CRICKET PERFORMANCE ANALYSIS

TEAM 3

Abithaa Shree VenkateshAnn MathewAnto Frederic Henry Mohan DassGautam RaghuSohan Shetty

Background

This section provides an overview of our client, a prominent entity in the sports analytics domain with a keen focus on cricket. The client seeks to leverage advanced data analytics to enhance understanding and strategies in cricket. The dataset encompasses extensive cricket match statistics, player performances, and seasonal data aimed at facilitating a deep dive into the nuances of the game.

Client Details:
Current IPL broadcasts feature basic game statistics like runs, wickets, and strike rates. While these provide essential insights, there's a growing demand among viewers for deeper, more nuanced analytics. Fans are seeking advanced metrics that reveal player strategies, decision-making processes, and game dynamics, bridging the gap between casual viewing and in-depth understanding. This presents an opportunity for the IPL to innovate by incorporating advanced statistical analyses into their broadcasts, enhancing fan engagement and enriching the viewing experience.

Dataset Description: The dataset comprises detailed records of cricket matches, including player performances (batting, bowling, fielding statistics), match outcomes, venue details, and season-wise performance metrics. It is designed to enable a comprehensive analysis of cricket dynamics, player impact, and strategic insights.

We have 5 tables:

DELIVERIES: match_id, innings, ball, batting_team, bowling_team, runs_off_bat, extras, wides, no balls, byes, legbyes, penalty, wkt_type, plyr_dis, othr_wkt_typ, othr_plyr_dis, strkr_id, non_strkr_id, bowler_id

MATCH: season, date, match_no, toss_awinner, toss_decision, Plyr_match, winner, win_by, match_id, winner_typ, outcome, eliminator, method, venueID

VENUE: id, city, venue

PLAYERS: Name, Full Name, Birth Info, Batting Style, Bowling Style, Playing Position, identifier, Bowling Type, Bowling Arm

LINEUP: Match_ID, Team, Players, identifier

Introduction

Our project explores the ambition to explore and analyze cricket data to uncover insights into player performances, match outcomes, and strategic elements influencing the game. Our

project is driven by a passion for cricket and a desire to contribute to a deeper understanding and appreciation of the sport through data-driven analysis.

Project Question

Our project seeks to answer the overarching question: "How can data analytics enhance the understanding of player performances and strategic decisions in cricket?" This question is addressed through various angles, including player performance metrics, match outcome influencers, and tactical game insights.

Project Statement

Cricket Performance Analytics System: A detailed exposition of our project's goal to analyze cricket statistics for insights into player performances, match dynamics, and strategic implications. This comprehensive system aims to serve cricket enthusiasts, coaches, and analysts by providing a tool for detailed performance analysis and strategic planning.

Player Performances

Analysis focuses on identifying top performers and game-changing players based on a variety of metrics, aiming to highlight the contributions of batsmen and bowlers to their teams' successes.

Winning Insights

Investigates the factors contributing to match outcomes, emphasizing the tactical aspects of the game, such as the impact of the toss, venue characteristics, and the role of all-rounders.

Benchwarmers Analysis

Examines the players who spend the most time on the sidelines, aiming to uncover patterns in selection strategies and recognize underutilized talents.

Other View Ideas

Provides additional perspectives on cricket analytics, including match-level insights, venue statistics, and player performance trends, to offer a rounded understanding of cricket dynamics.

Database Optimization and Stored Procedures

Details the technical aspects of managing the project's data, focusing on database efficiency, data integrity, and ease of data retrieval and maintenance.