IPL Match Database

Scope

IPL match database keeps record of all the information about the matches held in an IPL season. This database contains information about match date and time, teams, players, umpires participating in a match and result of the match.

Tables

IPL match database has four main tables and four meta tables, these are as follows:

Main tables:
1. team
2. player
3. umpire
4. match

Meta tables:
1. homeground
2. nationality
3. player_category
4. result

- **team:**
  Teams table contains information about all the IPL cricket teams. The attributes include team_id which is unique for each team, team name and homeground which holds the code for a team's home ground.

- **player:**
  Player table contains information about all the cricket players. The attributes are jersey number which will identify the record of each player uniquely, player's name, age, team name, nationality, player's current statistics and player category that is whether he/she is a batter, bowler or all rounder.

- **umpire:**
  The Umpire table contains information about all the umpires participating in the IPL. It stores umpire id for unique identification of umpire record, name, nationality and match number in which that umpire has participated.

- **match_table:**
  This table contains information about all the matches held during a IPL season. The match details stored include match number, date and time, home team ID, guest team ID and the result of the match.

- **homeground**
  The homeground table contains names of homeground of all the IPL teams and the corresponding code. Each record is identified uniquely using the homeground code. This table is referred by the team table.

- **nationality**
  Nationality table stores country name and country code. Each record is identified uniquely using the country code. This table is referred by the player table and umpire table.
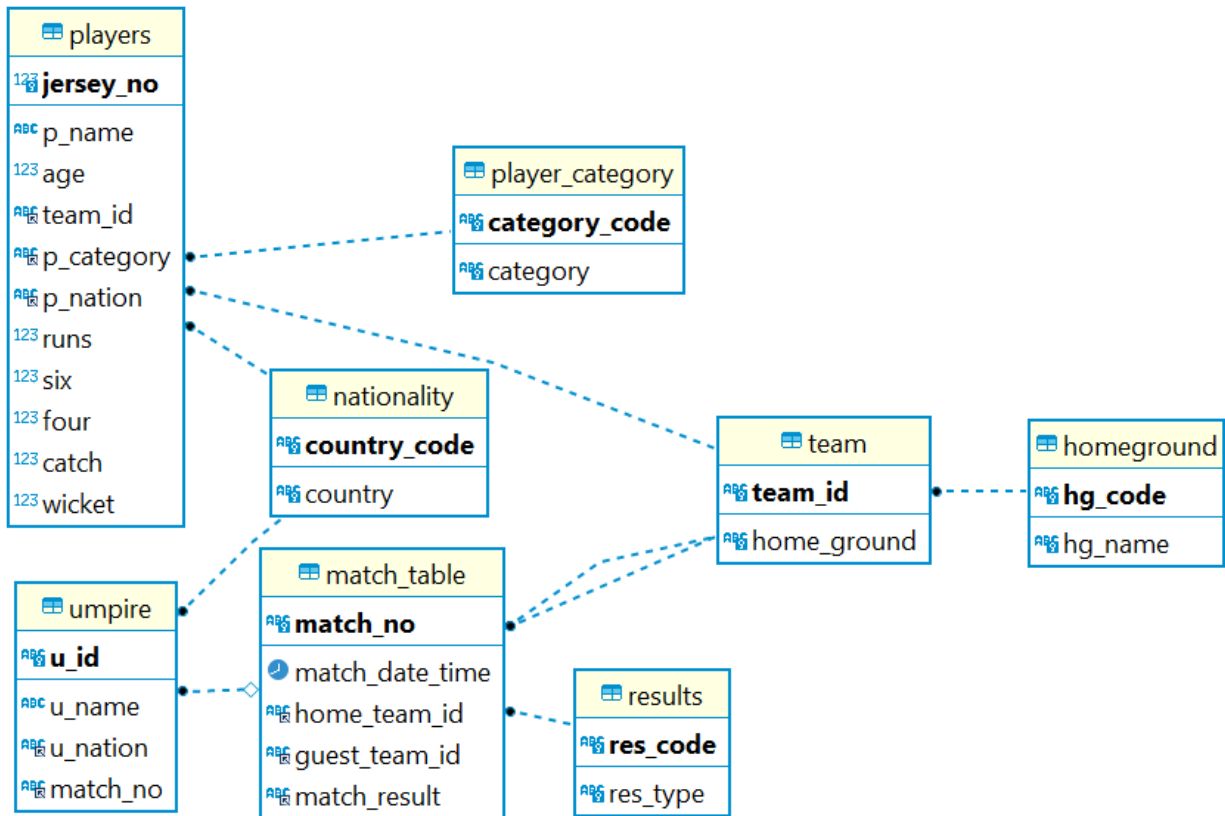
- **player_category**
  This table is for storing codes for the player category which is referred by the player table. Each record is identified uniquely by the category code.

- **result**
  result table is for storing codes for result of a match. This table is referred by the match table and each record is identified uniquely by the result code.

Schema Design

The below diagram is the pictorial representation of the above description of tables in this database.

Constraints

The constraints for the match_table entity are as follows:
1. In a record, the home team ID cannot be the same as the guest team ID and vice versa.
2. The home team ID should not repeat in records, similarly for guest team ID.
3. The pair of teams participating in the match must be unique.