University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: 7/16/2023

Group Number: 2

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Proposal

Project Description

The goal of the project is to create a database that contains historical information pertaining to **Formula 1** such as:

- Drivers, team principal, and points scored by different teams every year
- Fastest lap times at various circuits
- Seasonal race results

The database is going to model:

- Drivers, team principal, sponsors, and car model as entities related to a team
- Points scored by drivers and teams every year
- Engine manufacturer for different model cars (different cars from different teams sometimes share the same engine)
- Unique team entities differentiated by year
- The relationship between drivers and lap records on different circuits
- Race results every year

Database Specifications

Benefits of the database:

- Overview of historical team data
- Compare and review past driver, car, and team performance
- View fastest lap records at all F1 circuits

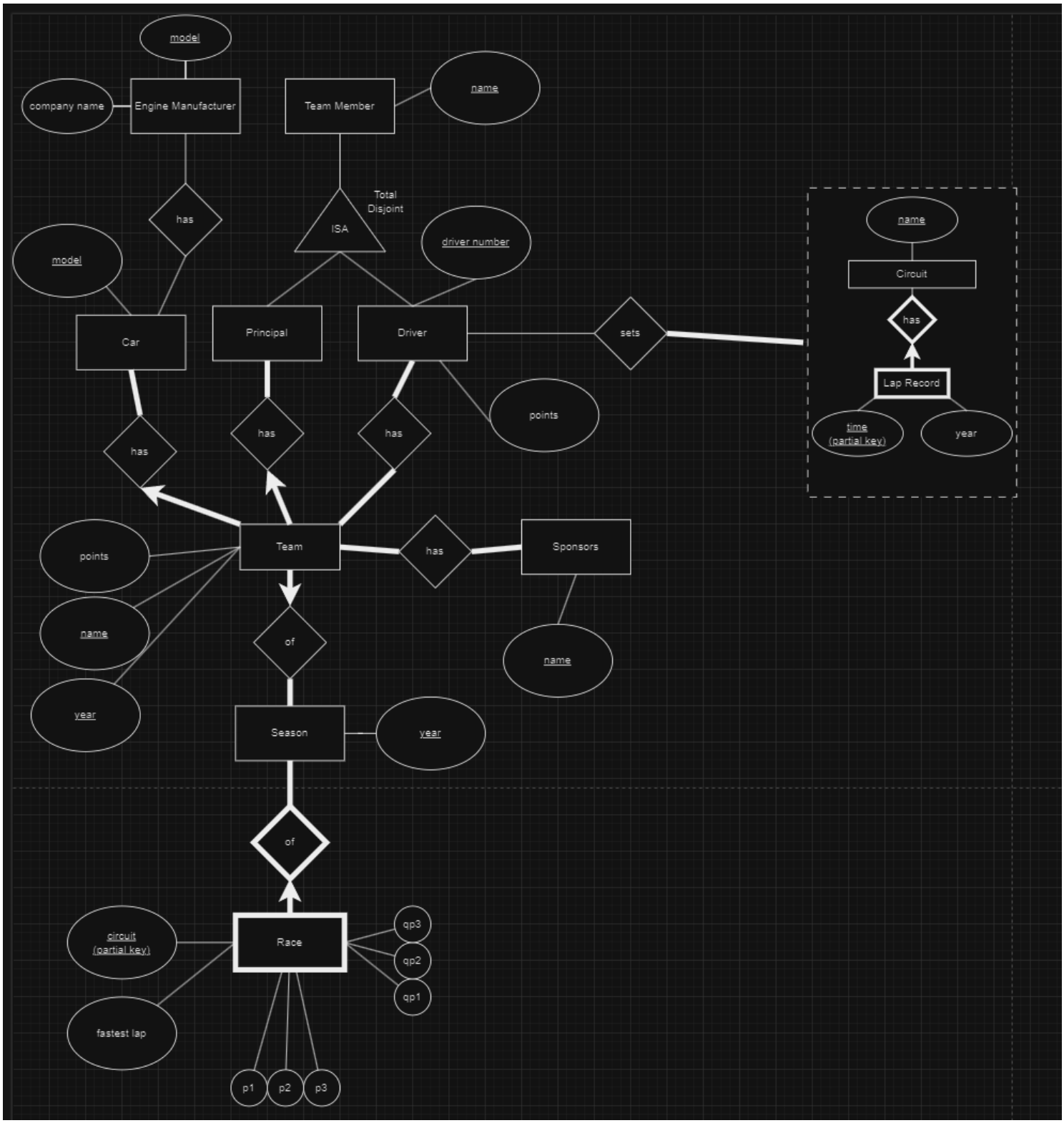
Functionality:

- Look up team members, sponsors, car model, and team performance by year and team
- Look up most recent lap records of different Formula 1 circuits
- Look up race results by year and circuit

Description of Application Platform

We will use PHP/MySQL for backend and HTML/CSS for frontend.

ER Diagram


model
company name
Engine Manufacturer
Team Member
name
has
Total
Disjoint
ISA
model
driver number
Car
Principal
Driver
sets
name
Circuit
has
Lap Record
time
(partial key)
year
points
has
has
has
points
Team
has
Sponsors
name
of
name
year
Season
year
of
circuit
(partial key)
Race
qp3
qp2
qp1
fastest lap
p1
p2
p3