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Application of K-Means Clustering on Cricket Match Toss and final results to find any correspondence

Overview

We have often seen cricket matches, either at home in the comfort of the television screen or in a cricket stadium. Often after the toss, the winning team chooses to either bat or field, and we as a general spectator often speculate about the consequences of such a decision. Often, we also bombard our mind with questions like, will the toss-winner become the match winner too? Is luck in their favour? Here, I have taken up some real time data to see if the toss winning has some effect on match winning in a direct sense, or it's just merely a speculation.

Data Source

The data was sourced from a public GitHub repository of 'akpythonyt'. The link to the publicly accessible raw data is enclosed below

https://github.com/akpythonyt/Datasets/blob/main/matches.csv

Understanding the Data

The names of the columns and the meaning of the data they contain are presented herewith.

id - Serial numbering the rows

season - year in which the match was played

city - City in which the match was played

date - Date of the commencement of the match

team1 - First competitor in the match

team2 - Second competitor of the match

toss_winner : Team which won the toss

toss_desicion: The decision taken by the toss winning team, to either bat or bowl

result: match won by how many runs or how many wickets; or draw match

dl_applied: if any dl was applied, indicated by the number

winner: The winning team

win_by_runs: by how many runs did the winning team win

win by wickets: by how many wickets did the winning team win

player of match: the man of the match declared

venue: the name of the stadium where the match was played

umpire1 : Name of the first umpire

umpire2 : Name of the second umpire

umpire3: Name of the third umpire

Creation of the dataset

```
import pandas as pd
df =
pd.read_csv('https://raw.githubusercontent.com/akpythonyt/Datasets/main/matches
.csv')
#sourced the data from -
https://github.com/akpythonyt/Datasets/blob/main/matches.csv
```

Working on the Data

Now we shall modify the data as per the necessity of the work. We shall also remove certain columns in the dataset as they are not of the concern for the present study.

```
import numpy as np
team_uni = np.array(df['team1'].unique())

df = df.drop(columns =
['season','city','date','toss_decision','result','dl_applied','win_by_runs','wi
n_by_wickets','player_of_match','venue','umpire1','umpire2','umpire3'])
#deleted unnecessary columns

#eliminating empty rows for the data
df =df.dropna()
```

The resulting data after dropping the certain columns as seen in the second block and deleting null valued rows, has 5 columns and 762 rows.

The data, after all these modifications; look like

id	team1	team2	toss_winner	winner
1	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Sunrisers Hyderabad
2	Mumbai	Rising Pune	Rising Pune	Rising Pune

	Indians	Supergiant	Supergiant	Supergiant
3	Gujarat Lions	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
4	Rising Pune Supergiant	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
5	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore
6	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
7	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
8	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab
9	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	Delhi Daredevils
10	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	Mumbai Indians
11	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
12	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
13	Rising Pune Supergiant	Gujarat Lions	Gujarat Lions	Gujarat Lions
14	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers Hyderabad	Kolkata Knight Riders
15	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils

16	Gujarat Lions	Mumbai Indians	Mumbai Indians	Mumbai Indians
17	Rising Pune Supergiant	Royal Challengers Bangalore	Royal Challengers Bangalore	Rising Pune Supergiant
18	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders
19	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
20	Royal Challengers Bangalore	Gujarat Lions	Gujarat Lions	Royal Challengers Bangalore
21	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad	Sunrisers Hyderabad
22	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Mumbai Indians
23	Kolkata Knight Riders	Gujarat Lions	Gujarat Lions	Gujarat Lions
24	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
25	Sunrisers Hyderabad	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
26	Kings XI Punjab	Gujarat Lions	Gujarat Lions	Kings XI Punjab
27	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Kolkata Knight Riders
28	Rising Pune Supergiant	Mumbai Indians	Mumbai Indians	Rising Pune Supergiant
29	Rising Pune Supergiant	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

30	Royal Challengers Bangalore	Gujarat Lions	Gujarat Lions	Gujarat Lions
31	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
32	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
33	Rising Pune Supergiant	Royal Challengers Bangalore	Royal Challengers Bangalore	Rising Pune Supergiant
34	Gujarat Lions	Mumbai Indians	Gujarat Lions	Mumbai Indians
35	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
36	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Sunrisers Hyderabad
37	Royal Challengers Bangalore	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians
38	Gujarat Lions	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
39	Sunrisers Hyderabad	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
40	Kolkata Knight Riders	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
41	Gujarat Lions	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
42	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Kings XI Punjab

43	Rising Pune Supergiant	Sunrisers Hyderabad	Sunrisers Hyderabad	Rising Pune Supergiant
44	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
45	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
46	Kings XI Punjab	Gujarat Lions	Gujarat Lions	Gujarat Lions
47	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians	Sunrisers Hyderabad
48	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kings XI Punjab
49	Gujarat Lions	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
50	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
51	Delhi Daredevils	Rising Pune Supergiant	Delhi Daredevils	Delhi Daredevils
52	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
53	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Mumbai Indians
54	Kings XI Punjab	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
55	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore
56	Rising Pune Supergiant	Mumbai Indians	Mumbai Indians	Rising Pune Supergiant

57	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
58	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
59	Mumbai Indians	Rising Pune Supergiant	Mumbai Indians	Mumbai Indians
60	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Kolkata Knight Riders
61	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
62	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils
63	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Royal Challengers Bangalore
64	Deccan Chargers	Kolkata Knight Riders	Deccan Chargers	Kolkata Knight Riders
65	Kings XI Punjab	Rajasthan Royals	Kings XI Punjab	Rajasthan Royals
66	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Delhi Daredevils
67	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Chennai Super Kings
68	Deccan Chargers	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
69	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
70	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals

71	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings
72	Mumbai Indians	Deccan Chargers	Deccan Chargers	Deccan Chargers
73	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils	Kings XI Punjab
74	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings
75	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians
76	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Delhi Daredevils
77	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
78	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals
79	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Delhi Daredevils
80	Deccan Chargers	Royal Challengers Bangalore	Deccan Chargers	Royal Challengers Bangalore
81	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab
82	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
83	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals

84	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
85	Chennai Super Kings	Deccan Chargers	Deccan Chargers	Deccan Chargers
86	Rajasthan Royals	Mumbai Indians	Mumbai Indians	Mumbai Indians
87	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
88	Kolkata Knight Riders	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders
89	Deccan Chargers	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
90	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
91	Chennai Super Kings	Kings XI Punjab	Kings XI Punjab	Chennai Super Kings
92	Kolkata Knight Riders	Deccan Chargers	Kolkata Knight Riders	Kolkata Knight Riders
93	Delhi Daredevils	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
94	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab
95	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders
96	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Mumbai Indians

97	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Kings XI Punjab
98	Delhi Daredevils	Deccan Chargers	Deccan Chargers	Delhi Daredevils
99	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
100	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils	Kings XI Punjab
101	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Rajasthan Royals
102	Mumbai Indians	Deccan Chargers	Deccan Chargers	Mumbai Indians
103	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings
104	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
105	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
106	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
107	Royal Challengers Bangalore	Chennai Super Kings	Royal Challengers Bangalore	Royal Challengers Bangalore
108	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
109	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
110	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals

111	Royal Challengers Bangalore	Deccan Chargers	Deccan Chargers	Royal Challengers Bangalore
112	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders
113	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
114	Deccan Chargers	Chennai Super Kings	Deccan Chargers	Chennai Super Kings
115	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils	Rajasthan Royals
116	Kings XI Punjab	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings
117	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
118	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Mumbai Indians
119	Royal Challengers Bangalore	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore
120	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
121	Kolkata Knight Riders	Deccan Chargers	Kolkata Knight Riders	Deccan Chargers
122	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings
123	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

124	Deccan Chargers	Royal Challengers Bangalore	Deccan Chargers	Deccan Chargers
125	Delhi Daredevils	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils
126	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Rajasthan Royals
127	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab
128	Deccan Chargers	Mumbai Indians	Deccan Chargers	Deccan Chargers
129	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	Delhi Daredevils
130	Kings XI Punjab	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab
131	Chennai Super Kings	Deccan Chargers	Deccan Chargers	Deccan Chargers
132	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians
133	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals
134	Kolkata Knight Riders	Royal Challengers Bangalore	Kolkata Knight Riders	Royal Challengers Bangalore
135	Kings XI Punjab	Mumbai Indians	Kings XI Punjab	Kings XI Punjab
136	Deccan Chargers	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils

137	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Chennai Super Kings
138	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians
139	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore
140	Deccan Chargers	Rajasthan Royals	Deccan Chargers	Rajasthan Royals
141	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils	Chennai Super Kings
142	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab
143	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Royal Challengers Bangalore
144	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	Chennai Super Kings
145	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Rajasthan Royals
146	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils
147	Deccan Chargers	Mumbai Indians	Deccan Chargers	Deccan Chargers
148	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
149	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
150	Mumbai Indians	Delhi Daredevils	Mumbai Indians	Delhi Daredevils

151	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
152	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings
153	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians
154	Kolkata Knight Riders	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
155	Deccan Chargers	Rajasthan Royals	Deccan Chargers	Deccan Chargers
156	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
157	Kings XI Punjab	Mumbai Indians	Kings XI Punjab	Mumbai Indians
158	Delhi Daredevils	Deccan Chargers	Deccan Chargers	Delhi Daredevils
159	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Royal Challengers Bangalore
160	Rajasthan Royals	Mumbai Indians	Rajasthan Royals	Rajasthan Royals
161	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
162	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Chennai Super Kings
163	Kolkata Knight Riders	Deccan Chargers	Deccan Chargers	Deccan Chargers
164	Kings XI Punjab	Deccan Chargers	Deccan Chargers	Kings XI Punjab

165	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils
166	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders
167	Delhi Daredevils	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore
168	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
169	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
170	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
171	Royal Challengers Bangalore	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore
172	Delhi Daredevils	Deccan Chargers	Deccan Chargers	Deccan Chargers
173	Chennai Super Kings	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
174	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore	Deccan Chargers
175	Kolkata Knight Riders	Deccan Chargers	Deccan Chargers	Kolkata Knight Riders
176	Mumbai Indians	Rajasthan Royals	Mumbai Indians	Mumbai Indians
177	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils

178	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
179	Deccan Chargers	Chennai Super Kings	Deccan Chargers	Deccan Chargers
180	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
181	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore
182	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings
183	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
184	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
185	Delhi Daredevils	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings
186	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Deccan Chargers
187	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals
188	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Royal Challengers Bangalore
189	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Deccan Chargers
190	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Kings XI Punjab

191	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians
192	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Royal Challengers Bangalore
193	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Rajasthan Royals
194	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Mumbai Indians
195	Deccan Chargers	Rajasthan Royals	Deccan Chargers	Rajasthan Royals
196	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders
197	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Delhi Daredevils
198	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals
199	Mumbai Indians	Deccan Chargers	Deccan Chargers	Mumbai Indians
200	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils	Delhi Daredevils
201	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Mumbai Indians
202	Royal Challengers Bangalore	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings
203	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils
204	Kolkata Knight Riders	Deccan Chargers	Kolkata Knight Riders	Kolkata Knight Riders

205	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab	Royal Challengers Bangalore
206	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings	Chennai Super Kings
207	Mumbai Indians	Deccan Chargers	Mumbai Indians	Mumbai Indians
208	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab
209	Delhi Daredevils	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils
210	Rajasthan Royals	Deccan Chargers	Rajasthan Royals	Rajasthan Royals
211	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	Chennai Super Kings
212	Kings XI Punjab	Rajasthan Royals	Kings XI Punjab	Rajasthan Royals
213	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders
214	Royal Challengers Bangalore	Deccan Chargers	Deccan Chargers	Deccan Chargers
215	Mumbai Indians	Kings XI Punjab	Mumbai Indians	Kings XI Punjab
216	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	Deccan Chargers
217	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore

218	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils	Kings XI Punjab
219	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Mumbai Indians
220	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore	Deccan Chargers
221	Mumbai Indians	Delhi Daredevils	Mumbai Indians	Mumbai Indians
222	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings
223	Rajasthan Royals	Royal Challengers Bangalore	Rajasthan Royals	Royal Challengers Bangalore
224	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Delhi Daredevils
225	Kings XI Punjab	Deccan Chargers	Deccan Chargers	Deccan Chargers
226	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Mumbai Indians
227	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Kolkata Knight Riders
228	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
229	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Deccan Chargers
230	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders

231	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians
232	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	Chennai Super Kings
233	Deccan Chargers	Royal Challengers Bangalore	Deccan Chargers	Royal Challengers Bangalore
234	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	Chennai Super Kings
235	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings
236	Deccan Chargers	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
237	Kochi Tuskers Kerala	Royal Challengers Bangalore	Kochi Tuskers Kerala	Royal Challengers Bangalore
238	Delhi Daredevils	Mumbai Indians	Delhi Daredevils	Mumbai Indians
239	Kings XI Punjab	Pune Warriors	Kings XI Punjab	Pune Warriors
240	Kolkata Knight Riders	Deccan Chargers	Kolkata Knight Riders	Kolkata Knight Riders
241	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals
242	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
243	Chennai Super Kings	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab

244	Kochi Tuskers Kerala	Pune Warriors	Kochi Tuskers Kerala	Pune Warriors
245	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore	Deccan Chargers
246	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
247	Mumbai Indians	Kochi Tuskers Kerala	Kochi Tuskers Kerala	Kochi Tuskers Kerala
248	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings
249	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
250	Pune Warriors	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
251	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
252	Chennai Super Kings	Kochi Tuskers Kerala	Kochi Tuskers Kerala	Kochi Tuskers Kerala
253	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Deccan Chargers
254	Pune Warriors	Mumbai Indians	Pune Warriors	Mumbai Indians
255	Kochi Tuskers Kerala	Kolkata Knight Riders	Kolkata Knight Riders	Kochi Tuskers Kerala
256	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Kings XI Punjab

257	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Mumbai Indians
258	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
259	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Delhi Daredevils
260	Mumbai Indians	Deccan Chargers	Deccan Chargers	Mumbai Indians
261	Kochi Tuskers Kerala	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
262	Chennai Super Kings	Pune Warriors	Pune Warriors	Chennai Super Kings
263	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
264	Pune Warriors	Chennai Super Kings	Pune Warriors	Chennai Super Kings
265	Deccan Chargers	Kochi Tuskers Kerala	Kochi Tuskers Kerala	Deccan Chargers
266	Kolkata Knight Riders	Delhi Daredevils	Delhi Daredevils	Kolkata Knight Riders
267	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
268	Royal Challengers Bangalore	Pune Warriors	Pune Warriors	Royal Challengers Bangalore
269	Delhi Daredevils	Kochi Tuskers Kerala	Delhi Daredevils	Delhi Daredevils

270	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
271	Pune Warriors	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
272	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	Chennai Super Kings
273	Mumbai Indians	Kings XI Punjab	Kings XI Punjab	Mumbai Indians
274	Delhi Daredevils	Kochi Tuskers Kerala	Kochi Tuskers Kerala	Kochi Tuskers Kerala
275	Kolkata Knight Riders	Deccan Chargers	Deccan Chargers	Kolkata Knight Riders
276	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings
277	Mumbai Indians	Pune Warriors	Pune Warriors	Mumbai Indians
278	Kochi Tuskers Kerala	Kolkata Knight Riders	Kolkata Knight Riders	Kochi Tuskers Kerala
279	Deccan Chargers	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
280	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Royal Challengers Bangalore
281	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders
282	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
283	Kochi Tuskers Kerala	Royal Challengers Bangalore	Kochi Tuskers Kerala	Royal Challengers Bangalore

284	Kings XI Punjab	Pune Warriors	Kings XI Punjab	Pune Warriors
285	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Chennai Super Kings
286	Deccan Chargers	Pune Warriors	Deccan Chargers	Pune Warriors
287	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
288	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
289	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings
290	Kochi Tuskers Kerala	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
291	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
292	Deccan Chargers	Mumbai Indians	Deccan Chargers	Deccan Chargers
293	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Kings XI Punjab
294	Rajasthan Royals	Kochi Tuskers Kerala	Kochi Tuskers Kerala	Kochi Tuskers Kerala
295	Pune Warriors	Deccan Chargers	Deccan Chargers	Deccan Chargers
296	Kings XI Punjab	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab

297	Chennai Super Kings	Kochi Tuskers Kerala	Chennai Super Kings	Chennai Super Kings
298	Pune Warriors	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
299	Mumbai Indians	Rajasthan Royals	Mumbai Indians	Rajasthan Royals
300	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	Deccan Chargers
301	Chennai Super Kings	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
302	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
303	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
304	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
305	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Royal Challengers Bangalore
306	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings
307	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Mumbai Indians
308	Kolkata Knight Riders	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
309	Pune Warriors	Mumbai Indians	Mumbai Indians	Pune Warriors

310	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Rajasthan Royals
311	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Royal Challengers Bangalore
312	Chennai Super Kings	Deccan Chargers	Deccan Chargers	Chennai Super Kings
313	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Rajasthan Royals
314	Pune Warriors	Kings XI Punjab	Pune Warriors	Pune Warriors
315	Deccan Chargers	Mumbai Indians	Deccan Chargers	Mumbai Indians
316	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Kolkata Knight Riders
317	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
318	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Mumbai Indians
319	Royal Challengers Bangalore	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings
320	Pune Warriors	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
321	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Kolkata Knight Riders
322	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Delhi Daredevils
323	Chennai Super Kings	Pune Warriors	Chennai Super Kings	Pune Warriors

324	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kings XI Punjab
325	Rajasthan Royals	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals
326	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
327	Deccan Chargers	Rajasthan Royals	Deccan Chargers	Rajasthan Royals
328	Pune Warriors	Royal Challengers Bangalore	Pune Warriors	Royal Challengers Bangalore
329	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders
330	Deccan Chargers	Delhi Daredevils	Deccan Chargers	Delhi Daredevils
331	Chennai Super Kings	Pune Warriors	Pune Warriors	Chennai Super Kings
332	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
333	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings
334	Pune Warriors	Delhi Daredevils	Delhi Daredevils	Pune Warriors
335	Mumbai Indians	Kings XI Punjab	Mumbai Indians	Kings XI Punjab
336	Deccan Chargers	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

337	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Royal Challengers Bangalore
338	Pune Warriors	Delhi Daredevils	Pune Warriors	Delhi Daredevils
339	Kings XI Punjab	Mumbai Indians	Kings XI Punjab	Mumbai Indians
340	Deccan Chargers	Pune Warriors	Deccan Chargers	Deccan Chargers
341	Delhi Daredevils	Mumbai Indians	Mumbai Indians	Delhi Daredevils
342	Kings XI Punjab	Chennai Super Kings	Kings XI Punjab	Kings XI Punjab
343	Kolkata Knight Riders	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders
344	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils
345	Deccan Chargers	Mumbai Indians	Mumbai Indians	Mumbai Indians
346	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders
347	Deccan Chargers	Pune Warriors	Deccan Chargers	Deccan Chargers
348	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils
349	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
350	Mumbai Indians	Pune Warriors	Mumbai Indians	Mumbai Indians

351	Chennai Super Kings	Deccan Chargers	Chennai Super Kings	Chennai Super Kings
352	Kolkata Knight Riders	Pune Warriors	Kolkata Knight Riders	Kolkata Knight Riders
353	Rajasthan Royals	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals
354	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Mumbai Indians
355	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
356	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders
357	Pune Warriors	Rajasthan Royals	Pune Warriors	Rajasthan Royals
358	Kings XI Punjab	Deccan Chargers	Deccan Chargers	Kings XI Punjab
359	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
360	Rajasthan Royals	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
361	Royal Challengers Bangalore	Pune Warriors	Pune Warriors	Royal Challengers Bangalore
362	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians
363	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
364	Rajasthan Royals	Pune Warriors	Rajasthan Royals	Rajasthan Royals

365	Deccan Chargers	Kings XI Punjab	Deccan Chargers	Kings XI Punjab
366	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
367	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
368	Kings XI Punjab	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils
369	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Kolkata Knight Riders
370	Chennai Super Kings	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
371	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Royal Challengers Bangalore
372	Rajasthan Royals	Deccan Chargers	Rajasthan Royals	Deccan Chargers
373	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
374	Kolkata Knight Riders	Pune Warriors	Kolkata Knight Riders	Kolkata Knight Riders
375	Deccan Chargers	Royal Challengers Bangalore	Royal Challengers Bangalore	Deccan Chargers
376	Rajasthan Royals	Mumbai Indians	Rajasthan Royals	Mumbai Indians
377	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders
378	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Chennai Super Kings

379	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils	Chennai Super Kings
380	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders
381	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
382	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Royal Challengers Bangalore
383	Sunrisers Hyderabad	Pune Warriors	Pune Warriors	Sunrisers Hyderabad
384	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals	Rajasthan Royals
385	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Mumbai Indians
386	Pune Warriors	Kings XI Punjab	Pune Warriors	Kings XI Punjab
387	Royal Challengers Bangalore	Sunrisers Hyderabad	Royal Challengers Bangalore	Sunrisers Hyderabad
388	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Rajasthan Royals
389	Mumbai Indians	Delhi Daredevils	Mumbai Indians	Mumbai Indians
390	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
391	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
392	Rajasthan Royals	Pune Warriors	Rajasthan Royals	Pune Warriors

393	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad
394	Mumbai Indians	Pune Warriors	Mumbai Indians	Mumbai Indians
395	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
396	Kolkata Knight Riders	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders
397	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
398	Pune Warriors	Chennai Super Kings	Pune Warriors	Pune Warriors
399	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kings XI Punjab
400	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
401	Sunrisers Hyderabad	Pune Warriors	Pune Warriors	Sunrisers Hyderabad
402	Rajasthan Royals	Mumbai Indians	Rajasthan Royals	Rajasthan Royals
403	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings
404	Kings XI Punjab	Sunrisers Hyderabad	Kings XI Punjab	Sunrisers Hyderabad
405	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings
406	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore

407	Mumbai Indians	Delhi Daredevils	Mumbai Indians	Delhi Daredevils
408	Pune Warriors	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
409	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings
410	Royal Challengers Bangalore	Pune Warriors	Pune Warriors	Royal Challengers Bangalore
411	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Kings XI Punjab
412	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians
413	Sunrisers Hyderabad	Chennai Super Kings	Sunrisers Hyderabad	Chennai Super Kings
414	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders
415	Sunrisers Hyderabad	Rajasthan Royals	Sunrisers Hyderabad	Rajasthan Royals
416	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians
417	Chennai Super Kings	Kolkata Knight Riders	Kolkata Knight Riders	Chennai Super Kings
418	Delhi Daredevils	Pune Warriors	Pune Warriors	Delhi Daredevils
419	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
420	Mumbai Indians	Kings XI Punjab	Mumbai Indians	Mumbai Indians

421	Chennai Super Kings	Pune Warriors	Chennai Super Kings	Chennai Super Kings
422	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians	Sunrisers Hyderabad
423	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils
424	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
425	Royal Challengers Bangalore	Pune Warriors	Royal Challengers Bangalore	Royal Challengers Bangalore
426	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Kolkata Knight Riders
427	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad
428	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
429	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Mumbai Indians
430	Pune Warriors	Rajasthan Royals	Pune Warriors	Rajasthan Royals
431	Sunrisers Hyderabad	Royal Challengers Bangalore	Sunrisers Hyderabad	Royal Challengers Bangalore
432	Delhi Daredevils	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals
433	Mumbai Indians	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians
434	Chennai Super Kings	Sunrisers Hyderabad	Sunrisers Hyderabad	Chennai Super Kings

435	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
436	Kolkata Knight Riders	Pune Warriors	Kolkata Knight Riders	Kolkata Knight Riders
437	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Royal Challengers Bangalore
438	Pune Warriors	Mumbai Indians	Pune Warriors	Mumbai Indians
439	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
440	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
441	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
442	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
443	Sunrisers Hyderabad	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians
444	Pune Warriors	Kolkata Knight Riders	Kolkata Knight Riders	Pune Warriors
445	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings
446	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Mumbai Indians
447	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
448	Sunrisers Hyderabad	Rajasthan Royals	Sunrisers Hyderabad	Sunrisers Hyderabad

449	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
450	Pune Warriors	Delhi Daredevils	Pune Warriors	Pune Warriors
451	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Royal Challengers Bangalore
452	Kolkata Knight Riders	Sunrisers Hyderabad	Kolkata Knight Riders	Sunrisers Hyderabad
453	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	Chennai Super Kings
454	Sunrisers Hyderabad	Rajasthan Royals	Sunrisers Hyderabad	Rajasthan Royals
455	Rajasthan Royals	Mumbai Indians	Rajasthan Royals	Mumbai Indians
456	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Mumbai Indians
457	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders
458	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
459	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Kings XI Punjab
460	Sunrisers Hyderabad	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
461	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
462	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils

463	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
464	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings
465	Kings XI Punjab	Sunrisers Hyderabad	Sunrisers Hyderabad	Kings XI Punjab
466	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Chennai Super Kings
467	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Kolkata Knight Riders
468	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad	Sunrisers Hyderabad
469	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Chennai Super Kings
470	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
471	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kings XI Punjab
472	Mumbai Indians	Delhi Daredevils	Mumbai Indians	Delhi Daredevils
473	Sunrisers Hyderabad	Chennai Super Kings	Sunrisers Hyderabad	Chennai Super Kings
474	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
475	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals
476	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	Sunrisers Hyderabad

477	Chennai Super Kings	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings
478	Kings XI Punjab	Mumbai Indians	Kings XI Punjab	Mumbai Indians
479	Delhi Daredevils	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
480	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
481	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Rajasthan Royals
482	Delhi Daredevils	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
483	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Mumbai Indians
484	Delhi Daredevils	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders
485	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Kings XI Punjab
486	Sunrisers Hyderabad	Rajasthan Royals	Rajasthan Royals	Sunrisers Hyderabad
487	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Kings XI Punjab
488	Delhi Daredevils	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
489	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
490	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

491	Royal Challengers Bangalore	Rajasthan Royals	Royal Challengers Bangalore	Rajasthan Royals
492	Sunrisers Hyderabad	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians
493	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings
494	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Royal Challengers Bangalore
495	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
496	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
497	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils	Rajasthan Royals
498	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Royal Challengers Bangalore
499	Sunrisers Hyderabad	Kolkata Knight Riders	Sunrisers Hyderabad	Kolkata Knight Riders
500	Mumbai Indians	Rajasthan Royals	Mumbai Indians	Mumbai Indians
501	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
502	Royal Challengers Bangalore	Sunrisers Hyderabad	Royal Challengers Bangalore	Sunrisers Hyderabad
503	Chennai Super Kings	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

504	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Mumbai Indians
505	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Kolkata Knight Riders
506	Chennai Super Kings	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
507	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
508	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Kings XI Punjab
509	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
510	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
511	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
512	Rajasthan Royals	Mumbai Indians	Mumbai Indians	Mumbai Indians
513	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	Kolkata Knight Riders
514	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
515	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Kings XI Punjab
516	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
517	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

518	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils	Chennai Super Kings
519	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Rajasthan Royals
520	Chennai Super Kings	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings
521	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
522	Delhi Daredevils	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
523	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Kings XI Punjab
524	Royal Challengers Bangalore	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
525	Mumbai Indians	Rajasthan Royals	Mumbai Indians	Rajasthan Royals
526	Chennai Super Kings	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
527	Kings XI Punjab	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils
528	Sunrisers Hyderabad	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
529	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Chennai Super Kings
530	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	Delhi Daredevils
531	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders

532	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals
533	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Mumbai Indians
534	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
535	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
536	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Sunrisers Hyderabad
537	Chennai Super Kings	Royal Challengers Bangalore	Royal Challengers Bangalore	Chennai Super Kings
538	Delhi Daredevils	Mumbai Indians	Mumbai Indians	Delhi Daredevils
539	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
540	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians
541	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
542	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
543	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
544	Kolkata Knight Riders	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders

545	Chennai Super Kings	Kolkata Knight Riders	Kolkata Knight Riders	Chennai Super Kings
546	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
547	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Mumbai Indians
548	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
549	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	Sunrisers Hyderabad
550	Mumbai Indians	Kings XI Punjab	Mumbai Indians	Mumbai Indians
551	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils	Rajasthan Royals
552	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings
553	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers Hyderabad	Kolkata Knight Riders
554	Delhi Daredevils	Mumbai Indians	Delhi Daredevils	Mumbai Indians
555	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Royal Challengers Bangalore
556	Sunrisers Hyderabad	Rajasthan Royals	Rajasthan Royals	Sunrisers Hyderabad
557	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	Mumbai Indians
558	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	Kolkata Knight Riders

559	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad	Sunrisers Hyderabad
560	Royal Challengers Bangalore	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore
561	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings	Chennai Super Kings
562	Sunrisers Hyderabad	Kings XI Punjab	Sunrisers Hyderabad	Sunrisers Hyderabad
563	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	Delhi Daredevils
564	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Kings XI Punjab
565	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Mumbai Indians
566	Sunrisers Hyderabad	Royal Challengers Bangalore	Sunrisers Hyderabad	Royal Challengers Bangalore
567	Kings XI Punjab	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings
568	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals
569	Sunrisers Hyderabad	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians
570	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Mumbai Indians
571	Royal Challengers Bangalore	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore

572	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
573	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Mumbai Indians
574	Mumbai Indians	Rising Pune Supergiant	Mumbai Indians	Rising Pune Supergiant
575	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
576	Kings XI Punjab	Gujarat Lions	Gujarat Lions	Gujarat Lions
577	Royal Challengers Bangalore	Sunrisers Hyderabad	Sunrisers Hyderabad	Royal Challengers Bangalore
578	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
579	Rising Pune Supergiant	Gujarat Lions	Rising Pune Supergiant	Gujarat Lions
580	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
581	Sunrisers Hyderabad	Kolkata Knight Riders	Sunrisers Hyderabad	Kolkata Knight Riders
582	Mumbai Indians	Gujarat Lions	Gujarat Lions	Gujarat Lions
583	Rising Pune Supergiant	Kings XI Punjab	Rising Pune Supergiant	Kings XI Punjab
584	Royal Challengers Bangalore	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
585	Mumbai Indians	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad

586	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
587	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
588	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
589	Royal Challengers Bangalore	Rising Pune Supergiant	Rising Pune Supergiant	Royal Challengers Bangalore
590	Delhi Daredevils	Mumbai Indians	Mumbai Indians	Delhi Daredevils
591	Kings XI Punjab	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
592	Royal Challengers Bangalore	Gujarat Lions	Royal Challengers Bangalore	Gujarat Lions
593	Rising Pune Supergiant	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
594	Mumbai Indians	Kings XI Punjab	Kings XI Punjab	Mumbai Indians
595	Sunrisers Hyderabad	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
596	Gujarat Lions	Delhi Daredevils	Delhi Daredevils	Gujarat Lions
597	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
598	Rising Pune Supergiant	Gujarat Lions	Gujarat Lions	Gujarat Lions
599	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Delhi Daredevils

600	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Sunrisers Hyderabad
601	Kings XI Punjab	Gujarat Lions	Gujarat Lions	Kings XI Punjab
602	Rising Pune Supergiant	Mumbai Indians	Mumbai Indians	Mumbai Indians
603	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
604	Gujarat Lions	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
605	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	Kolkata Knight Riders
606	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
607	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
608	Rising Pune Supergiant	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
609	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Kings XI Punjab
610	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	Sunrisers Hyderabad
611	Kolkata Knight Riders	Gujarat Lions	Gujarat Lions	Gujarat Lions
612	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Royal Challengers Bangalore

613	Sunrisers Hyderabad	Rising Pune Supergiant	Sunrisers Hyderabad	Sunrisers Hyderabad
614	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
615	Sunrisers Hyderabad	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
616	Mumbai Indians	Kings XI Punjab	Mumbai Indians	Kings XI Punjab
617	Royal Challengers Bangalore	Gujarat Lions	Gujarat Lions	Royal Challengers Bangalore
618	Rising Pune Supergiant	Kolkata Knight Riders	Rising Pune Supergiant	Kolkata Knight Riders
619	Kings XI Punjab	Sunrisers Hyderabad	Kings XI Punjab	Sunrisers Hyderabad
620	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Mumbai Indians
621	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
622	Delhi Daredevils	Rising Pune Supergiant	Rising Pune Supergiant	Rising Pune Supergiant
623	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Royal Challengers Bangalore
624	Kolkata Knight Riders	Gujarat Lions	Gujarat Lions	Gujarat Lions
625	Sunrisers Hyderabad	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils

626	Kings XI Punjab	Rising Pune Supergiant	Kings XI Punjab	Rising Pune Supergiant
627	Mumbai Indians	Gujarat Lions	Gujarat Lions	Gujarat Lions
628	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers Hyderabad	Kolkata Knight Riders
629	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
630	Gujarat Lions	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
631	Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Sunrisers Hyderabad
632	Gujarat Lions	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
633	Sunrisers Hyderabad	Royal Challengers Bangalore	Sunrisers Hyderabad	Sunrisers Hyderabad
634	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
635	Delhi Daredevils	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
636	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
637	Rajasthan Royals	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
638	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings

639	Rajasthan Royals	Delhi Daredevils	Delhi Daredevils	Rajasthan Royals
640	Mumbai Indians	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
641	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
642	Mumbai Indians	Delhi Daredevils	Delhi Daredevils	Delhi Daredevils
643	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
644	Rajasthan Royals	Royal Challengers Bangalore	Royal Challengers Bangalore	Rajasthan Royals
645	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings	Kings XI Punjab
646	Kolkata Knight Riders	Delhi Daredevils	Delhi Daredevils	Kolkata Knight Riders
647	Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Mumbai Indians
648	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
649	Kings XI Punjab	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab
650	Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Chennai Super Kings
651	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab

652	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
653	Chennai Super Kings	Sunrisers Hyderabad	Sunrisers Hyderabad	Chennai Super Kings
654	Mumbai Indians	Rajasthan Royals	Mumbai Indians	Rajasthan Royals
655	Kings XI Punjab	Delhi Daredevils	Delhi Daredevils	Kings XI Punjab
656	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians	Sunrisers Hyderabad
657	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
658	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
659	Delhi Daredevils	Kolkata Knight Riders	Kolkata Knight Riders	Delhi Daredevils
660	Chennai Super Kings	Mumbai Indians	Mumbai Indians	Mumbai Indians
661	Sunrisers Hyderabad	Rajasthan Royals	Sunrisers Hyderabad	Sunrisers Hyderabad
662	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
663	Chennai Super Kings	Delhi Daredevils	Delhi Daredevils	Chennai Super Kings
664	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Royal Challengers Bangalore

665	Delhi Daredevils	Rajasthan Royals	Rajasthan Royals	Delhi Daredevils
666	Chennai Super Kings	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
667	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Mumbai Indians
668	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
669	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad
670	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Mumbai Indians
671	Rajasthan Royals	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
672	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Sunrisers Hyderabad
673	Rajasthan Royals	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals
674	Mumbai Indians	Kolkata Knight Riders	Kolkata Knight Riders	Mumbai Indians
675	Delhi Daredevils	Sunrisers Hyderabad	Delhi Daredevils	Sunrisers Hyderabad
676	Chennai Super Kings	Rajasthan Royals	Chennai Super Kings	Rajasthan Royals
677	Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	Kolkata Knight Riders
678	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore

680 Mumbai Rajasthan Rajasthan Royals Rajasthan Royals Indians Royals	
Kings XI Royal Royal Challengers Royal Challengers Punjab Challengers Bangalore Bangalore	
Rajasthan Kolkata Knight Kolkata Knight Kolkata Knight Riders Riders	ers
683 Mumbai Kings XI Kings XI Punjab Mumbai Indians Indians Punjab	
Royal Sunrisers Sunrisers Royal Challengers Challengers Hyderabad Hyderabad Bangalore Bangalore	
Delhi Chennai Super Chennai Super Delhi Daredevils Daredevils Kings Kings	
Royals Rajasthan Royal Rajasthan Royals Rajasthan Royals Royals Challengers Bangalore	
687 Sunrisers Kolkata Knight Sunrisers Kolkata Knight Rid Hyderabad Riders Hyderabad	ers
Delhi Mumbai Delhi Daredevils Delhi Daredevils Daredevils Indians	
689 Kings XI Chennai Super Chennai Super Chennai Super Kings Punjab Kings Kings	gs
690 Sunrisers Chennai Super Chennai Super Chennai Super Kings Kings	gs
691 Kolkata Rajasthan Rajasthan Royals Kolkata Knight Rid Knight Riders Royals	ers
692 Sunrisers Kolkata Knight Kolkata Knight Sunrisers Hyderaba Hyderabad Riders Riders	ıd

Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
Sunrisers Hyderabad	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
Delhi Capitals	Mumbai Indians	Mumbai Indians	Delhi Capitals
Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Kings XI Punjab
Delhi Capitals	Chennai Super Kings	Delhi Capitals	Chennai Super Kings
Kolkata Knight Riders	Kings XI Punjab	Kings XI Punjab	Kolkata Knight Riders
Mumbai Indians	Royal Challengers Bangalore	Royal Challengers Bangalore	Mumbai Indians
Rajasthan Royals	Sunrisers Hyderabad	Rajasthan Royals	Sunrisers Hyderabad
Mumbai Indians	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
Kolkata Knight Riders	Delhi Capitals	Delhi Capitals	Delhi Capitals
Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Sunrisers Hyderabad
Chennai Super Kings	Rajasthan Royals	Rajasthan Royals	Chennai Super Kings
Kings XI Punjab	Delhi Capitals	Delhi Capitals	Kings XI Punjab
	Royal Challengers Bangalore Sunrisers Hyderabad Delhi Capitals Kings XI Punjab Delhi Capitals Kolkata Knight Riders Mumbai Indians Rajasthan Royals Mumbai Indians Kolkata Knight Riders Mumbai Indians Chennai Super Kings Kings XI	Royal Challengers Bangalore Sunrisers Hyderabad Sunrisers Hyderabad Capitals Kings XI Punjab Royals Kolkata Knight Riders Koyal Indians Kings XI Punjab Koyal Challengers Bangalore Rajasthan Royals Kings XI Punjab Kolkata Kings XI Indians Kings XI Punjab Kolkata Challengers Bangalore Rajasthan Royals Kings XI Indians Kings XI Indians Kings XI Indians Kings XI Indians Kolkata Knight Riders Sunrisers Hyderabad Challengers Bangalore Challengers Bangalore Challengers Bangalore Challengers Bangalore Challengers Bangalore	HyderabadKingsKingsRoyal Challengers BangaloreChennai Super KingsChennai Super KingsSunrisers HyderabadKolkata Knight RidersKolkata Knight RidersDelhi CapitalsMumbai IndiansMumbai IndiansKings XI PunjabRajasthan RoyalsRajasthan RoyalsDelhi CapitalsChennai Super KingsDelhi CapitalsKolkata Knight RidersKings XI PunjabKings XI PunjabMumbai IndiansRoyal Challengers BangaloreRoyal Challengers BangaloreRajasthan RoyalsSunrisers HyderabadRajasthan RoyalsKolkata Knight RidersDelhi CapitalsKings XI PunjabKolkata Knight RidersDelhi CapitalsDelhi CapitalsSunrisers HyderabadRoyal Challengers BangaloreRoyal Challengers BangaloreChennai Super KingsRajasthan RoyalsRajasthan RoyalsKings XIDelhi Capitals

707	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
708	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Mumbai Indians
709	Delhi Capitals	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
710	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
711	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	Chennai Super Kings
712	Mumbai Indians	Sunrisers Hyderabad	Sunrisers Hyderabad	Mumbai Indians
713	Royal Challengers Bangalore	Delhi Capitals	Delhi Capitals	Delhi Capitals
714	Rajasthan Royals	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
715	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab
716	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
717	Kings XI Punjab	Mumbai Indians	Mumbai Indians	Mumbai Indians
718	Rajasthan Royals	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
719	Kolkata Knight Riders	Delhi Capitals	Delhi Capitals	Delhi Capitals
720	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals

721	Kings XI Punjab	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
722	Kolkata Knight Riders	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
723	Delhi Capitals	Sunrisers Hyderabad	Sunrisers Hyderabad	Delhi Capitals
724	Royal Challengers Bangalore	Mumbai Indians	Mumbai Indians	Mumbai Indians
725	Kings XI Punjab	Rajasthan Royals	Rajasthan Royals	Kings XI Punjab
726	Chennai Super Kings	Sunrisers Hyderabad	Chennai Super Kings	Sunrisers Hyderabad
727	Mumbai Indians	Delhi Capitals	Mumbai Indians	Mumbai Indians
728	Royal Challengers Bangalore	Kolkata Knight Riders	Kolkata Knight Riders	Royal Challengers Bangalore
729	Mumbai Indians	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
730	Kings XI Punjab	Delhi Capitals	Delhi Capitals	Delhi Capitals
731	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers Hyderabad	Sunrisers Hyderabad
732	Royal Challengers Bangalore	Chennai Super Kings	Chennai Super Kings	Royal Challengers Bangalore
733	Rajasthan Royals	Delhi Capitals	Delhi Capitals	Delhi Capitals

734	Sunrisers Hyderabad	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
735	Royal Challengers Bangalore	Kings XI Punjab	Kings XI Punjab	Royal Challengers Bangalore
736	Kolkata Knight Riders	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
737	Mumbai Indians	Chennai Super Kings	Chennai Super Kings	Mumbai Indians
738	Sunrisers Hyderabad	Rajasthan Royals	Rajasthan Royals	Rajasthan Royals
739	Delhi Capitals	Royal Challengers Bangalore	Delhi Capitals	Delhi Capitals
740	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Kolkata Knight Riders
741	Sunrisers Hyderabad	Kings XI Punjab	Kings XI Punjab	Sunrisers Hyderabad
742	Chennai Super Kings	Delhi Capitals	Delhi Capitals	Chennai Super Kings
743	Mumbai Indians	Sunrisers Hyderabad	Mumbai Indians	Mumbai Indians
744	Kings XI Punjab	Kolkata Knight Riders	Kolkata Knight Riders	Kolkata Knight Riders
745	Rajasthan Royals	Delhi Capitals	Rajasthan Royals	Delhi Capitals
746	Sunrisers Hyderabad	Royal Challengers Bangalore	Royal Challengers Bangalore	Royal Challengers Bangalore
747	Chennai Super Kings	Kings XI Punjab	Kings XI Punjab	Kings XI Punjab

748	Kolkata Knight Riders	Mumbai Indians	Mumbai Indians	Mumbai Indians
749	Chennai Super Kings	Mumbai Indians	Chennai Super Kings	Mumbai Indians
750	Sunrisers Hyderabad	Delhi Capitals	Delhi Capitals	Delhi Capitals
751	Delhi Capitals	Chennai Super Kings	Chennai Super Kings	Chennai Super Kings
752	Mumbai Indians	Chennai Super Kings	Mumbai Indians	Mumbai Indians

Now we work on putting mathematical values to data, since there are 14 unique teams that could be found, so we number the various teams like that and modify the values and put them in a new dataframe

Team name	Number assigned
Sunrisers Hyderabad	0
Mumbai Indians	1
Gujarat Lions	2
Rising Pune Supergiant	3
Royal Challengers Bangalore	4
Kolkata Knight Riders	5
Delhi Daredevils	6
Kings XI Punjab	7
Chennai Super Kings	8
Rajasthan Royals	9

Deccan Chargers	10
Kochi Tuskers Kerala	11
Pune Warriors	12
Delhi Capitals	13

```
t1 = np.array(df['team1'].values)
t2 = np.array(df['team2'].values)
t_win = np.array(df['toss_winner'].values)
win = np.array(df['winner'].values)

#team_uni contains the names of the teams uniquely
for i in range(752):
    for j in range(14):
        if t1[i] == team_uni[j]:
            t1[i] = j
        if t2[i] == team_uni[j]:
            t2[i] = j
        if t_win[i] == team_uni[j]:
            t_win[i] == team_uni[j]:
            win[i] == team_uni[j]:
            win[i] == team_uni[j]:
            win[i] == team_uni[j]:
            win[i] = j
```

Other than this, a new column, **Pred** is created which stores values as follows

Туре	Value assigned
Toss winner won the match	1
Toss winner did not win the match	0

```
arr_res = []
for i in range(752):
    if t_win[i] == win[i]:
        arr_res.append([t1[i],t2[i],t_win[i],win[i],1])
    else:
        arr_res.append([t1[i],t2[i],t_win[i],win[i],0])
arr_res
```

```
df2 = pd.DataFrame(columns =
['Team1','Team2','Toss_winner','Match_winner','Pred'],data =arr_res)
```

df2 contains the same data as df, but with the mathematical substitution as mentioned in the table above. Now we make the input column for the clusterer.

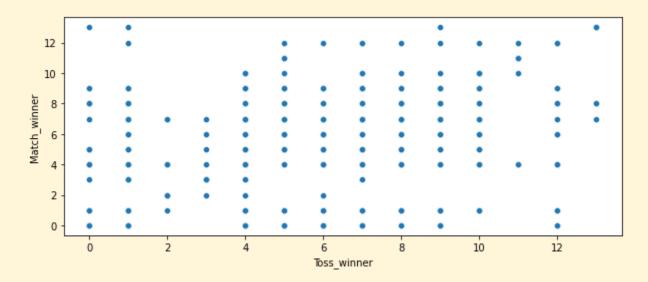
```
x=df2.iloc[:,2:4].values #input
```

Here, we have decided to have two clusters, toss won as well as match won, toss won but match not won. So we are not applying any elbow and silhouette scoring method to find the best possible number of clusters.

However, before applying our clusterer, we would make an attempt to visualise our data.

```
#initial visualisation, before clustering
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize = (10,4))
sns.scatterplot(df2['Toss_winner'],df2['Match_winner'])
```

Its output was yielded as



Now we dive straight into application of the K-Means clustering.

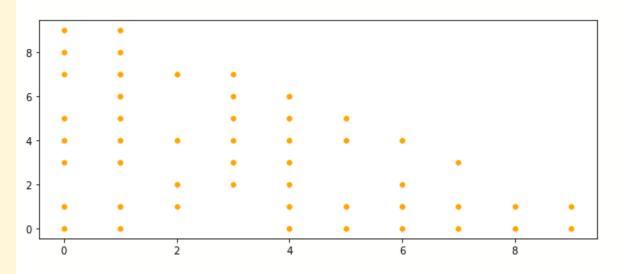
```
#Here I fix the number of clusters to be 2
#now I use clusterer
from sklearn.cluster import KMeans
```

```
model = KMeans(n_clusters = 2, random_state = 0) # there are two clusters,
toss won and match won, toss won and match lost
model.fit(x)
y=model.predict(x) #output
```

Now that we have the output in hand, we would visualise how things are

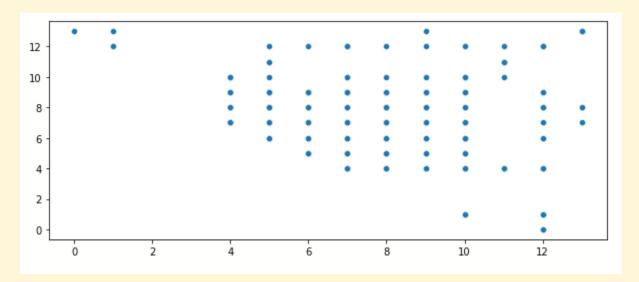
```
#visualisation
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize = (10,4))
for i in range(1,2):
   sns.scatterplot(x[y==i,0],x[y == i,1],color='orange')
```

Here I try to visualise the matches where the toss winner won the match using orange colour.



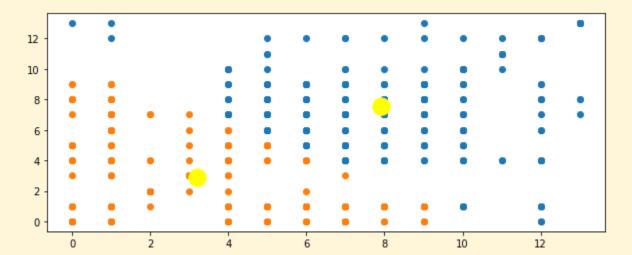
Now, I try to visualise the matches where the toss winner did not win the match using deep blue colour.

```
#visualisation
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize = (10,4))
for i in range(0,2,2):
    sns.scatterplot(x[y==i,0],x[y == i,1])
```



Now we are in a position to visualise the entire data in two clusters, as follows. We shall also mark their centroids with yellow dots.

```
import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize = (10,4))
for i in range(2):
   plt.scatter(x[y==i,0],x[y == i,1],label = f'Cluster {i}')
plt.scatter(model.cluster_centers_[:,0],model.cluster_centers_[:,1],s= 300,c = 'yellow',label ='centroids')
```



From this graph, we can clearly see that we can distinguish the two clusters by using a straight line, which is left to the visual realisation of the reader. The centroids marked are for conveniently observing the centres of the clusters.

Link to my GitHub account for referring to the code of this project

https://github.com/shibangshu-pal/DataScienceCourse-Major-Project-2

Google Colab Notebook link for accessing the code

https://colab.research.google.com/drive/1L4 tNzWKeyT4JP De19ZUmyXwoWD8BD7?usp=sharing

This is a view only link. Please request for any edit.

Inference and conclusive remarks

When we start to visualise the clustered data, we can see the centroids of the datas classified by K-Means. And from the applied classification, it was seen that contrary to the popular saying, it might not be the fact that the toss winner becomes the match winner. Rather, our data seemed to point that rather the contrary is true in this case. However, such a conclusion is not absolute, neither the data set we have here is exhaustive. It is always possible for a bigger set of data the clusters come up in a different way, justifying the popular belief. So from this, it was not possible to clearly come to any direct correlation between the toss winning by a certain team and the match being won by them.

However, it is to be noted that such a K-means clustering project can be a prototype for a larger scale project considering more intricate factors and larger dataset for coming to accurate conclusions.