

# Sports Tournament Tracker

## Introduction

The Sports Tournament Tracker is a structured and scalable database system built using MySQL to manage match outcomes, player statistics, and team performances in a tournament. It ensures real-time tracking of results and generates valuable insights into team and player efficiency throughout the event.

## Abstract

This project aims to build a data-driven solution for sports tournament management. It captures player performance, match scores, and team standings. With the use of SQL queries, views, and CTEs, it facilitates leaderboard generation, average statistics, and performance reports. The system ensures accuracy, accessibility, and a clean representation of tournament data.

## Tools Used

- Database: MySQL
- Editor: MySQL Workbench / SQLiteStudio
- Languages: SQL
- Reporting: Export via MySQL/CSV tools

## Steps Involved in Building the Project

1. Schema Design: Created tables - Teams, Players, Matches, and Stats.
2. Data Insertion: Inserted sample data for 2 teams and 11 players each.
3. Query Writing: Summarized match results and player statistics.
4. View Creation: Leaderboards and points table using SQL views.
5. CTE Usage: Calculated average player performance.
6. Report Export: Generated and exported performance summaries.

## Conclusion

The Sports Tournament Tracker successfully provides a dynamic system to record and evaluate team and player performance using SQL. It can be extended for multi-team, multi-season sports events. Its use of queries, views, and CTEs makes data handling simple, fast, and insightful.

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