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# The Formula 1 Database

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# **1. Choice of DBMS**

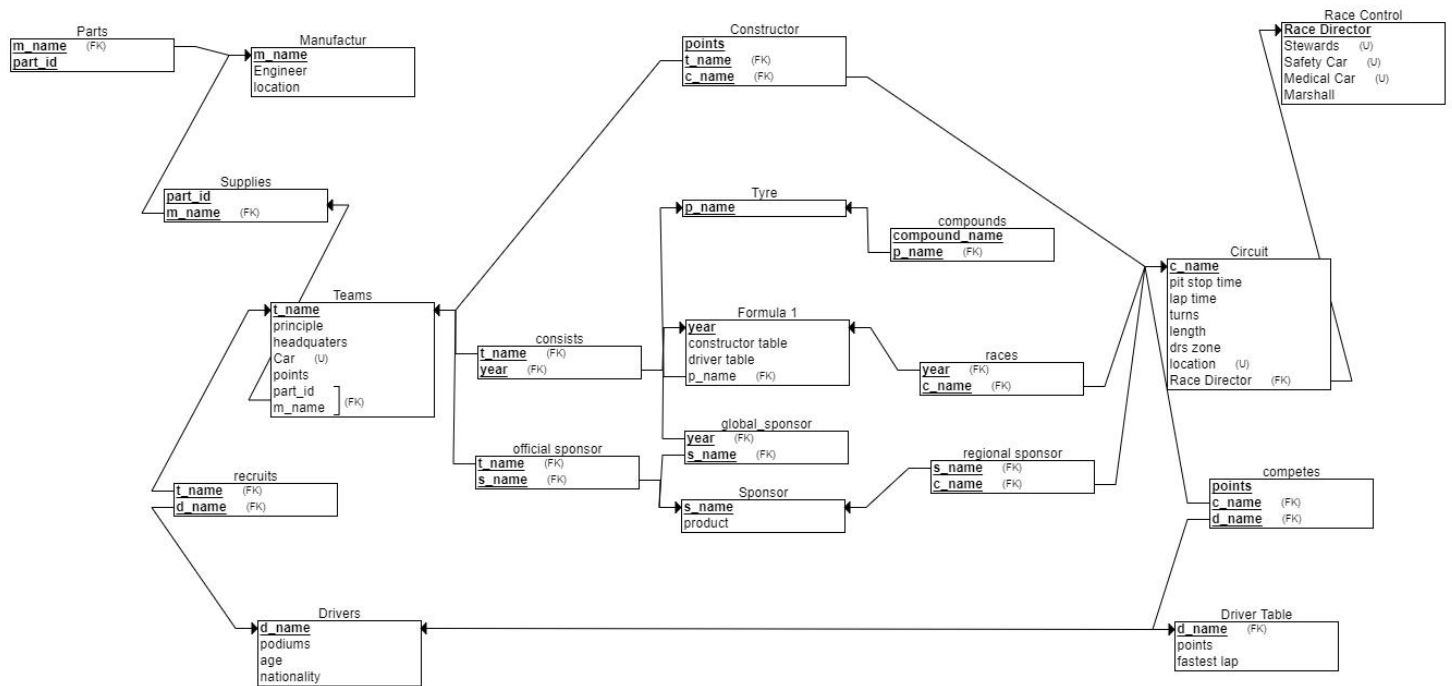
We have chosen PostgreSQL as our choice of DBMS. PostgreSQL is a Relational based Database Management System i.e RDBMS.

A relational database stores data in the form of multiple tables. The database structure works by arranging every table into rows (known as records or tuples) and columns (known as fields or attributes). Tables, columns, and rows are the three major components of a relational database.

The Reason we chose RDBMS as our database was because we have about 20 entities and RDBMS provides ease of use in creation and maintenance of such a huge database while still maintaining constraints of the database. On the technical side of things , It is easier to add new data or modify existing tables in an RDBMS while maintaining data consistency with the existing format. This is mainly because an RDBMS is ACID-compliant. Relational databases are considered low-maintenance because users can quickly test, regulate, fix and back up data as the automation tool in RDBMS help systematizes these tasks.

These are the main reasons we chose RDBMS for our project and one of the best implementations of RDBMS is the PostgreSQL , thereby justifying our choice.

# **2. Relational Data Model**



### **3. Database Description**

We have two files `f1_create.sql` and `f1_insert.sql`. The `f1_create.sql` file consists of create table statements for about 20 tables and the `f1_insert.sql` consists of insert queries of about 8-10 per table.

### **4. Work Division**

The Mapping of ER diagram to Relational diagram was completed by all of us sitting together and discussing.

The Create statements were done by Royston and Rohan. The Insert queries were done by Rohan and Rahul.