

Welcome to The Dealership!  
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ServiceCar represents the table of all vehicles that are serviced by the service center. This includes cars that are brought in for service where were not sold by the dealership. A car is associated with a single customer, but a customer can have zero, one, or many cars that are serviced at the dealership.

Each ServiceTicket represents a service visit for a car in the ServiceCar table. Service tickets aquire labor from various mechanics, various services, and various parts, and then can be printed and given to the customer for payment.

Service history is acheived by querying the ServiceTicket table and joining it on the service\_car\_id, which will generate a list of all of the services rendered to that vehicle

On the vehicle sales side of the house, a customer, a car, or a sales person all have a zero to one or zero to many relationship to invoices.

Each record in the invoice table represents a discrete sale of a single vehicle to a single customer by a single salesman. A customer or salesperson can be involved in several sales for several vehicles, but a car can only be associated with one invoice

Service		
PK	service_id	SERIAL
FK	service_ticket_id	INTEGER NOT NULL
	service_name	VARCHAR(20)
	price	NUMERIC(6,2)

Part		
PK	part_id	SERIAL
FK	service_ticket_id	INTEGER NOT NULL
	part_name	VARCHAR(20)
	price	NUMERIC(6,2)

ServiceCar		
PK	service_car_id	SERIAL
FK	customer_id	INTEGER NOT NULL
	serial_number	VARCHAR(17)
	make	VARCHAR(20)
	model	VARCHAR(20)
	color	VARCHAR(20)
	trim	VARCHAR(20)

ServiceTicket		
PK	service_ticket_ID	SERIAL
FK	service_car_id	INTEGER NOT NULL
	service_date	DATE

Labor		
PK	labor_id	SERIAL
FK	service_ticket_id	INTEGER NOT NULL
FK	mechanic_id	INTEGER NOT NULL
	hours_worked	NUMERIC(4,2)

Mechanic		
PK	mechanic_id	SERIAL
	mechanic_first_name	VARCHAR(50)
	mechanic_last_name	VARHCHAR(50)
	hourly_rate	NUMERIC(5,2)

Customer		
PK	customer_id	SERIAL
	customer_first_name	VARHCHAR(50)
	customer_last_name	VARHCHAR(50)
	customer_address	VARCHAR(100)
	customer_email	VARCHAR(50)
	customer_phone	VARCHAR(15)

SalesCar		
PK	car_id	SERIAL
	serial_number	VARCHAR(17)
	make	VARCHAR(20)
	model	VARCHAR(20)
	color	VARCHAR(20)
	trim	VARCHAR(20)
	price	NUMERIC(8,2)

Salesperson		
PK	salesperson_id	SERIAL
	sp_first_name	VARHCHAR(50)
	sp_last_name	VARCHAR(50)
	sp_email	VARHCHAR(50)
	sp_phone	VARCHAR(15)
	sp_commission	NUMERIC(7,2)

Invoice (sales only)		
PK	invoice_id	SERIAL
FK	customer_id	INTEGER NOT NULL
FK	car_id	INTEGER NOT NULL
FK	salesperson_id	INTEGER NOT NULL