Package ‘pinnacle.data’

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Type Package
Title Market Odds Data from Pinnacle
Version 0.1.4
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Description Market odds from Pinnacle, an online sports betting bookmaker (see <https://www.pinnacle.com> for more information). Included are datasets for the Major League Baseball (MLB) 2016 season and the USA election 2016. These datasets can be used to build models and compare statistical information with the information from prediction markets. The Major League Baseball (MLB) 2016 dataset can be used for sabermetrics analysis and also can be used in conjunction with other popular Major League Baseball (MLB) datasets such as Retrosheets or the Lahman package by merging by GameID.
License GPL-3
Encoding UTF-8
LazyData true
RoxygenNote 6.0.1
URL https://github.com/marcoblume/pinnacle.data
Depends R (>= 2.10), tibble
Suggests odds.converter, tidyverse, pinnacle.API, Lahman
NeedsCompilation no
Repository CRAN
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Description

Major League Baseball (MLB) data for the 2016 season.

Usage

MLB2016

Format

A tibble with 20 variables:

- GameID  same format as Retrosheets and BaseballReference data
- EventDateTimeUTC  Time of the game in UTC
- EventDateTimeET  Time of the game in Eastern Standard time
- AwayTeam  Team name of the Away Team
- HomeTeam  Team name of the Home Team
- DoubleHeaderGame  Indicates if this was a double Header
- AwayStartingPitcher  Starting pitcher Away Team
- HomeStartingPitcher  Starting pitcher Home Team
- FinalScoreAway  Runs scored by Away Team
- FinalScoreHome  Runs scored by Home Team
- EnteredDateTimeUTC  Time of the wager line in UTC
- EnteredDateTimeET  Time of the wager line in Eastern Standard time
- SpreadTeam1  Spread Handicap for Away Team
- SpreadUS1  Spread US odds for Away Team
- SpreadUS2  Spread US odds for Home Team
- MoneyUS1  Moneyline US odds for Away Team
- MoneyUS2  Moneyline US odds for Home Team
- TotalPoints  Total runs handicap
- TotalUSOver  Total runs US odds for Over
- TotalUSUnder  Total runs US odds for Under

Details

All wagering lines from Pinnacle for the 2016 MLB season
Examples

```r
if (require("tidyverse")) {
  library(tidyverse)
  # What was the range of expected total runs according to the prediction market at Pinnacle?
  MLB2016 %>%
    unnest() %>%
    group_by(GameID) %>%
    arrange(desc(EnteredDateTimeUTC)) %>%
    slice(1) %>%
    ungroup() %>%
    group_by(TotalPoints) %>%
    summarize(count = n())

  # How many games went Over/Under/Landed on the total?
  MLB2016 %>%
    unnest() %>%
    group_by(GameID) %>%
    arrange(desc(EnteredDateTimeUTC)) %>%
    slice(1) %>%
    ungroup() %>%
    select(GameID,TotalPoints,FinalScoreAway,FinalScoreHome) %>%
    mutate(TotalOutcome = case_when(
      FinalScoreAway + FinalScoreHome > TotalPoints ~ "Over",
      FinalScoreAway + FinalScoreHome < TotalPoints ~ "Under",
      FinalScoreAway + FinalScoreHome == TotalPoints ~ "Landed"
    )) %>%
    group_by(TotalPoints,TotalOutcome) %>%
    summarize(count = n()) %>%
    print(n=100)
}
```

Description


Usage

`USA_Election_2016`

Format

A data.frame with 5 variables:

- `EnteredDateTime` Time of the wager line in UTC
- `TeamName1` Team name of the Away Team
TeamName2 Team name of the Home Team
MoneyUS1 Moneyline US odds for Away Team
MoneyUS2 Moneyline US odds for Home Team

Details
All lines from Pinnacle for the 2016 US Presidential Election

Examples
if (require("odds.converter")) {
library(tidyverse)
# What is Hilary Clinton's the highest implied winning probability at Pinnacle?
USA_Election_2016[which.min(USA_Election_2016$MoneyUS1,"EnteredDate_Time")]
odds.converter::odds.us2prob(min(USA_Election_2016$MoneyUS1))
}

# What time on election night that Trump's implied winning probability surpassed Clinton's?
if (require("tidyverse")) {
library(tidyverse)
USA_Election_2016 %>%
filter(MoneyUS1>MoneyUS2) %>%
slice(1)
}
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