Write a brief description of your database architecture (<250 words). Feel free to provide a visual representation as an aide. Submit relevant responses in the written\_responses folder provided.

The PostgreSQL database extracts and structures the given dataset into five core entities: Team, Player, Game, PlayerStats, and Shot. Each entity is represented in the Django model for the player search system, using a relational database model. Foreign keys define the relationships between the entities to ensure data integrity in the PostgreSQL database, as follows:

* **Team:** The team table stores team information, with team\_id as the primary key. Each team is associated with multiple players.
* **Player:** The player table tracks individual player data, linking each player to a team through the foreign key team\_id.
* **PlayerStats:** The player\_stats table captures detailed statistics for each player during a specific game. It includes data such as points, assists, and rebounds. It is linked to both the player and game tables using foreign keys (player\_id and game\_id).
* **Shot:** The shot table records each shot attempt, whether it was successful (is\_make), and the shot location (location\_x, location\_y). It is linked to player\_stats via the foreign key player\_stats\_id.
* **Game:** The game table stores information about games, including the participating teams (home\_team\_id and away\_team\_id) and the date of the game.

This schema provides an efficient, normalized structure to manage team performance, individual player statistics, and detailed shot information, ensuring scalability and data consistency.