

PROJECT REPORT

IPL AUCTION DATABASE MANAGEMENT SYSTEM

Stakeholders and their roles:

- **Players:**

- They are the key stakeholders of the database
- This database will have a record of all their performances and achievements.
- They will also have the access to see the records of other players.

- **Coaches:**

- They can simply view player's achievements whenever they wish.

- **Team Owner:**

- They can view the performances of all players, all coaches, and team achievements along with their expenditure.

- **Data Admin:**

- They have access to see all data of players.
- They can also add or remove data of the team including players, stadiums, matches, and coaches.

- **Data Analyst:**

- They can tell players about their weaknesses.
- They can have data about the pitches, opposing teams, and players.

Entities: Players, Coach, Team Owner, Data analyst, Data admin, Teams, Stats, Auction, Stadium.

Schema:

Players:

ID Name
Age
Height
Nationality
Type (Bowler/Batsman)
Price
Jersey No.
Debut date
Teams played under Speciality Stats

Teams:

Name
Total Trophy won
Captain
Vice-Captain
Bowling Coach
Batting Coach

Fielding Coach
Sponsors
Owners Name
Most Expensive Player of team
No. of Indian players
No. of foreign players
Previous standing at Points Table
Total no. of Bowlers
Total no. of Batsman
Total no. of All Rounders
Total Indian capped players
Total no. of uncapped players
Total purchase bag available
Total Indian slots available
Total foreign slots available
Current Players List
Home Ground

Coach:

Name
Age
Past Experiences
Type
International records

Nationality

Titles Won

Nature

Stadium:

Name

Location

Capacity

Pitch Type

No. of Entry gates

No. of Exit gates

No. of workers

No. of tickets Counter

No. of restaurant's

Dimensions

Year of establishment Last 5 T20 matches

Average 1st innings score

Average 2nd innings score

Stats:

Player ID

Total runs in IPL

Total no. of match played

Total 6's

Total 4's
Total 100+
Total 50+
Total 30+
Total no. of wickets
Total no. of catches
International record
Debut date
Teams played under
Speciality

Auction:

Date
Location
No. of players available
Player's List Total Indian players
Total foreign players
Teams Bag
Auctioneer
Media

Queries for stakeholders:

Players:

1. What were my stats last season?
2. What were others stats last season?
3. What are the attributes of a particular stadium?
4. What are the stats of different teams?
5. When and where is the auction?
6. What is my base price?

Team Owners:

1. What were the stats of a particular player last season?
2. What was the past performance of a particular coach?
3. What are the stats of different teams?
4. Who are the sponsors of a particular team?
5. Who are other owners of different teams?
6. When and where is the auction?
7. What are base prices of different players?

Coach:

1. What are the stats of different teams?
2. Who are coaches of other teams?
3. What are stats of different players?
4. What are the attributes of a particular stadium?
5. When and where is the auction?
6. Which players have a particular attribute (e.g., Death Specialist, Spin King etc.)?
7. What are base prices of different players?

Data Analyst:

1. How much capped players are there?
2. How much uncapped players are there?
3. How many foreign players are there?
4. How many players are participating from a particular nation?
5. How many players are available in a particular slot?
6. How many players are there with a particular attribute?

Use of this database:

We chose this database as we all have an interest in cricket and IPL and working on something common to all of us can help in getting the best out of us. IPL auction is also round the corner and this motivated us to choose this topic. It also resembles a real-life example as every year we have an auction in which a database is created to assist teams and their owners in auction.