2/8/2019 Cricket Match

Analysis of Cricket matches

In [22]:

```
from pyspark.sql import *
# Creating a schema Row
Match = Row('Match_id', 'Team1', 'Team2', 'Winning_Team', 'Runs_scored_by_winner', 'Locatio
n')
# Creating enteries for the dataframe
match1 = Match(1, 'IND', 'AUS', 'IND', 300, 'Mumbai')
match2 = Match(2, 'SA', 'ENG', 'ENG', 350, 'Delhi')
match3 = Match(3,'BANG','KENIA','BANG',400,'Australia')
match4 = Match(4,'IND','SA','SA',200,'Pakistan')
match5 = Match(5,'IND','WI','WI',250,'India')
match6 = Match(6,'AUS','ITLAY','AUS',180,'India')
match7 = Match(7,'SA','WI','WI',313,'Sri Lanka')
match8 = Match(8,'IND','WI','IND',325,'Delhi')
match9 = Match(9,'IND','AUS','IND',400,'Mumbai')
match10 = Match(10,'IND','WI','WI',363,'Chennai')
In [23]:
```

```
# Showing the schema
Match
<Row(Match_id, Team1, Team2, Winning_Team, Runs_scored_by_winner, Locatio</pre>
n)>
In [24]:
```

```
# Showing match1
match1
```

```
Row(Match_id=1, Team1='IND', Team2='AUS', Winning_Team='IND', Runs_scored_
by winner=300, Location='Mumbai')
```

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In [25]:

```
# Creating a dataframe as df1 from a list
matches = [match1,match2,match3,match4,match5,match6,match7,match8,match9,match10]
df1 = spark.createDataFrame(matches)
df1.show()
```

+	+	+			+
Match_id	Team1	Team2	Winning_Team	Runs_scored_by_winner	Location
+	+	+			+
1	IND	AUS	IND	300	Mumbai
2	SA	ENG	ENG	350	Delhi
3	BANG	KENIA	BANG	400	Australia
4	IND	SA	SA	200	Pakistan
5	IND	WI	WI	250	India
6	AUS	ITLAY	AUS	180	India
7	SA	WI	WI	313	Sri Lanka
8	IND	WI	IND	325	Delhi
9	IND	AUS	IND	400	Mumbai
10	IND	WI	WI	363	Chennai
+	+	+	·		·+

In [26]:

selecting the fields from dataframe order by the winning team
df1.select('Match_id','Winning_Team','Runs_scored_by_winner').orderBy(df1.Winning_Team.
desc()).show()

+		
Match_id	Winning_Team	 Runs_scored_by_winner
+		-
5	WI	250
7	WI	313
10	WI	363
4	SA	200
9	IND	400
1	IND	300
8	IND	325
2	ENG	350
3	BANG	400
6	AUS	180
+		

In [28]:

grouping the Winning team and finding the maximum scored
df1.groupby('Winning_Team').agg({'Runs_scored_by_winner':'max'}).show()

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In [29]:

```
# Count of matches a team has won
df1.groupby('Winning_Team').count().show()
```

+	+
Winning_Team	count
+	+
AUS	1
WI	3
SA	1
ENG	1
IND	3
BANG	1
+	+

In []: