

About this database

This data base contains the transactions for a car dealership. The dealership offers three products. Service, Part Sales and Auto Sales. The database consists of nine tables. The structure for querying starts at the customer level, to the register to the purchase etc. Items tracked in this data base are standard dealership items. Employee info, customer info, department info, etc. Each product the dealership offeres, has its own table for transactions.

The Tables

The Customer Table:
Stores first and last name, phone number, and address.
Primary Key - customer_id

The Register Table:
Stores subtotal and vin number.
Primary Key - invoice_id
Foreign Keys - customer_id references the customer table
sales_type_id references the sales table
employee_id references the employee table

The Sales Type Table:
Stores the different types of services offered. Stored as a table allows for easy product expansion. Table is used as a fork in the road for mutually exclusive services. (ex. a customer does not have to buy a car in order to get their car serviced.)
Primary Key - sale_type_id

The Service, Part and Auto Tables:
Each table is similar in data stored. Tables are independent as they are mutually exclusive from each other. Each table connects to the register and customer tables via the sales_type table. Their pipline connects to the employee tables and inventory tables.

The Employee Table:
Stores the employee information.
Primary Key - employee_id
Foreign Key - code_id (allowing a look up of employee department) references the employee_code table.

The Employee Code Table:
Stores the department the employees can work in.
Primary Key - code_id

The Inventory Table:
Stores the tangible products the dealership offers as well as the service items offered.
Primary Key - inventory_id

customer		
PK	customer_id	INTEGER
	firts_name	VARCHAR(50)
	last_name	VARCHAR(50)
	phone	CHAR(15)
	address	VARCHAR(150)

register		
PK	invoice_id	INTEGER
FK	customer_id	INTEGER
FK	sales_type_id	INTEGER
	sub-total	NUMERIC(10,2)
	total	NUMERIC(10,2)
	vin_number	VARCHAR(17)
FK	employee_id	INTEGER

sale_type		
PK	sale_type_id	INTEGER
	location	VARCHAR(50)

serice		
PK	service_id	INTEGER
	vin_number	VARCHAR(17)
FK	sale_type_id	INTEGER
FK	inventory_id	INTEGER
	service_type	INTEGER
	Field	Type

part		
PK	part_id	INTEGER
	part_name	VARCHAR(150)
FK	employee_id	INTEGER)
FK	inventory_id	INTEGER
FK	sale_type_id	INTEGER

auto		
PK	auto_id	INTEGER
	vin_number	VARCHAR(17)
FK	employee_id	INTEGER
FK	inventory_id	INTEGER
FK	sale_type_id	INTEGER

inventory		
PK	inventory_id	INTEGER
	name	VARCHAR(150)

employee		
PK	employee_id	INTEGER
FK	code_id	INTEGER

employee_code		
PK	code_id	VARCHAR(150)
	location	VARCHAR(50)