Existing
- Proposed Table



The dealership sells cars and operates a service facility

A customer can purchase zero or many cars from this dealership. A customer may buy many cars, but each car is purchased by only one customer.

If a car is purchased it is treated as a sale. A customer may not want to purchase any cars at the moment. The customer may want to have their vehicle serviced

Each car that is sold will be linked to a salesperson that sold the vehicle. A salesperson may sell many cars, but each car is sold by only one salesperson.

An invoice is created everytime a car is sold. A salesperson writes a single invoice for each car he or she sells. An invoice can be used to identify the salesperson that sold the vehicle and information about the sale. A customer gets an invoice for each car he or she buys.

More than one mechanic can service the same vehicle if needed. The service\_ticket table will include the car\_id. The car\_id can be used to identify which mechanic(s) serviced what vehicle. A car brought in for service can be worked on by many mechanics and each mechanic may work on many cars

After a vehicle is serviced a service ticket must be created including information about the service, whether additional parts were needed, customer information (who the service ticket applies to), car\_id to identify which vehicles were serviced. When a customer takes one or more cars in for service or repair. One service ticket is written for each car.

The car dealership maintains a service history for each of the cars serviced. The service records are referenced by the car's serial number.

A car that is serviced may or may not need parts (e.g., adjusting a carburetor or cleaning a fuel injector nozzle does not require providing new parts).