**Fact Table: Race Performance**

The fact table, "Race Performance", will store measurable, quantitative data from each race. It will contain keys to the dimension tables and metrics like lap times, positions, points, and more.

**Columns:**

* RacePerformanceId (Primary Key)(String)
* RaceId (Foreign Key) (String)
* DriverId (Foreign Key) (String)
* TeamId (Foreign Key) (String)
* VenueId (Foreign Key) (String)
* SeasonId (Foreign Key) (String)
* FastestLap (String)
* FastestLapTime (String)
* FastestLapSpeed (Float)
* TotalLaps (Integer)
* FinalPosition (Integer)
* GridPosition (Integer)
* IndividualPoints (Integer)
* PitstopCount (Integer)
* TotalRaceTime (String)
* Status (String)

**Dimension Tables:**

**Driver Dimension:** Stores details about each driver.

* + DriverId (Primary Key) (String)
  + DriverName (String)
  + Gender (String)
  + Nationality (String)
  + CountryCode (String)

**Team Dimension:** Information about each team.

* + TeamId (Primary Key) (String)
  + TeamName (String)
  + Nationality (String)
  + CountryCode (String)

**Race Event Dimension:** Details of each race event.

* 1. RaceId (Primary Key) (String)
  + Description (String)
  + ScheduledStart (TimeStamp)
  + ScheduledEnd (TimeStamp)
  + Status (Finished, Not Started, etc.) (String)
  + AirTemp (Integer)
  + TrackTemp (Integer)
  + Humidity (Integer)
  + Weather (String)

**Venue Dimension:** Information about race venues.

* + VenueId (Primary Key) (String)
  + Name (String)
  + City (String)
  1. Country (String)
  + CountryCode (String)
  + Length (FLOAT)
  + CurvesLeft (Integer)
  + CurvesRight (Integer)
  + Coordinates (String)
  + Laps (Integer)
* **Season Dimension:** Season-related details.
  + SeasonId (Primary Key) (String)
  1. Description (String)
  + StartDate (TimeStamp)
  + EndDate (TimeStamp)

**In the model all the dimension tables will get connected to the fact table**