**Business Scenario:**

Mclaren f1 racing team is one of the top teams at the pinnacle of motorsport. In doing so they keep track over an ever increasing amount of data. Each race weekend they require to know the laps both cars have done in practice by each driver, daniel riccciardo and Lando norris. As well as the tyre compound used. They also want to keep track of the stats from the race such as, fastest lap done by both drivers and amount of overtakes. Its more than just stats though too because they are also dealing with parts and need to keep track of spare parts such as tyres, front/rear wings.

Formula 1 isnt a stationary one race track either so Mclaren needs to keep track of at what race these stats and data comes from.

**Possible Entities:**

**drivers** - all info about drivers, name, number, id, country of representation, age. Multiple drivers info needed for multiple tables M:M

**Practice** - practice statistics such as, num of laps, how long each tyre last, fastest lap, and for which driver this info is for. Multiple practice sessions for each driver making it M:M

**Race** - race stats, where each driver started on the grid, how many overtakes, fastest lap, what driver stats are linked to, finishing position. One race for both drivers 1:M

**Cars** - what driver the car belongs to,number associated with it, number and make of car(MCL36) amount of tyres allocated. different car for each driver M:M

**Parts** - Spare parts brought for the weekend, Front wing, spare wheel nuts, tyres, rear wing and drs mounts and mechanics, spare gearbox and engine parts (mguh, mguk, electronics, etc.) 1 set of spare parts for both cars. 1:M

**Location** - where the race is that weekend and info about it, How many laps it is, City, country, name of race, type of track (power, highdownforce, street), possible car setups. Info is used for multiple things 1:M

***Note*** *– other entities exist such as addresses, parts inventories, services employee skills, etc. Consider these… make sample data in a spreadsheet, think it through, normalize.*