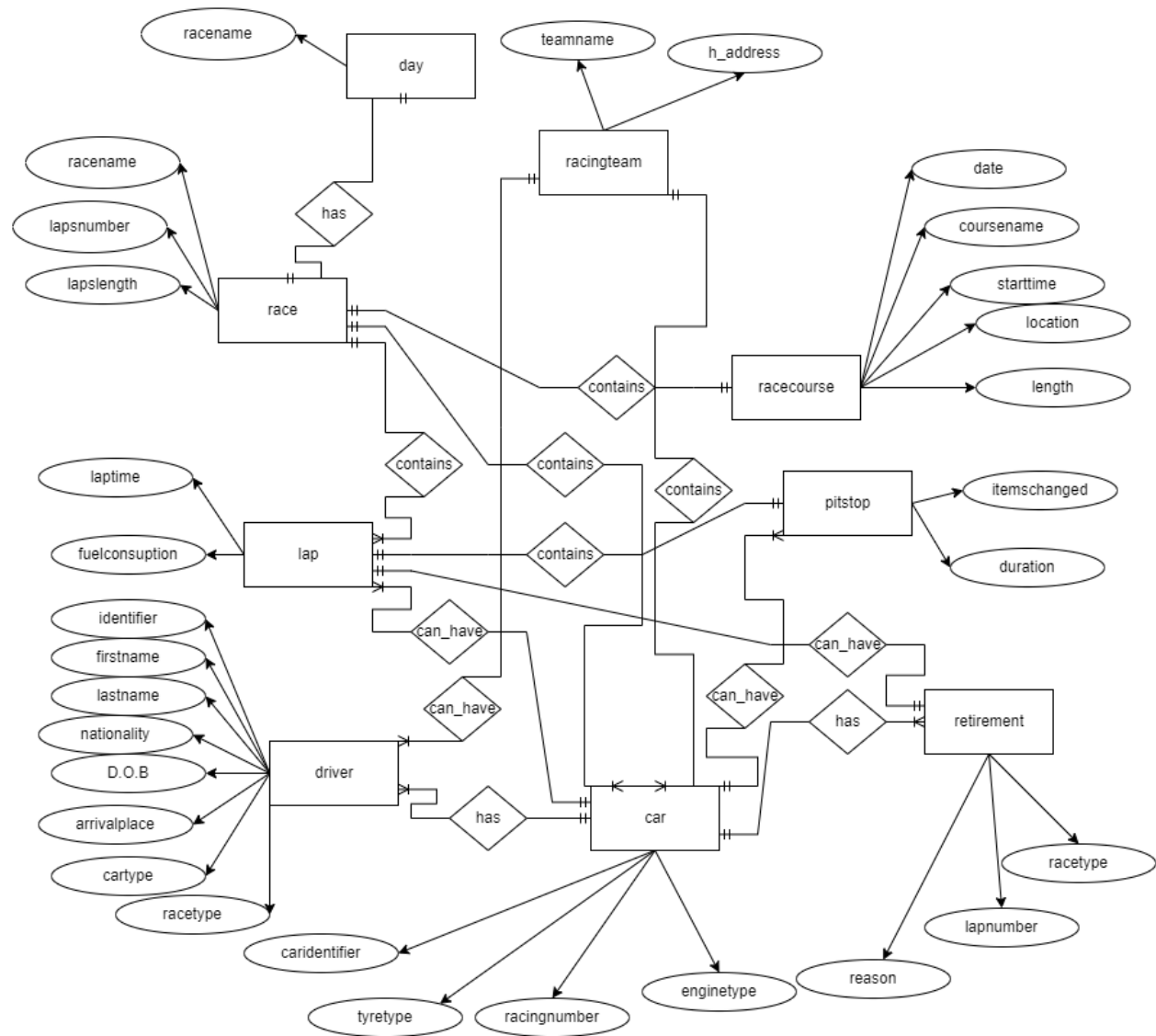# Entity Relationship Model

This model gives the whole view of different entities and their relationships from the racing table given. Relationships can be one-to-many, one-to-one, many-to-many or many-to-one. Each entity is a table in the racing database with different attributes. Some attributes are primary keys and are used to connect to other entities as secondary key

Relational Model

race
- ◇ lapsnumber INT
- ◇ length INT
- ⚷ racecourse_coursename VARCHAR(45)
- ⚷ day_day VARCHAR(45)
- 🔑 racename VARCHAR(45)
- Indexes ▶

day
- 🔑 day VARCHAR(45)
- Indexes ▶

lap
- ◇ laptime VARCHAR(45)
- ◇ fuelconcuption VARCHAR(45)
- 🔑 race_racename INT
- ⚷ race_racecourse_coursename VARCHAR(45)
- ⚷ car_caridentifier INT
- ⚷ car_racingteam_teamname VARCHAR(45)
- ⚷ car_race_racename INT
- ⚷ car_race_racecourse_coursename VARCHAR(45)
- ⚷ car_race_day_day VARCHAR(45)
- Indexes ▶

driver
- 🔑 identifier INT
- ◇ firstname VARCHAR(45)
- ◇ lastname VARCHAR(45)
- ◇ nationality VARCHAR(45)
- ◇ DOB DATE
- ◇ arrivalplace VARCHAR(45)
- ◇ cartype VARCHAR(45)
- ◇ racetype VARCHAR(45)
- ⚷ racingteam_teamname VARCHAR(45)
- ⚷ car_caridentifier INT
- Indexes ▶

racingteam
- 🔑 teamname VARCHAR(45)
- ◇ headquarteraddress VARCHAR(45)
- Indexes ▶

racecourse
- ◇ date DATE
- ◇ starttime VARCHAR(45)
- 🔑 coursename VARCHAR(45)
- ◇ location VARCHAR(45)
- ◇ length INT
- Indexes ▶

pitstop
- ◇ itemschanged VARCHAR(45)
- ◇ duration VARCHAR(45)
- ⚷ car_caridentifier INT
- ⚷ car_racingteam_teamname VARCHAR(45)
- ⚷ car_race_racename INT
- ⚷ car_race_racecourse_coursename VARCHAR(45)
- ⚷ car_race_day_day VARCHAR(45)
- ⚷ lap_race_racename INT
- ⚷ lap_race_racecourse_coursename VARCHAR(45)
- Indexes ▶

car
- 🔑 caridentifier INT
- ◇ tyrestype VARCHAR(45)
- ◇ racingnumber INT
- ◇ enginetype VARCHAR(45)
- ⚷ racingteam_teamname VARCHAR(45)
- ⚷ race_racename INT
- ⚷ race_racecourse_coursename VARCHAR(45)
- ⚷ race_day_day VARCHAR(45)
- Indexes ▶

retirement
- ◇ lapnumber INT
- ◇ reason VARCHAR(45)
- ◇ racetype VARCHAR(45)
- ⚷ lap_race_racename INT
- ⚷ lap_race_racecourse_coursename VARCHAR(45)
- ⚷ lap_car_caridentifier INT
- ⚷ lap_car_racingteam_teamname VARCHAR(45)
- ⚷ lap_car_race_racename INT
- ⚷ lap_car_race_racecourse_coursename VARCHAR(45)
- ⚷ lap_car_race_day_day VARCHAR(45)
- ⚷ car_caridentifier INT
- ⚷ car_racingteam_teamname VARCHAR(45)
- ⚷ car_race_racename INT
- ⚷ car_race_racecourse_coursename VARCHAR(45)
- ⚷ car_race_day_day VARCHAR(45)
- Indexes ▶