Project Report

Sports Tournament Tracker

Abstract

The Sports Tournament Tracker is a database project designed to manage and track sports tournaments efficiently. It records teams, players, match results, and player statistics, and provides analytical insights like leaderboards, team points, and average player performance. This system simplifies tournament management and allows quick generation of reports for performance evaluation.

Introduction

In a sports tournament, tracking team performances, player statistics, and match outcomes manually is time-consuming and prone to errors. This project creates a structured MySQL database that stores all relevant data and allows easy querying for reports, rankings, and insights. The system is useful for coaches, organizers, and analysts to evaluate players and teams effectively.

Tools Used

- **Database:** MySQL
- **Client Tool:** MySQL Workbench
- **File Export:** CSV (for reports)

Steps Involved

1. **Database Creation**
   - Created the database SportsTournamentDB.
   - Designed schema with four tables: Teams, Players, Matches, and Stats.
2. **Data Insertion**
   - Inserted sample data for teams, players, match results, and player statistics.
3. **Queries**
   - Wrote queries to retrieve match results, player scores, and team points.
   - Used GROUP BY and SUM to calculate total points.

o　 Used CTE to calculate average player performance.

4. **Views**

　o　 Created Player_Leaderboard view for ranking players based on total points.

　o　 Created Team_Points view for ranking teams based on accumulated points.

5. **Reports**

　o　 Exported CSV files for Teams, Players, Matches, Stats, and leaderboard views.

　o　 Generated team and player performance reports.

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Conclusion

The Sports Tournament Tracker efficiently manages match results and player statistics. With MySQL queries, views, and reports, it provides insights into team and player performance. It is a simple yet effective system for managing tournaments, generating leaderboards, and analyzing player performance.