

Project and Database Outlines:

Players - records for the details of players for a team.

- player_id: int, auto_increment, unique, not NULL, PK - a unique identifier for each player
- fname: varchar, not NULL,
- lname: varchar, not NULL,
- team_id: int, FK
- primary_position: varchar, not NULL
- Relationship: a M:1 relationship between Players and Teams implemented with team_id as a FK.

Teams - records of teams

- team_id: int, auto_increment, unique, not NULL, PK - a unique identifier for each team
- team_city: varchar, not NULL
- team_name: varchar, not NULL
- conference: varchar, not NULL
- Relationship: 1:M relationship between Teams and Players implemented with team_id as a FK in Players.
- Relationship: M:1 relationship between Teams and Games implemented with team_id as two FKs in Games
- Relationship: M:1 relationship between Teams and Seasons implemented with team_id as two FKs in Seasons

Games - records of games

- game_id: int, auto_increment, unique, not NULL, PK - a unique identifier for each team
- home_team_id: int, not NULL, FK - team_id from Teams
- away_team_id: int, not NULL, FK - team_id from Teams
- home_score: int, not NULL
- away_score: int, not NULL
- date (Year, Month, Day): DATE, not NULL
- season_year: int, not NULL, FK - season_year from Seasons
- Relationship: M:M relationship with Players, implemented via the intersection table Players_Games_Stats with game_id as FK.
- Relationship: M:1 relationship with Seasons implemented with season_year as FK.

Players_Games_Stats - intersection table facilitating M:M relationship between Players and Games

- player_stats_id int, auto_increment, unique, not NULL PK
- player_id: int, not NULL, FK - player_id from Players
- game_id: int, not NULL, FK - game_id from Games
- passing_yard_total: int
- passing_td_total: int
- rushing_yard_total: int
- rushing_td_total: int

Billy Fifield

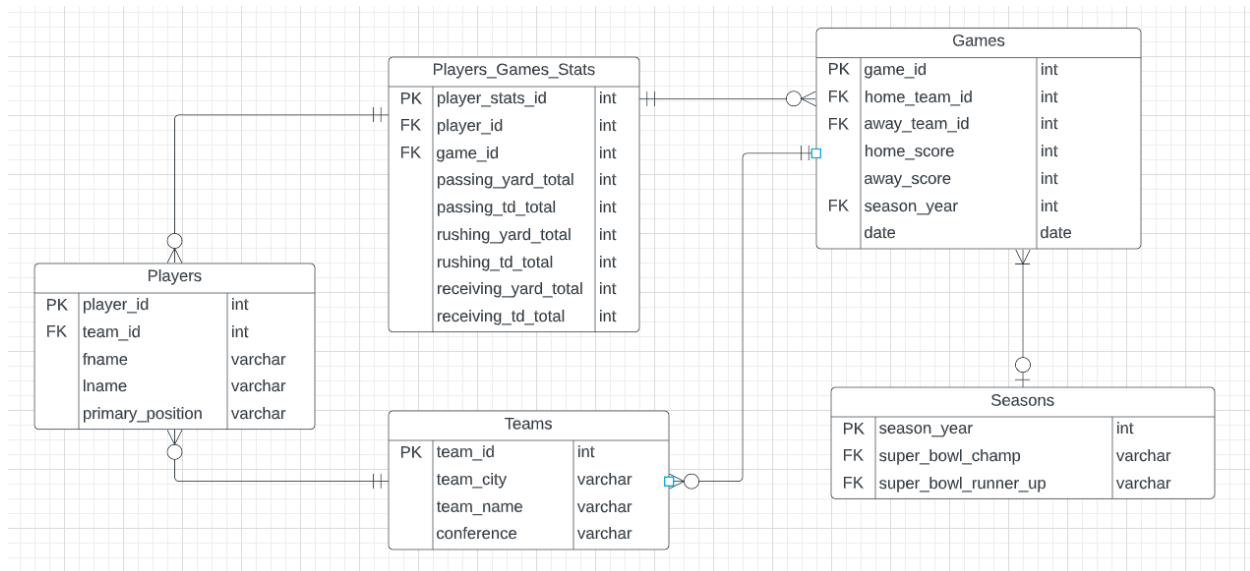
Kyle Westover

- receiving_yard_total: int
- receiving_td_total: int
- Relationship: M:1 relationship with Players_Games_Stats and Games implemented with game_id as FK.
- Relationship: M:1 relationship with Players_Games_Stats and Players implemented with player_id as FK.

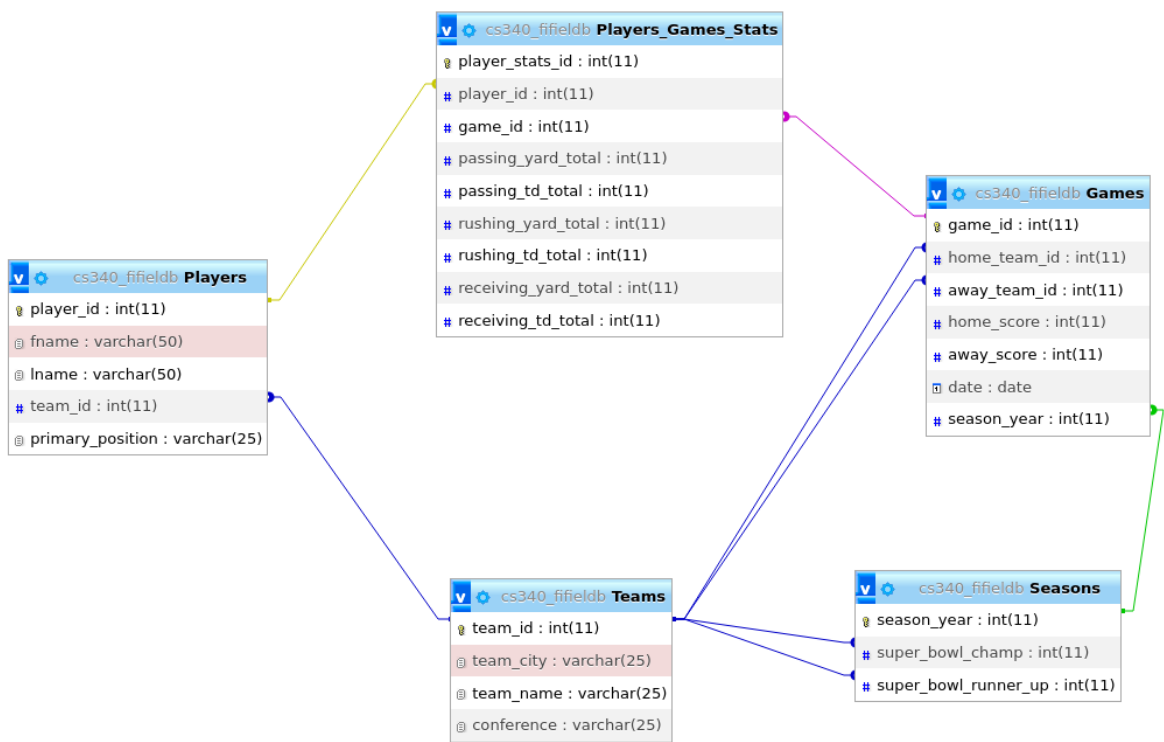
Seasons - record of seasons

- season_year: int, not NULL, PK - a unique identifier for the season
- super_bowl_champ: int, FK - team_id from Teams, not NULL
- super_bowl_runner_up: int, FK - team_id from Teams, not NULL
- Relationship: 1:M relationship with Games implemented with season_year as a FK in Games.
- Relationship: 1:M relationship with Teams implemented with team_id as two FKs in Seasons.

ER Diagram:



Schema:



UI Screenshots:

Home Page:

Pro Football Database

HOME TEAMS PLAYERS GAMES PLAYER GAME STATS SEASONS

Pro Football Database is a database that allows the user to record teams, team rosters, games, player game stats and the Super Bowl champion and runner up for each season.

Pro Football Database | Group 45 | Billy Fifield & Kyle Westover

BROWSE Teams/ADD NEW Team Page:

Teams

Add Team

Team City: Team Name: Conference:

Add Team

team_id	team_city	team_name	conference		
1	Denver	Broncos	AFC	Edit	Delete
4	Detroit	Lions	NFC	Edit	Delete
5	Philadelphia	Eagles	NFC	Edit	Delete
3	Pittsburgh	Steelers	AFC	Edit	Delete
2	Tennessee	Titans	AFC	Edit	Delete

EDIT Team Page:

Editing Team:

team_id	team_city	team_name	conference
1	Denver	Broncos	AFC

Edit Team

Team City:

Denver

 Team Name:

Broncos

 Conference:

AFC

Edit Team

Cancel

BROWSE Players/ADD NEW Player Page:

Players

Add Player

Player First Name: Player Last Name: Primary Position: Team:

Add Player

player_id	fname	lname	primary_position	team_name		
2	Najee	Harris	RB	Steelers	Edit	Delete
3	Derrick	Henry	RB	Titans	Edit	Delete
4	Devonta	Smith	WR	Eagles	Edit	Delete
1	Russell	Wilson	QB	Broncos	Edit	Delete

EDIT Player Page:

Editing Player:

player_id	fname	lname	primary_position	team_name
2	Najee	Harris	RB	Steelers

Edit Player

Player First Name:

Najee

 Player Last Name:

Harris

 Primary Position:

RB

 Team:

Steelers

Edit Player

Cancel

BROWSE Games/ADD NEW Game Page (with search by Season):

Pro Football Database

HOME TEAMS PLAYERS GAMES PLAYER GAME STATS SEASONS

Games

Search Games by Season:

Search Season

Add Game

Home Team: Away Team: Home Score: Away Score: Date:

mm/dd/yyyy

 Season:

Add Game

game_id	home_team_id	away_team_id	home_score	away_score	date	season_year		
2	Lions	Titans	35	10	2023-02-06	2023	<a>Edit	<a>Delete
3	Titans	Steelers	2	53	2022-10-15	2022	<a>Edit	<a>Delete
1	Broncos	Titans	24	10	2015-02-05	2015	<a>Edit	<a>Delete

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EDIT Game Page:

Editing Game:

game_id	home_team_id	away_team_id	home_score	away_score	date	season_year
2	Lions	Titans	35	10	2023-02-06	2023

Edit Game

Home Team:

Lions

 Away Team:

Titans

 Home Score:

35

 Away Score:

10

 Date:

02/06/2023

 Season:

2023

Edit Game

Cancel

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BROWSE Player Game Stats/ADD NEW Player Game Stats Page:

Player Game Stats

Add Player Game Stats

Player: Game: Passing Yards:

0

 Passing TDs:

0

 Rushing Yards:

0

 Rushing TDs:

0

 Receiving Yards:

0

 Receiving TDs:

0

Add Player Game Stats

player_stats_id	name	game_id	passing_yard_total	passing_td_total	rushing_yard_total	rushing_td_total	receiving_yard_total	receiving_td_total		
1	Russell Wilson	1	350	4	50	1	0	0	<a>Edit	<a>Delete
2	Derrick Henry	1	0	0	275	3	25	1	<a>Edit	<a>Delete
3	Najee Harris	3	10	1	150	2	50	1	<a>Edit	<a>Delete

EDIT Player Game Stats Page:

Editing Player Game:

player_stats_id	player_id	game_id	passing_yard_total	passing_td_total	rushing_yard_total	rushing_td_total	receiving_yard_total	receiving_td_total
2	3	1	0	0	275	3	25	1

Edit Player Game

Player:

Derrick Henry

 Game:

1

 Passing Yards:

0

 Passing TDs:

0

 Rushing Yards:

275

 Rushing TDs:

3

 Receiving Yards:

25

 Receiving TDs:

1

Edit Player Game Stats

Cancel

BROWSE Seasons/ADD NEW Season Page:

Seasons

Add Seasons

Season Year: Super Bowl Winner: Super Bowl Runner Up:

season_year	super_bowl_champ	super_bowl_runner_up		
2023	Lions	Titans	Edit	Delete
2022	Steelers	Lions	Edit	Delete
2015	Broncos	Lions	Edit	Delete
2012	Lions	Eagles	Edit	Delete

EDIT Season Page:

Editing Season:

season_year	super_bowl_champ	super_bowl_runner_up
2015	Broncos	Lions

Edit Season

Season Year: 2015 Super Bowl Winner: Super Bowl Runner Up: