

Huntington Women's Basketball

Chidi Emenike | Huntington University | CS 415 Database Management – Fall 2025 - Final Project



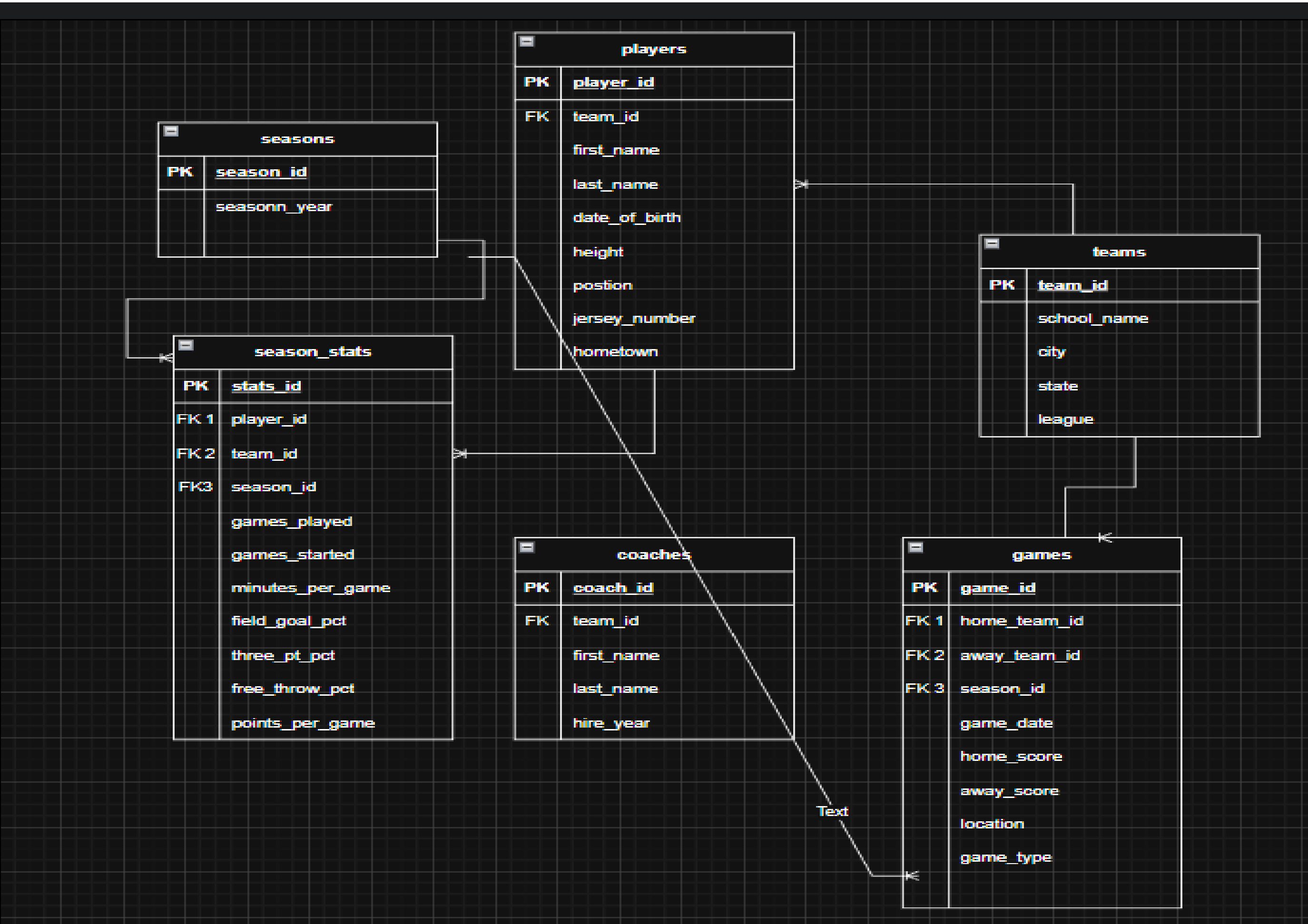
Overview

- Coaches, staff, and athletic administrators have easy access to up-to-date information that supports better decision-making, performance tracking, and long-term player development.
- From a user's perspective, the Huntington University Women's Basketball Database will serve as a central hub for organizing and retrieving all information related to the team's operations.

Design

- The database is designed to track Huntington University Women's Basketball, including players, teams, coaches, games, seasons, and player statistics. Each table is normalized to minimize redundancy, with primary keys uniquely identifying records and foreign keys linking related data, such as players to teams and games to seasons. A design choice was separating season_stats from players to allow storing performance data for multiple seasons without duplicating player information.

ER Model



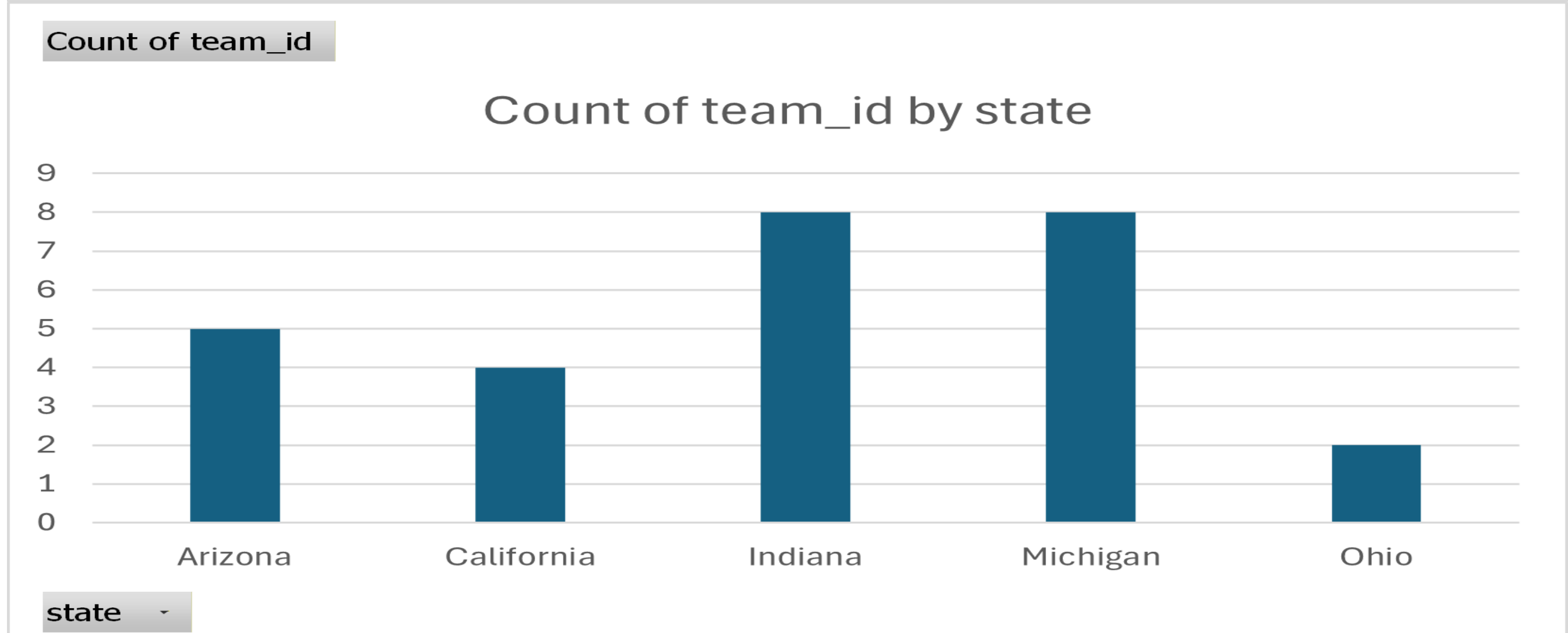
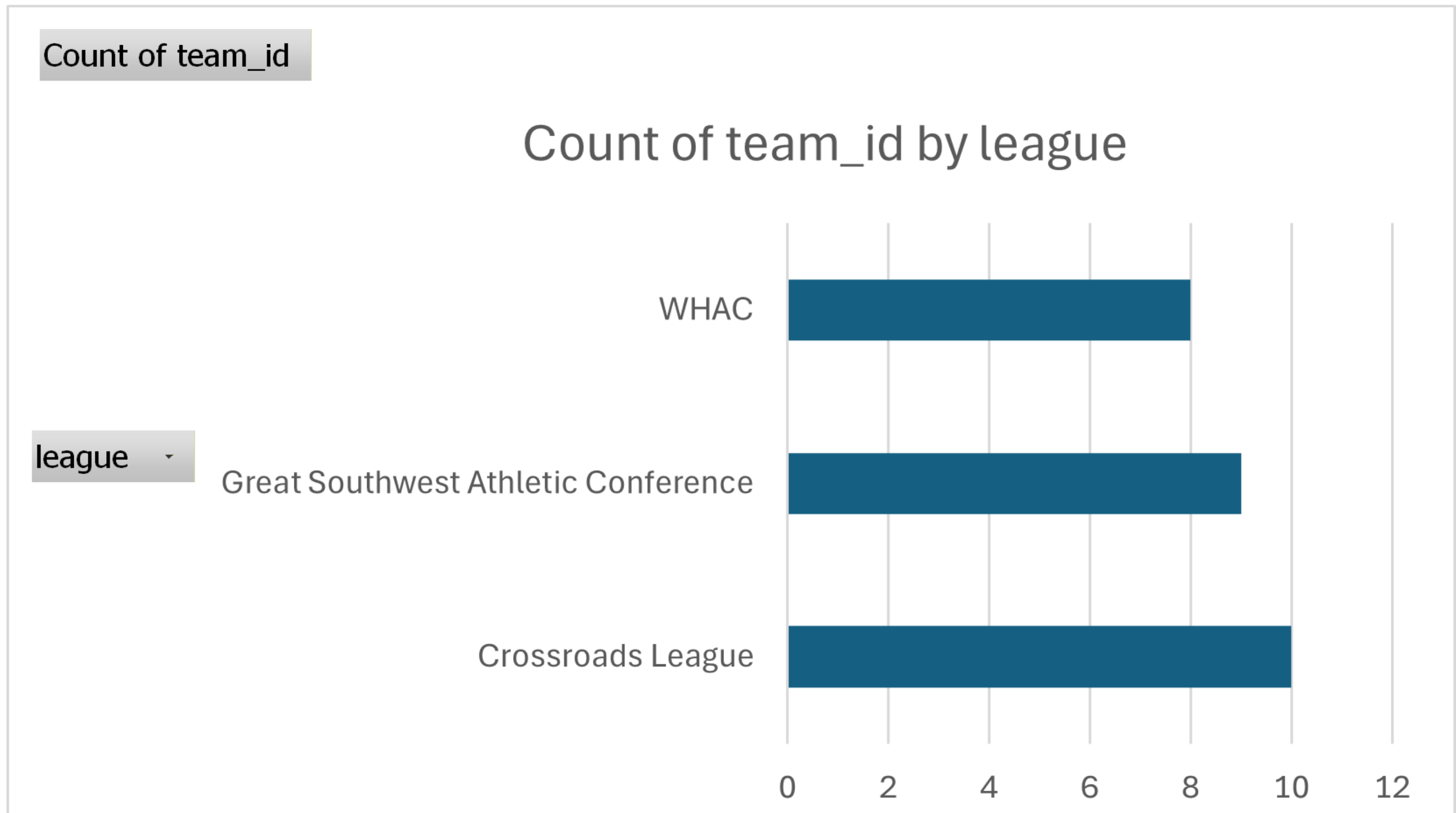
Data

- PLAYERS: Holds personal info, physical attributes, jersey numbers etc
- TEAMS: Contains team identifiers, location, and league membership..
- COACHES: Links coaches to teams with hire year info.
- GAMES: Tracks scores, home/away teams, game type, location, and season
- SEASONS: Keeps track of the academic/athletic seasons.
- SEASON STATS: Tracks detailed player performance metrics by season

Queries

- This query shows all Huntington University players, ordered first by position and then by last name.
- SELECT player_id, first_name, last_name, position, jersey_number FROM players ORDER BY position, last_name;
- This query shows the teams having players greater than or equal to 15.
- SELECT t.team_id, t.school_name, COUNT(p.player_id) AS total_players FROM teams t LEFT JOIN players p ON t.team_id = p.team_id GROUP BY t.team_id, t.school_name HAVING COUNT(p.player_id) >= 15;
- This query shows who had the highest three pointer percentage in descending order. Using minutes per game > 20 we see typically the starting players.
- SELECT p.first_name, p.last_name, s.three_pt_pct FROM players p LEFT JOIN season_stats s ON p.player_id = s.player_id WHERE s.season_id = 2 AND minutes_per_game > 20 ORDER BY s.three_pt_pct DESC;
- This query gives the point difference between games during the 2024-25 season. We could also add the team ids and be able to tell how much the team lost or won by.
- SELECT game_id, home_score, away_score, (home_score - away_score) AS point_diff FROM games WHERE season_id = 2;

Reports



Future Work

Future work for the database could include expanding it to cover multiple years and teams beyond Huntington University, allowing for greater analysis and comparisons across the league. Additional features could include tracking detailed game events like assists, rebounds, and turnovers. Another enhancement could be building a web or mobile interface to make the data more accessible and interactive for coaches, analysts, and fans.

Works Cited

- <https://www.huathletics.com/sports/wbkb/2025-26/roster>
- I also used the athletics pages of the NAIA schools.