

Kar-kambas Used Cars ERD

David Parker | May 7, 2021

Service		
Primary Key	service_id	SERIAL
	date	DATE
Foreign Key (Mechanic)	mechanic_id	INTEGER NOT NULL
	description	VARCHAR(255)
Key	amount	NUMERIC(7,2)

Each invoice has 0 or many services. Each service has 1 and only 1 invoice

Customer		
Primary Key	customer_id	SERIAL
	first_name	VARCHAR(30)
	last_name	VARCHAR(50)
	address	VARCHAR(100)
	email	VARCHAR(50)
	phone_number	VARCHAR(15)

1 customer can have 0 or many invoices. Each invoice has 1 and only one customer

Invoice		
Primary Key	invoice_id	SERIAL
	date	TIMESTAMP
Foreign Key (Car)	VIN	VARCHAR(20)
	total_amount	NUMERIC(8,2)
Foreign Key (Part)	part_id	INTEGER
Foreign Key (Service)	service_id	INTEGER
Foreign Key (Salesperson)	salesperson_id	INTEGER
Foreign Key (Mechanic)	mechanic_id	INTEGER
Foreign Key (Customer)	customer_id	INTEGER NOT NULL

Each service has 1 and only 1 mechanic, each mechanic has 0 or many services

Vendor		
Primary Key	vendor_id	SERIAL
	vendor_name	Type
	phone_number	Type
	address	VARCHAR(100)

Each car has 1 and only 1 vendor, while each vendor can have 0 or many cars

Car		
Primary Key	VIN	VARCHAR(20) NOT NULL
Foreign Key (Vendor)	vendor_id	INTEGER NOT NULL
	model	VARCHAR(50)
	year	VARCHAR(4)
	color	VARCHAR(15)
	amount	NUMERIC(8,2)

Each car has 0 or 1 invoices, and each invoice has 0 or 1 cars

Each part has 1 and only 1 vendor, while each vendor can have 0 or many parts

Part		
Primary Key	part_id	SERIAL
	name	VARCHAR(50)
	description	VARCHAR(255)
	amount	NUMERIC(7,2)
Foreign Key (Vendor)	vendor_id	INTEGER NOT NULL
	SKU	VARCHAR(20)

Each part has 0 or 1 invoice. Each invoice has 0 or many parts

Each salesperson can have 0 or many invoices. Each invoice has 1 and only 1 salesperson

Salesperson		
Primary Key	salesperson_id	SERIAL
	first_name	VARCHAR(30)
	last_name	VARCHAR(50)

Each mechanic can have 0 or many invoices. Each invoice has 0 or 1 mechanic

Mechanic		
Primary Key	mechanic_id	SERIAL
	first_name	VARCHAR(30)
	last_name	VARCHAR(50)