

# NFL Team Spread & Performance Data Preparation

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# Problem Proposal

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

# Understanding Spreads

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EAGLES	11/2	** PRO
STEELERS	13/2	SUNDAY
VIKINGS	8/1	453 STEEL
FALCONS	10/1	454 BROW
PACKERS	10/1	455 49ER
RAMS	12/1	456 VIK
SAINTS	16/1	457 BE
JAGUARS	20/1	458 CO
COWBOYS	40/1	459 B
49ERS	50/1	461
RAIDERS	50/1	462
PANTHERS	50/1	46



**< A E S A R S >**  
ATLANTIC CITY

# Initial Dataset

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Kaggle

3 main entities

NFL Teams

- Team Name, conference, division

NFL Stadiums

- Stadium name, location, type, elevation, surface

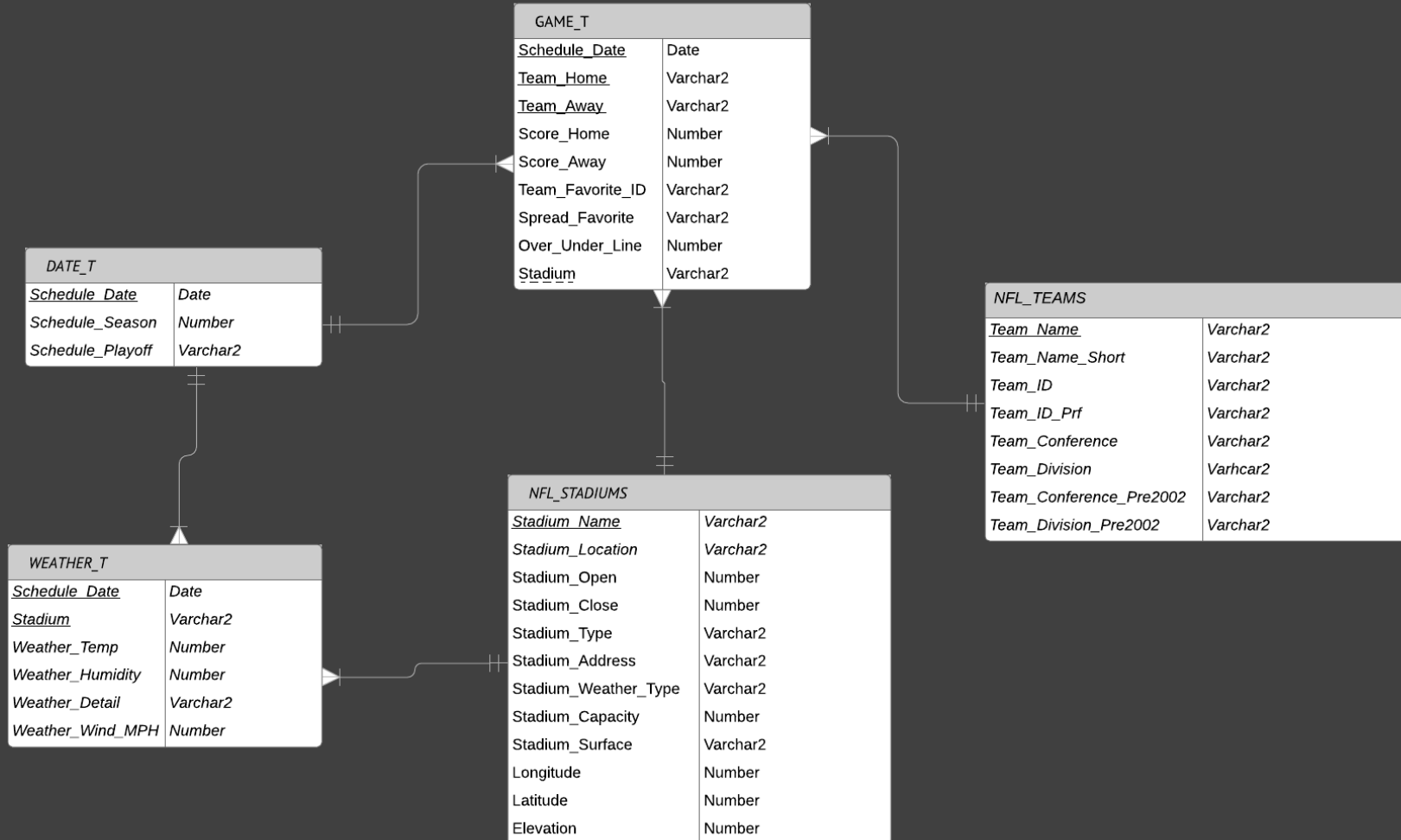
Spreadspoke Gambling Data

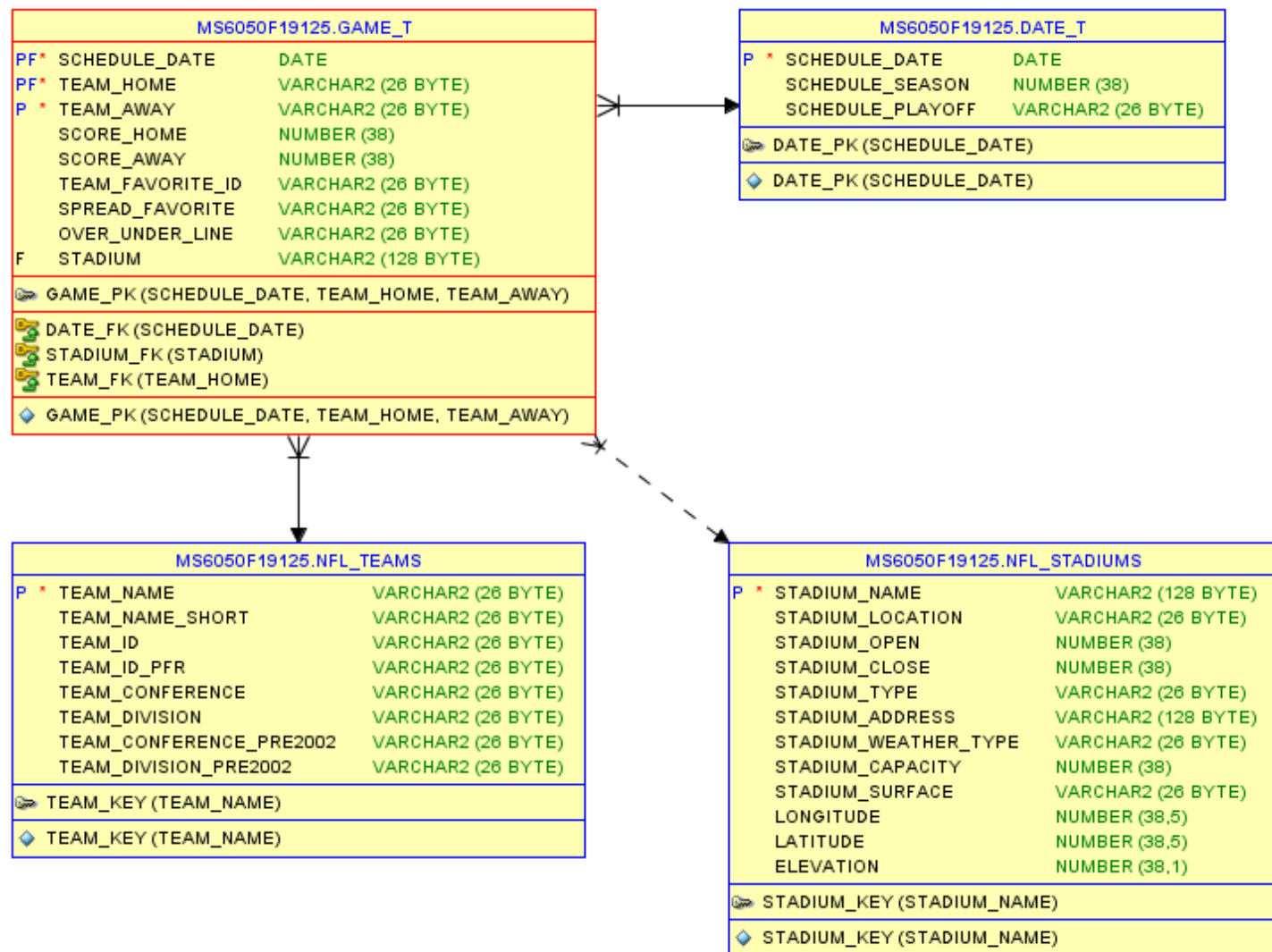
- Date of Game, home/away team, score, spread, weather

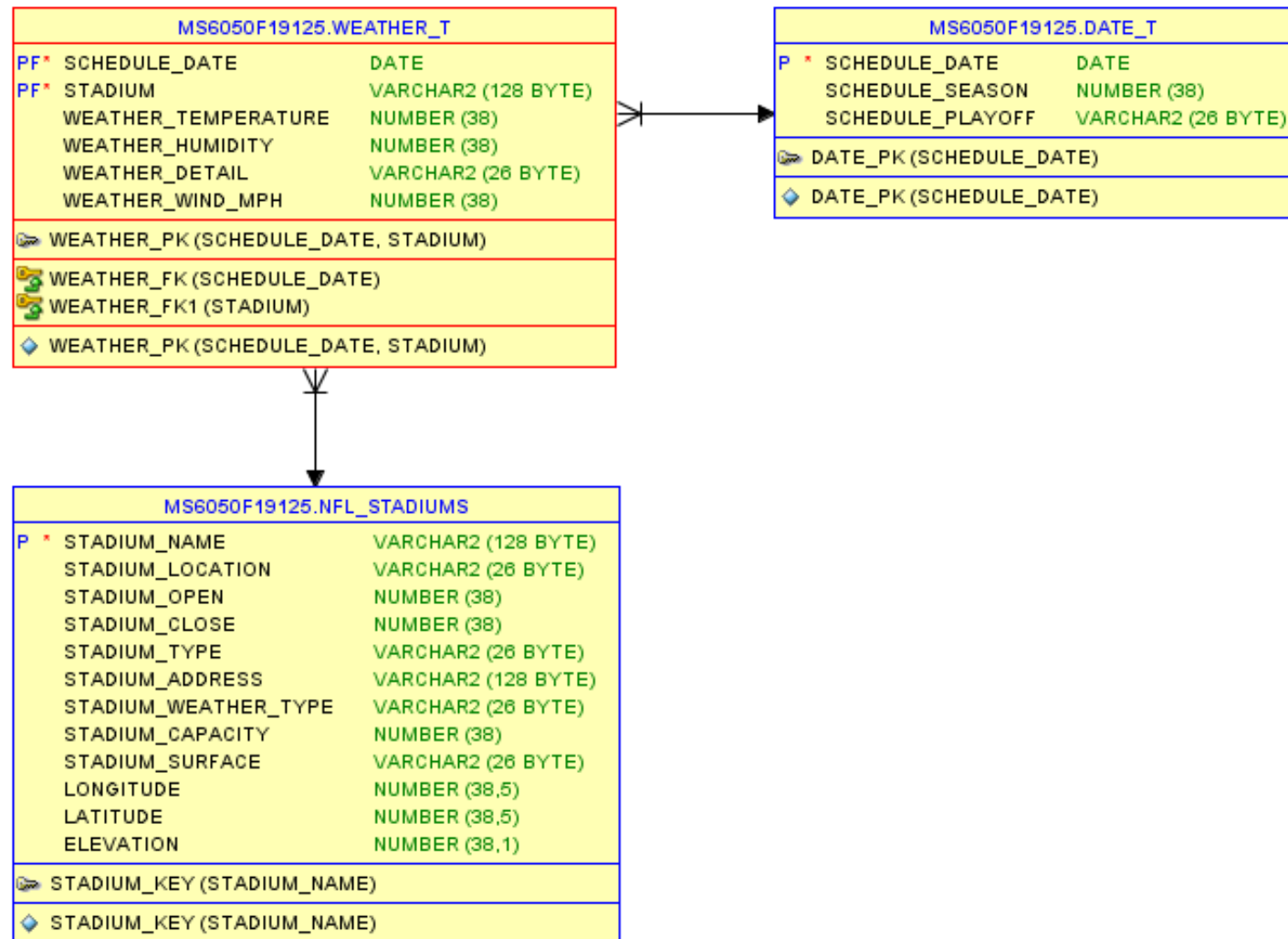
Through normalization, split into 5 main entities

## Football Data Mgmt ER Diagram

Elliott Newman | December 1, 2019







# Data Preparation

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Removed invalid data

Removed unnecessary attributes

Updated any incorrect measurements to correct measurements

Created new attributes using SQL 'CASE' statements