# NFL Team Spread & Performance Data Preparation

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# Problem Proposal

What attributes impact spread predictions, and performances of teams in the NFL?

# Initial Dataset

# Kaggle

3 main entities

### NFL Teams

• Team Name, conference, division

### **NFL Stadiums**

Stadium name, location, type, elevation, surface

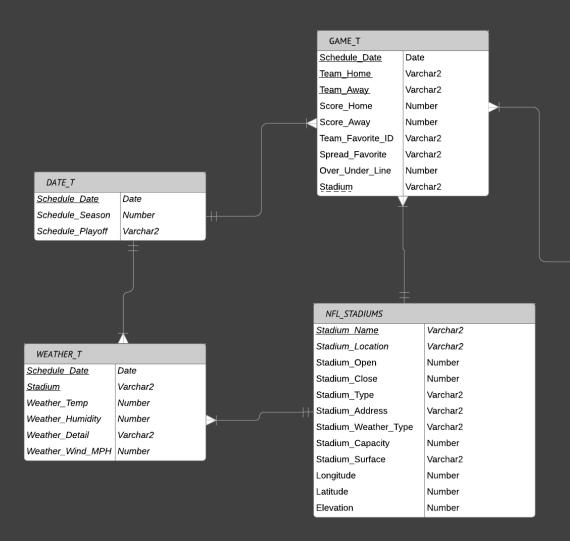
## Spreadspoke Gambling Data

Date of Game, home/away team, score, spread, weather

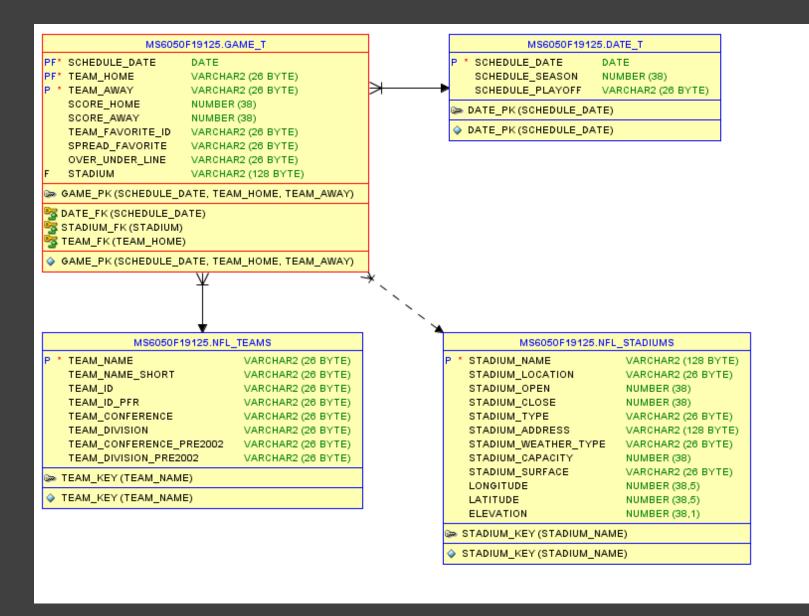
Through normalization, split into 5 main entities

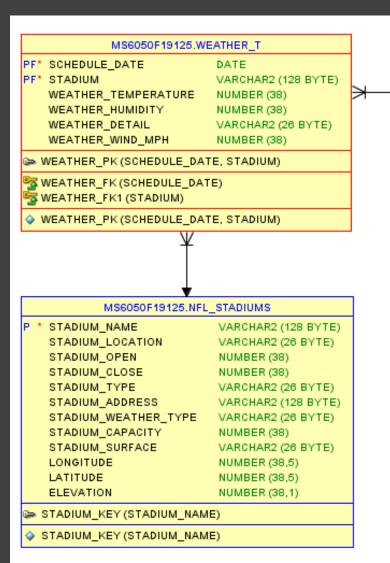
### **Football Data Mgmt ER Diagram**

Elliott Newman | December 1, 2019



NFL_TEAMS	
<u>Team Name</u>	Varchar2
Team_Name_Short	Varchar2
Team_ID	Varchar2
Team_ID_Prf	Varchar2
Team_Conference	Varchar2
Team_Division	Varhcar2
Team_Conference_Pre2002	Varchar2
Team_Division_Pre2002	Varchar2





MS6050F19125.DATE\_T

P \* SCHEDULE\_DATE DATE
SCHEDULE\_SEASON NUMBER (38)
SCHEDULE\_PLAYOFF VARCHAR2 (26 BYTE)

DATE\_PK (SCHEDULE\_DATE)

DATE\_PK (SCHEDULE\_DATE)

# Data Preparation

Removed invalid data

Removed unnecessary attributes

Updated any incorrect measurements to correct measurements

Created new attributes using SQL 'CASE' statements