**Documentation for mavs-basketball buckets**

**frames:**

|  |  |
| --- | --- |
| **column** | **description** |
| game\_code | id of the particular game in YYYY-MM-DD-AAA-HHH format where Y = year, M = month, D = day, A = away team, and H = home team |
| idx | unique frame number for the period, updated 25 times per second |
| period | regulation periods 1-4, overtime periods 5 and up |
| utc\_time | coordinated universal time at which the frame occurred |
| game\_clock | time remaining on the game clock when the frame occurred |
| home\_team | home team NBA abbreviation |
| away\_team | away team NBA abbreviation |
| ball\_x | x coordinate of the ball at the time of the frame |
| ball\_y | y coordinate of the ball at the time of the frame |
| ball\_z | z coordinate of the ball at the time of the frame |
| hp1(-5) | NBA id of the home players, with 1 being closest to the ball and 5 being farthest |
| hp1(-5)\_x | x coordinate of the corresponding home player |
| hp1(-5)\_y | y coordinate of the corresponding home player |
| ap1(-5) | NBA id of the away players, with 1 being closest to the ball and 5 being farthest |
| ap1(-5)\_x | x coordinate of the corresponding away player |
| ap1(-5)\_y | y coordinate of the corresponding away player |

**simple-markings:**

|  |  |
| --- | --- |
| **column** | **description** |
| game\_code | id of the particular game in YYYY-MM-DD-AAA-HHH format where Y = year, M = month, D = day, A = away team, and H = home team |
| period | regulation periods 1-4, overtime periods 5 and up |
| frame | frame at which event occurred (for shots, this is when the shot is released) |
| event | 2PM = 2 point field goal made  2PX = 2 point field goal missed  3PM = 3 point field goal made  3PX = 3 point field goal missed  ORB = offensive rebound  DRB = defensive rebound  TO = turnover  FOUL = foul  SUB = substitution  JMP = jump ball  SPD = start of period  EPD = end of period  DRIB = dribble  PASS = pass  POSS = player gained possession of the ball  BLK = block  SF = shooting foul |
| player\_id | NBA id of primary player involved in event |
| dplayer\_id | NBA id of secondary player involved in event |

**meta:**

**games**

|  |  |
| --- | --- |
| **column** | **description** |
| nba\_id | NBA id number for the game |
| ssi\_id | Second Spectrum id number for the game |
| stats\_id | STATS LLC id number for the game |
| date | Date on which the game occurred |
| away | NBA abbreviation for away team |
| home | NBA abbreviation for home team |
| game | id of the particular game in YYYY-MM-DD-AAA-HHH format where Y = year, M = month, D = day, A = away team, and H = home team |
| season | Season in which the game occurred, marked by the year of the last game of the season |
| playoffs | Whether or not the game occurred during the playoffs (1 of playoffs, 0 for regular season) |
| tracking | Whether or not optical tracking was available for the game (1 if available, 0 if not) |

**teams**

|  |  |
| --- | --- |
| **column** | **description** |
| nba\_id | NBA id number for the team |
| city | City where the team plays home games |
| name | Team nickname |
| abbrev | NBA abbreviation for each team |
| bref\_abbrev | Basketball-Reference abbreviation for the team |
| stats\_abbrev | STATS LLC abbreviation for the team |
| stats\_id | STATS id number for the team |
| ssi\_id | Second Spectrum id number for the team |

**players**

|  |  |
| --- | --- |
| **column** | **description** |
| nba\_id | NBA id number for the player |
| nba\_id\_alt | Alternate NBA id number for the player |
| stats\_id | STATS id number for the player |
| ssi\_id | Second Spectrum id number for the player |
| james\_id | Unique name for the player |
| bref\_id | Basketball-Reference id for the player |
| cbref\_id | College Basketball-Reference id for the player |
| ebref\_id | Europe Basketball-Reference id for the player |
| dx\_id | Draft Express id for the player (incomplete) |
| name | Player name |
| first | Player first name |
| last | Player last name |
| from\_year | Season in which player played his first NBA game, marked by the year when the first game of the season was played |
| to\_year | Last season in which player played in an NBA game, marked by the year when the first game of the season was played |
| on\_roster | Whether the player is currently on a roster |
| team\_id | NBA id of player’s current NBA team |
| team | NBA abbreviation of player’s current NBA team |
| birth\_date | Player’s birth date |
| ht | Player’s listed height in inches |
| wt | Player’s listed weight in pounds |
| pos\_id | Player’s approximate numeric position |
| pos\_name | Player’s listed position |
| draft\_year | Year in which the player was draft eligible (incomplete) |