Project Report: Sports Tournament Tracker

1. Introduction

The Sports Tournament Tracker project is designed to manage and analyze match results and player statistics for a sports tournament. It allows easy tracking of player performance, team rankings, and game results using SQL queries.

2. Abstract

This project demonstrates the creation and querying of a relational database to simulate a real-world sports tournament. It includes designing normalized tables for teams, players, matches, and stats, and building queries to generate leaderboards, match summaries, and player performance metrics.

3. Tools Used

- MySQL (Command Line Client)

- PDF Editor

- GitHub for version control

4. Steps Involved

1. Requirement Analysis: Defined schema covering teams, players, matches, and statistics.

2. Database Design: Created normalized tables using MySQL.

3. Data Population: Inserted mock data for testing and analysis.

4. Query Implementation: Built complex SQL queries including views and CTEs.

5. Report Generation: Exported views for leaderboard and team performance.

6. Version Control: Pushed project to GitHub.

5. Conclusion

The Sports Tournament Tracker successfully demonstrates core SQL skills such as schema design, data manipulation, aggregation, and performance reporting. It provides a practical foundation for

real-time tournament or sports analytics applications.