



## **Database Project (Group - 9)**

### **World of International Cricket**

## **DBMS – IT214**

Kartavya Akabari - 202201213

Aaditya Pithadiya - 202201224

Divyesh Ramani - 202201241

Jaimin Prajapati - 202201228

Vivek Vaghela - 202201197

Group Representative : Kartavya Akabari

Contact number : 7567305122

- **Objective:-**

- Our objective of the database is to centralize information on International Cricket Council (ICC) events and bilateral series. It will manage data including tournaments, matches, teams, players, venues, schedules, results, and statistics. This database aims to streamline ICC's management processes, support decision-making, and provide stakeholders with easy access to accurate cricket-related information.

- **Application Users:-**

- **International Cricket Council (ICC) Administrators:** Those responsible for organizing and managing ICC events, including tournaments, Bilateral series, and ICC award ceremonies.
- **Cricket Teams and Players:** Professional cricket teams and players interested in accessing information about past events, matches, and statistics for performance analysis and strategic planning.
- **Cricket Fans and Enthusiasts:** Individuals passionate about cricket who want to stay updated on past events, match results, player performances, and historical data.
- **Media Outlets:** Journalists, broadcasters, and sports media organizations seeking reliable and comprehensive data for reporting, analysis, and storytelling.
- **Cricket Researchers and Analysts:** Academics, statisticians, and analysts interested in studying trends, patterns, and historical data related to ICC events for research purposes.

- **Sponsors and Partners:** Companies and organizations looking to sponsor or partner with ICC events, requiring access to detailed information for marketing and sponsorship decisions.
- **Cricket Governing Bodies:** National cricket boards and other cricket governing bodies interested in collaborating with the ICC or utilizing the database for their purposes.

- **Board registration for permanent members of ICC:-**

- All cricket boards must register on the site before participating in any tournament or series. At the time of registration, each cricket board will be assigned a unique board ID.
- The board is an organization that is responsible for managing cricket events and bilateral series organized by the ICC within a particular country.
- Boards also organize domestic-level cricket tournaments such as IPL, PSL, BBL, etc. but we are restricting ourselves by only including international-level cricket tournaments and series as they are more relevant to the ICC than any domestic series or leagues.

- **Player Registration:-**

- Players are selected by their respective boards for every bilateral series and event based on outstanding performances in domestic leagues.
- Each player is associated with statistics including their date of birth (DOB), debut, number of matches played, batting average, strike rate, number of centuries and half-centuries, bowling average, strike rate, number of 5-wicket hauls, number of 10-wicket hauls, total runs scored, and total wickets taken.

- These statistics provide valuable insights into the player's performance and contribution to their team. They serve as a basis for selection and evaluation, helping boards make informed decisions about team composition.
- Additionally, they highlight the player's achievements and milestones throughout their career, showcasing their skills and impact on the field.

- **Umpire registration:-**

- In any cricket match, the umpire plays a crucial role as they are responsible for officiating the matches and ensuring fair play on the field between two teams during a match.
- Every umpire is assigned a unique umpire ID at the time of registration. Related to umpires, we will also take into consideration factors such as decision accuracy, years of experience, and the respective country of the umpire.

- **Stadium Entry:-**

- Stadiums serve as central venues for hosting various types of cricket matches and events.
- Each ICC event and bilateral series is hosted in a specific country. Therefore, the ICC requires data on the number of stadiums, their capacities, and information about pitches in each country to maximize revenue and ensure effective event planning.
- Additionally, this data aids in assessing the suitability of venues and pitches, contributing to the overall quality and success of

cricket matches and events.

- **New ICC events occurrences such as World Cup, Test championship:**

- The ICC organizes various types of events such as the World Cup, Champions Trophy, U-19 World Cup, and World Test Championship for both men and women.
- When selecting host countries for these events, the ICC considers factors like suitability for hosting, including weather conditions, pitch quality, and revenue potential. After each match in these events, the ICC conducts a post-match presentation where outstanding performers are recognized and awarded for their contributions.

- **New Bilateral series between Two teams:-**

- Similarly to tournaments, the ICC also organizes bilateral series between two teams. Prior to the series, representatives from both boards convene in ICC meetings to mutually decide the format and conduct of the series, whether it be Test, ODI, or T20I matches.
- The host team holds the responsibility of determining the venue's suitability for hosting, taking into consideration factors such as weather conditions, pitch quality, and revenue potential.
- Following the conclusion of matches and series, the ICC conducts post-match presentations where outstanding performers are recognized and awarded.

- These awards include the Trophy, Man of the Match, and Man of the Series.

- **Team ranking and player ranking:-**

- After each tournament, whether it's a bilateral series or an international tournament, the International Cricket Council (ICC) updates the team rankings. These rankings are based on a points system that takes into account the results of matches played by each team over a specific period.
- Similarly, after each tournament, the ICC updates player rankings across various formats of the game (Test, ODI, T20). These rankings are based on individual player performances in recent matches.

- **All other dynamics updates:-**

- After every match, the statistics are updated for players who participated in the match. This includes updating their total runs scored, batting average, strike rate, total number of wickets taken, number of 50s, 100s, 5-wicket hauls, 10-wicket hauls, and best performances.
- Additionally, the accuracy of umpires is also recorded and updated in the database.
- Furthermore, any new stadium entries or updates to stadium capacities, as well as updates to player, match, series, event, and awards data, are dynamically managed in the database.

- This dynamic updating of data ensures that the database remains current and accurate, reflecting the latest information and performances in the world of cricket.

- **Add reward details :-**

- ICC presents awards to players following bilateral series, World Cups, World Test Championships, Champions Trophy, and U19 World Cups.
- These awards recognize outstanding performances and contributions to the game.
- They include Player of the Match, Player of the Series, Man of the Match, Man of the Series, Best Batsman of the Year, Best Bowler of the Year, Best All-Rounder, ICC Cricketer of the Year, and ICC Cricketer of the Decade.
- These accolades serve to honor the skill, dedication, and sportsmanship displayed by players on the international stage, encouraging excellence and promoting the spirit of cricket worldwide.

- **Tentative list of Reports(Queries):-**

- Explore player and team profiles, including statistics.
- Check match results and highlights from past ICC tournaments.
- Share event details and cricket content on social media platforms.
- Which team scored the highest run in one inning of test cricket history?
- Who scored the most runs in female World Cups.