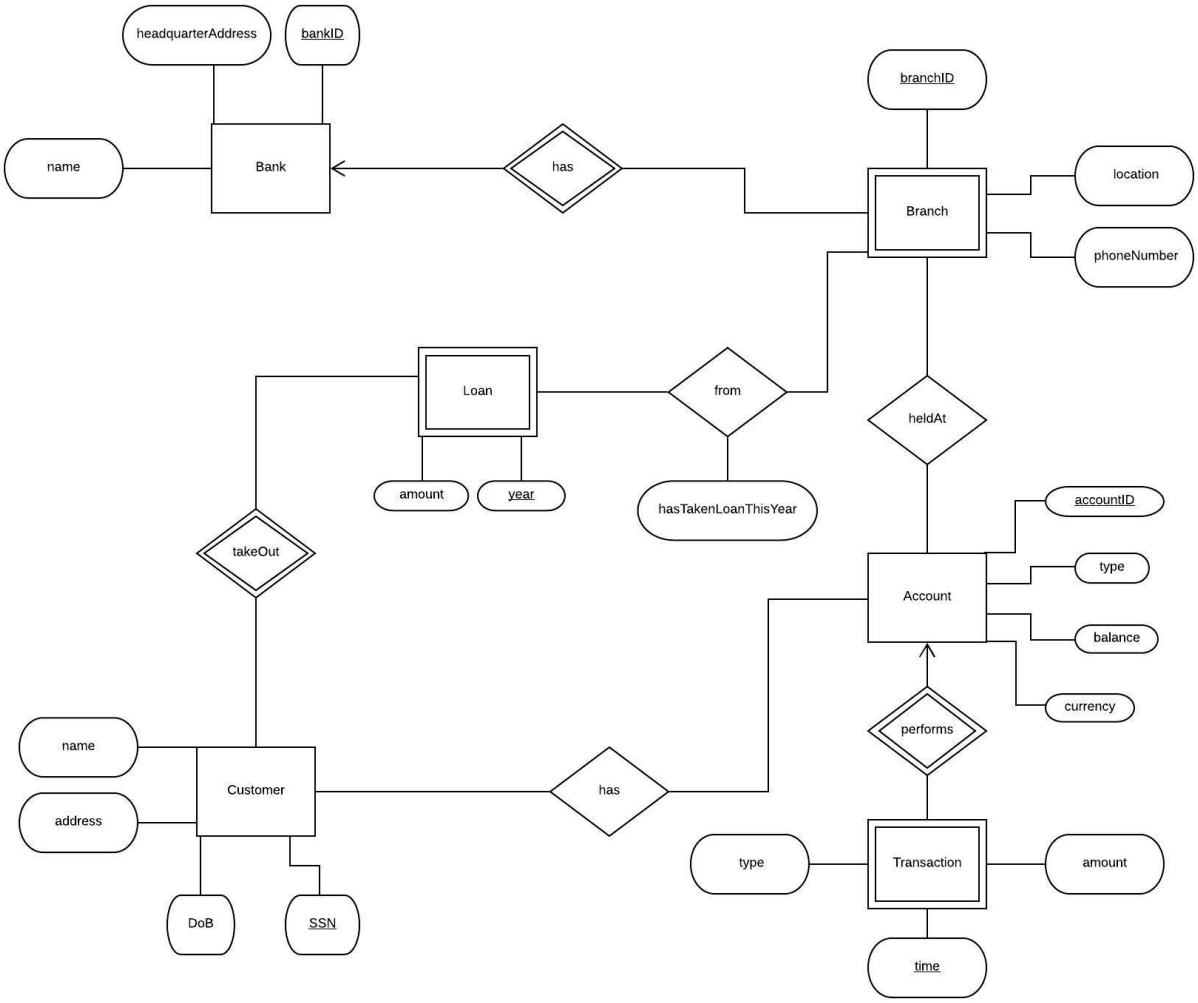
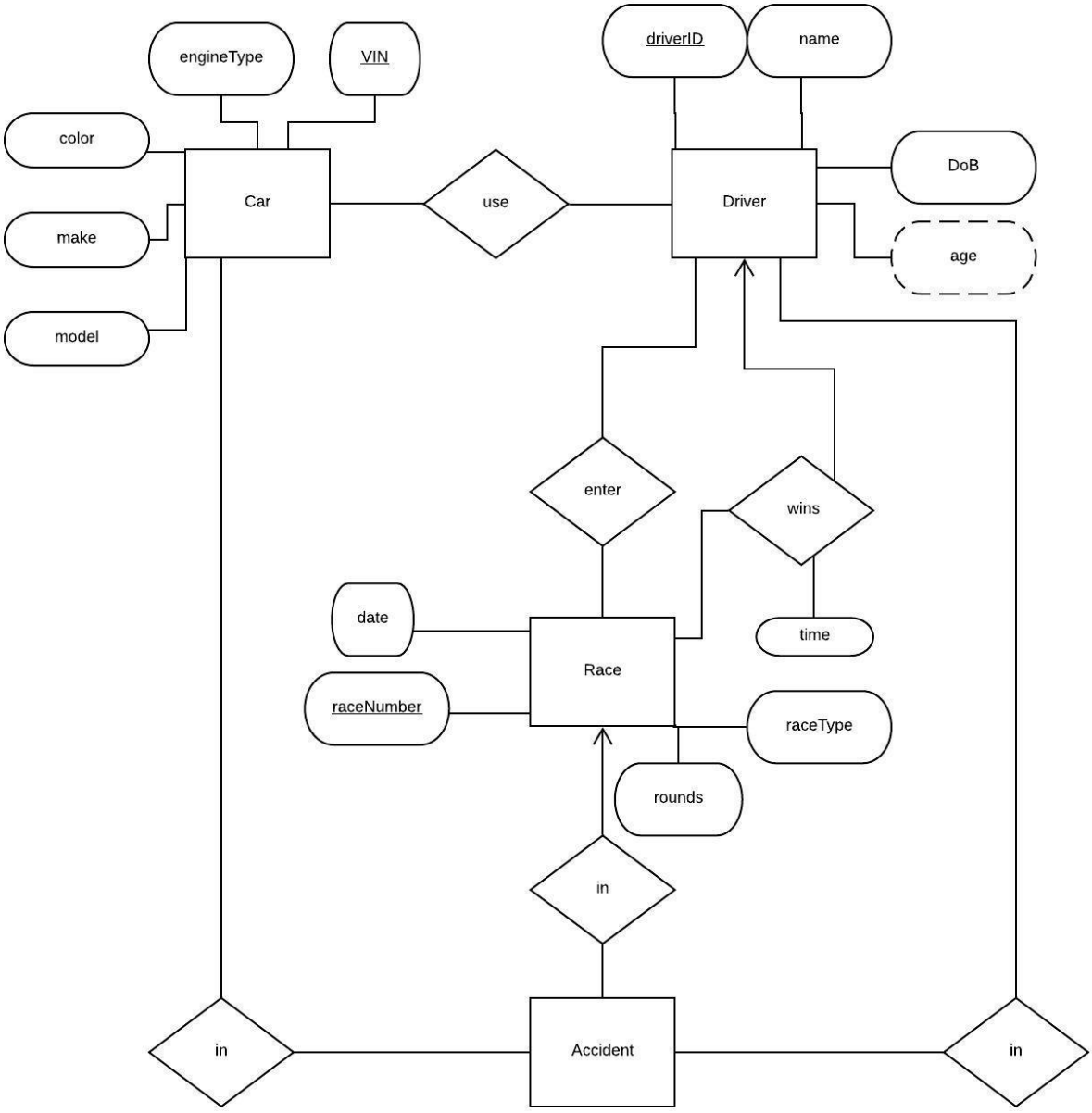
# CS3431 Homework 1

Przemek Gardias

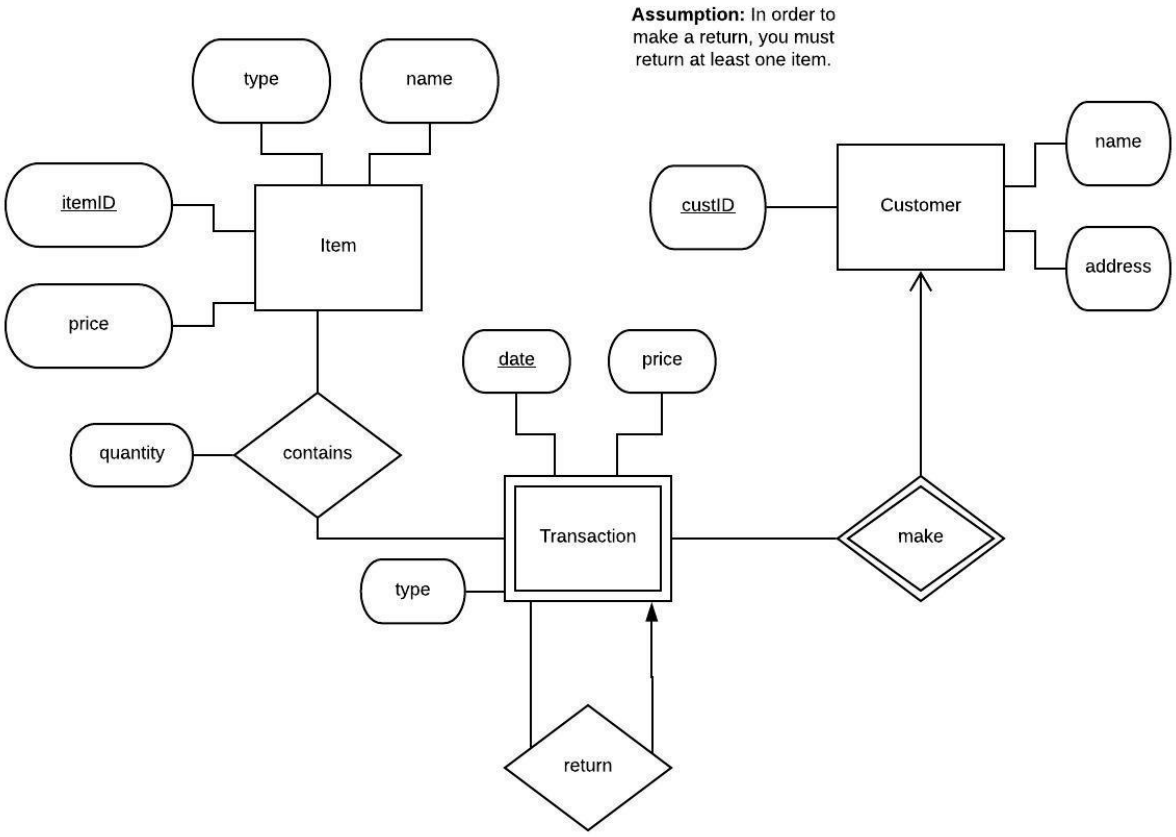
1.



2.


engineType
VIN
driverID
name
color
Car
use
Driver
DoB
make
age
model
enter
wins
date
Race
time
raceNumber
raceType
rounds
in
in
Accident
in

3.


Assumption: In order to make a return, you must return at least one item.
type
name
itemID
Item
price
quantity
contains
date
price
Transaction
type
return
custID
Customer
name
address
make

4. Relational model in SQL CREATE TABLE statements:

```
CREATE TABLE Students
                    (sid CHAR(20) Primary Key,
                    name Varchar(30) NOT NULL,
                    address Varchar(40) NOT NULL,
                    gender Varchar(6),
                    gpa REAL Default 0,
                    major Varchar(20) NOT NULL,
                    minor Varchar(20),
                    Constraint genderVal check (gender in ('Male', 'Female')));

CREATE TABLE Courses
                    (cid CHAR(20) Primary Key,
                    title Varchar(30),
                    numOfCredits INTEGER Default 1);

CREATE TABLE Enrolled
                    (sid CHAR(20) Foreign Key References Students (sid),
                    cid CHAR(20) Foreign Key References Courses (cid),
                    semester CHAR(3) Unique,
                    grade CHAR(2),
                    ON DELETE CASCADE
                    ON UPDATE NO ACTION);
```