Package 'pinnacle.data'

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Type Package

Title Market Odds Data from Pinnacle

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Description Market odds from 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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Contents

MLB2016 *MLB2016.*

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 Standardtime

`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

`HomeStartingPicher` 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 Standardtime

`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

```
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)
}
```

`USA_Election_2016` *USA_Election_2016*

Description

US Presidential Election data 2016.

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$MoneyUS1),"EnteredDateTime"]
odds.converter::odds.us2prob(min(USA_Election_2016$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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