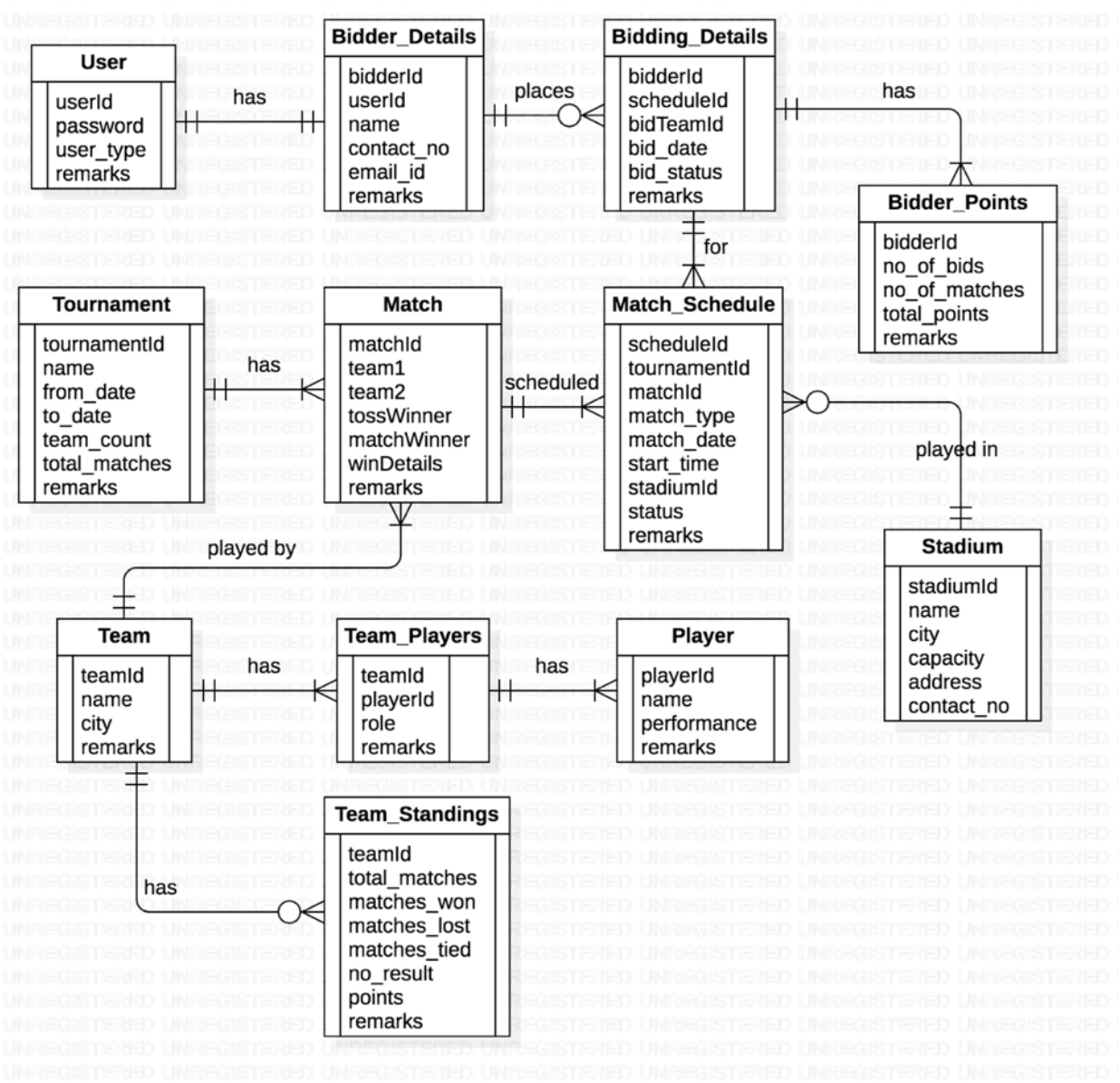
ER Diagram


User
userId
password
user_type
remarks
has
Bidder_Details
bidderId
userId
name
contact_no
email_id
remarks
places
Bidding_Details
bidderId
scheduleId
bidTeamId
bid_date
bid_status
remarks
has
Bidder_Points
bidderId
no_of_bids
no_of_matches
total_points
remarks
for
Tournament
tournamentId
name
from_date
to_date
team_count
total_matches
remarks
has
Match
matchId
team1
team2
tossWinner
matchWinner
winDetails
remarks
scheduled
Match_Schedule
scheduleId
tournamentId
matchId
match_type
match_date
start_time
stadiumId
status
remarks
played in
Stadium
stadiumId
name
city
capacity
address
contact_no
played by
Team
teamId
name
city
remarks
has
Team_Players
teamId
playerId
role
remarks
has
Player
playerId
name
performance
remarks
has
Team_Standings
teamId
total_matches
matches_won
matches_lost
matches_tied
no_result
points
remarks

List of Tables

1. **Table: IPL_User**

Column name	Data type	Comments
UserId	VARCHAR	Primary key
Password	VARCHAR	Not null, encrypted format
User_type	VARCHAR	Admin or Bidder. Not null
Remarks	VARCHAR	

2. **Table: IPL_Stadium**

Column name	Data type	Comments
StadiumId	NUMBER	Primary key
Stadium_name	VARCHAR	Unique, Not null
City	VARCHAR	
Capacity	NUMBER	
Address	VARCHAR	
Contact_no	NUMBER	

3. **Table: IPL_Team**

Column name	Data type	Comments
TeamId	NUMBER	Primary key
Team_name	VARCHAR	Unique, Not null
Team_city	VARCHAR	Origin city of the team
Remarks	VARCHAR	

4. **Table: IPL_Player**

Column name	Data type	Comments
PlayerId	NUMBER	Primary key
Player_name	VARCHAR	Unique, Not null
Performance	VARCHAR	Performance details
Remarks	VARCHAR	

5. **Table: IPL_Team_players**

Column name	Data type	Comments
TeamId	NUMBER	Composite Primary key
PlayerId	NUMBER	Composite Primary key
Player_role	VARCHAR	Captain, Batsman, Bowler, WK, etc.
Remarks	VARCHAR	

6. **Table: IPL_Tournament**

Column name	Data type	Comments
TournamentId	NUMBER	Primary key
Tournament_name	VARCHAR	Not null
From_date	DATE	
To_date	DATE	
Team_count	NUMBER	
Total_matches	NUMBER	
Remarks	VARCHAR	

7. **Table: IPL_Match**

Column name	Data type	Comments
MatchId	NUMBER	Primary key
TeamId1	NUMBER	FK from Team table. Not null
TeamId2	NUMBER	FK from Team table. Not null
TossWinner	NUMBER	Team no. 1 or 2
MatchWinner	NUMBER	Team no. 1 or 2
WinDetails	VARCHAR	Team 1 or 2 Won by XX runs or X wickets, Match tied.
Remarks	VARCHAR	E.g. Match canceled due to rain.

8. **Table: IPL_Match_Schedule**

Column name	Data type	Comments
ScheduleId	NUMBER	Primary key
TournamentId	NUMBER	FK from Tournament table.
MatchId	NUMBER	FK from Match table.
Match_type	VARCHAR	League, Knock out, Final, etc.
Match_date	DATE	This date should be within the from and to dates of the tournament.
Start_time	TIME	
StadiumId	NUMBER	FK from Stadium table
Status	VARCHAR	Scheduled, Completed, Cancelled, etc.
Remarks	VARCHAR	

9. **Table: IPL_Bidder_Details**

Column name	Data type	Comments
BidderId	NUMBER	Primary key
UserId	NUMBER	FK from User table.
Bidder_name	VARCHAR	Not null
Contact_no	NUMBER	Not null
Emailid	VARCHAR	
Remarks	VARCHAR	

10. Table: IPL_Bidding_Details

Column name	Data type	Comments
BidderId	NUMBER	FK from Bidder table. Composite Primary key
ScheduleId*	VARCHAR	FK from Match_Schedule table. Composite Primary key.
BidTeam	NUMBER	One of the team ids of the match (1 or 2). Composite primary key.
BidDate	DATETIME	Exact date & time of placing the bid. Update this column if a bidder re-bids on the same team for the same match. Composite Primary key.
BidStatus	VARCHAR	Bid, Cancelled, Won, Lost

* FK from Match_Schedule to bid for only matches that are 'scheduled'.

11. Table: IPL_Bidder_Points

Column name	Data type	Comments
BidderId	NUMBER	FK from Bidder table. Primary key
TournamentId	NUMBER	FK from Tournament table.
No_of_bids	NUMBER	Total no. of bids placed by a bidder. Updated after completion of the match on which s/he placed the bid.
No_of_matches	NUMBER	Total no. of matches on which s/he placed the bid. Updated as above.
Total_points	NUMBER	Not null. Default 0

12. Table: IPL_Team_Standings

Column name	Data type	Comments
TeamId	NUMBER	FK from Team table. Primary key
TournamentId	NUMBER	FK from Tournament table.
Matches_played	NUMBER	Not null. Default 0
Matches_won	NUMBER	Not null. Default 0
Matches_lost	NUMBER	Not null. Default 0
Matches_tied	NUMBER	Default 0
No_result	NUMBER	Default 0
Points	NUMBER	Not null. Default 0
Remarks	VARCHAR	