Car Dealership Mock DB

Service

PK	service_id	SERIAL
FK	staff_id	INTEGER
	repair_description	VARCHAR
FK	part_id	NUMERIC(7,2)
FK	repair_id	NUMERIC(7,2)
FK	customer_id	INTEGER
FK	car_id	INTEGER
	service_date	TIMESTAMP

Customer

PK	customer_id	SERIAL
	first_name	VARCHAR(100)
	last_name	VARCHAR(100)
	address	VARCHAR(150)
	phone_number	VARCHAR(15)
	email_address	VARCHAR(50)

Part

PK	part_id	SERIAL
	part_desc	VARCHAR
	part_cost	NUMERIC(7,2)

Car

PK	car_id	SERIAL
	license_number	VARCHAR(8)
	VIN	VARCHAR(20)
	year	INTEGER
	make	VARCHAR(20)
	model	VARCHAR(30)
	color	VARCHAR(20)

Sale

PK	sale_id	SERIAL
FK	car_id	INTEGER
FK	staff_id	INTEGER
FK	customer_id	INTEGER
	sale_date	TIMESTAMP
	msrp	NUMERIC(10,2)

Shop

PK	repair_id	SERIAL
FK	staff_id	INTEGER
	labor_cost	NUMERIC(7,2)
	hours	INTEGER
FK	car_id	INTEGER

Inventory

PK	inventory_id	SERIAL
FK	car_id	INTEGER
	location	VARCHAR
FK	part_id	INTEGER

Invoice

PK	invoice_id	SERIAL
FK	service_id	INTEGER
FK	sale_id	INTEGER
	total_labor	NUMERIC(7,2)
	total_parts	NUMERIC(7,2)
	total_cost	NUMERIC(7,2)
FK	finance_id	INTEGER
	invoice_paid	BOOLEAN
FK	car_id	INTEGER
FK	customer_id	INTEGER

Staff

PK	staff_id	SERIAL
	position	VARCHAR(25)
	first_name	VARCHAR(100)
	last_name	VARCHAR(100)
	address	VARCHAR(150)
	phone_number	VARCHAR(15)
	email_address	VARCHAR(50)

Finance

PK	finance_id	SERIAL
FK	staff_id	INTEGER
FK	customer_id	INTEGER
	credit_score	INTEGER
	loan_amount	NUMERIC(7,2)
	bank_name	VARCHAR(100)
	routing_number	INTEGER

Service table relationships

Service tickets must have one and only one invoice,
Invoices can have zero to one service ticket.

Service tickets may have zero to many parts,
Parts can have zero to one service ticket.

Service tickets may have zero to many labor costs,
Repairs must have one and only one service ticket.

Service tickets must have one and only one customer_id,
Customers may have zero to many service tickets.

Service tickets must have one and only one staff_id,
Staff may have zero to many service tickets.

Service tickets must have one and only one car_id,
Staff may have zero to many service tickets.

Customer table relationships

Customers may have zero to one finance_id,
Finance records must have one and only one customer_id.

Customers may have zero to many sale_id,
Sales records must have one and only one customer_id.

Customers may have one to many invoice_id,
Invoices must have one and only one customer_id.

Part table relationships

Parts must have one and only one inventory_id,
Inventory may have zero to many parts.

Shop table relationships

Repairs may have one to many staff_id,
Staff may have zero to many repairs.

Repairs must have one and only one car_id,
Cars may have zero to many repairs.

Staff table relationships

Staff may have zero to many finance_ids,
Finance records must have one and only one staff_id

Staff may have zero to many sale_ids,
Sales records must have one and only one staff_id

Car table relationships

Cars may have zero to one inventory_id,
Inventory records may have zero to many car_id

Cars may have zero to one invoice_id,
Invoices may have zero to many car_id

Cars may have zero to one sale_id,
Sales records must have one and only one car_id

Finance table relationships

Finance records must have one and only one invoice,
Invoice may have zero to one finance records.

Sale table relationships

Sale records must have one and only one invoice,
Invoices may have zero to many sales records.