Package 'volleystat'

October 12, 2022

Title Detailed Statistics on Volleyball Matches

Maintainer Viktor Bozhinov <mail@viktor-bozhinov.de>

Version 0.2.0

Description

2 matches

matc	hes	Matche.	s data		
Index					10
	volleystat			 	9
	team_adresses .			 	8
	sets				6

Description

A dataset containing all matches of the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019. Note that all matches are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

Usage

matches

Format

Data frame with 3392 rows and 12 columns.

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

competition_stage Stage of the competition, i.e., main round or play-offs.

match_id Official VBL match id. Unique within seasons.

match Factor variable identifying whether observation is from the home team's perspective or from the away team's perspective.

match_day Match day (only main round, see competition_stage).

date_time POSIXct date-time variable of the match.

spectators Number of spectators in the gym.

match_duration Length of match in minutes.

team_id Team identifier which is unique across all teams and seasons.

team_name Official name of the team. Note that VCO Berlin has a team in men's and women's league.

set_won Number of sets won by the team.

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

matchstats 3

Examples

matchstats

matchstats

Matchstats data

Description

A dataset containing match-player level statistics of the German first division volleyball league for each match and each season starting in 2013/2014 and ending in 2018/2019.

Usage

matchstats

Format

Data frame with 32755 rows and 23 columns.

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

match_id Official VBL match id. Unique within seasons.

team_id Team identifier which is unique across all teams and seasons.

player_id Player identifier which is unique within a team in a season. This identifier equals to the shirt number of the player. However, in cases where more than one player has the same shirt number, the identifier is replaced by a 3-digit number starting at 100.

shirt_number Official shirt number, not unique within teams (see player_id).

vote Score computed according to the DataVolley settings. NA if not reported as numeric in the match report.

pt_tot Total points scored.

pt_bp Total break points scored.

pt_profloss Won minus lost points. More precisely, this variable is computed according to the following equation: serv_pt + att_pt + blo_pt - serv_err - rec_err - att_err - att_blo.

serv_tot Total number of serves.

ser_err Number of serving errors.

serv_pt Number of scored points at service, e.g., aces.

rec_tot Number of receptions.

rec_err Number of errors in reception.

rec_pos Share of positive receptions.

rec_per Share of perfect receptions.

att_tot Number of total attacks.

4 match_adresses

```
att_err Number of failed attacks.att_blo Number of blocked attacks.att_pt Number of successful attacks.att_per Share of successful attacks.blo_pt Number of successful blocks.
```

Source

```
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml
```

Examples

matchstats

match_adresses

Match adresses data

Description

A dataset containing name, adress, and coordinates of the gym of each match in the German first division volleyball league between 2013/2014 and ending in 2018/2019.

Usage

match_adresses

Format

Data frame with 1718 rows and 6 columns.

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

match_id Official VBL match id. Unique within seasons.

gym Official name of arena.

adress ZIP code and city.

lon Longitude of arena.

lat Latitude of arena.

Source

```
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_clubsspieler/1blf_spielhallen.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_clubsspieler/1blm_spielhallen.xhtml
```

players 5

Examples

match_adresses

players

Players data

Description

A dataset containing attributes of all players in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

Usage

players

Format

Data frame with 1853 rows and 13 columns.

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

team_id Team identifier which is unique across all teams and seasons.

team_name Official name of the team. Note that VCO Berlin has a team in men's and women's league.

player_id Player identifier which is unique within a team in a season. This identifier equals to the shirt number of the player. However, in cases where more than one player has the same shirt number, the identifier is replaced by a 3-digit number starting at 100.

shirt_number Official shirt number, not unique within teams (see player_id).

position Player's specialization firstname First name of the player lastname Last name of the player gender Player's gender: male or female. birthdate Date of birth height Height in cm nationality Nationality of player

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

Examples

players

6 sets

sets Sets data

Description

A dataset containing all matches of the German first division volleyball league for each season on set level. starting in 2013/2014 and ending in 2018/2019. Note that all sets are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

Usage

sets

Format

Data frame with 12660 rows and 9 columns.

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

match_id Official VBL match id. Unique within seasons.

match Factor variable identifying whether observation is from the home team's perspective or from the away team's perspective.

team_id Team identifier which is unique across all teams and seasons.

team_name Official name of the team. Note that VCO Berlin has a team in men's and women's league.

set Set identifier.

set_duration Length of set in minutes.

pt_set Points scored in set.

Source

https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml

Examples

matchstats

staff 7

staff

Team staff data

Description

A dataset containing attributes of all staff members of teams in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

Usage

staff

Format

A data frame with 1214 rows and 10 variables:

league_gender Men or women's league.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

team_id Team identifier which is unique across all teams and seasons.

team_name Official name of the team. Note that VCO Berlin has a team in men's and women's league.

firstname First name of the player **lastname** Last name of the player

gender Player's gender: male or female.

birthdate Date of birth

position Person's role in the team, e.g., couch, statistician, or assistant couch.

nationality Nationality of team member.

Source

```
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_archiv/1blf_tabellen_ergebnisse.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_archiv/1blm_tabellen_ergebnisse.xhtml
```

Examples

staff

8 team_adresses

team_adresses

Team adresses data

Description

A dataset containing name, adress, and coordinates of the home gym of each team in the German first division volleyball league between 2013/2014 and ending in 2018/2019.

Usage

team_adresses

Format

Data frame with 137 rows and 8 columns.

season_id ID for each season unique within league_gender. It consists of the last two digits of the season years, e.g., the season_id of season 2014/2015 equals 1415.

league_gender Men or women's league.

team_id Team identifier which is unique across all teams and seasons.

team_name Official name of the team. Note that VCO Berlin has a team in men's and women's league.

gym_adress ZIP code and city.

max_spectator Maximum capacity

lon Longitude of arena.

lat Latitude of arena.

Source

```
https://www.volleyball-bundesliga.de/cms/home/1blf/1blf_clubsspieler/1blf_spielhallen.xhtml https://www.volleyball-bundesliga.de/cms/home/1blm/1blm_clubsspieler/1blm_spielhallen.xhtml
```

Examples

team_adresses

volleystat

volleystat

volleystat: Volleyball match statistics

Description

This packages provides data on match statistics of the German volleyball first division league (seasons 2013/2014 to 2018/2019). The data has been collected from the official volleyball first division homepage (www.volleyball-bundesliga.de) and contains information on teams, staff, sets, matches, and player-in-match statistics (extracted automatically using tabulizer from the PDFs of the official match reports).

players

A dataset containing attributes of all players in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

staff

A dataset containing attributes of all staff members of teams in the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019.

matches

A dataset containing all matches of the German first division volleyball league for each season starting in 2013/2014 and ending in 2018/2019. Note that all matches are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

sets

A dataset containing all matches of the German first division volleyball league for each season on set level. starting in 2013/2014 and ending in 2018/2019. Note that all sets are included twice in the dataset, i.e., from the perspective of the home team and from the perspective of the away team.

matchstats

A dataset containing match-player level statistics of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.

match_adresses

A dataset containing addresses and coordinates of all matches of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.

team_adresses

A dataset containing addresses and coordinates of all teams of the German first division volleyball league for each match and each season starting 2013/2014 and ending 2018/2019.

Index

```
* datasets
    match_adresses, 4
    matches, 2
    matchstats, 3
    players, 5
    sets, 6
    staff, 7
     {\tt team\_adresses}, \textcolor{red}{8}
{\sf match\_adresses}, {\sf 4}
matches, 2
matchstats, 3
players, 5
sets, 6
staff, 7
team_adresses, 8
volleystat, 9
volleystat-package (volleystat), 9
```