

Vehicle Records  
Database Design

Paul Banta  
MSSA CAD, ISTA 420  
May, 2020

User		
Field	Type	Constraints
id	int	not null primary key auto
password	string(40)	not null
email	string(40)	not null unique

Vehicle		
Field	Type	Constraints
id	int	not null primary key auto
year	int(4)	not null
make	string(20)	not null
model	string(20)	not null
color	string(10)	null
purchaseDate	date	null
purchasePrice	money	null
saleDate	date	null
salePrice	money	null
userId	int	not null foreign key(User)

Insurance		
Field	Type	Constraints
id	int	not null primary key auto
company	string(40)	not null
beginDate	date	not null
endDate	date	not null
totalCost	money	not null
vehicleId	int	not null foreign key(Vehicle)

MaintenanceRepair		
Field	Type	Constraints
id	int	not null primary key auto
date	date	not null
description	string(1000)	not null
mechanic	string(40)	not null
mechanicPhone	phone	null
odometer	int	null
totalCost	money	not null
type	choice	not null "Maintenance", "Repair"
warrantyMiles	int	null
warrantyMonths	int	null
vehicleId	int	not null foreign key(Vehicle)

Fillup		
Field	Type	Constraints
id	int	not null primary key auto
date	date	not null
gallons	number(n.3)	not null
odometer	int	not null
totalCost	money	not null
tripOdometer	number(n.1)	not null
vehicleId	int	not null foreign key(Vehicle)

Registration		
Field	Type	Constraints
id	int	not null primary key auto
date	date	not null
expires	date	not null
totalCost	money	not null
vehicleId	int	not null foreign key(Vehicle)

