

Data Mining Lab Course

Cricket Group

Presentation of progress in week 3

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Work in progress

- Parsing player profiles, crawl more information of the **player** from **ESPN Cricinfo** for further information such as, batting style, bowling style, batting and fielding averages, and bowling averages.
- Getting to know more about data mining tools
 - **Tableau(software)**
 - RapidMiner
 - R Language
 - **Microsoft Excel**
 - Waikato Environment for Knowledge Analysis (WEKA)

What we have done so far...(1)

- Parsing all 2,470 matches including ball by ball data in to two csv files
 - Matches information and meta data
 - Such as dates, city, venue, match type, teams, winner, score, and etc.
 - Innings (ball-by-ball) information
 - 957,000 records of ball by ball information
 - Batsman, bowler, non striker, runs and wicket score

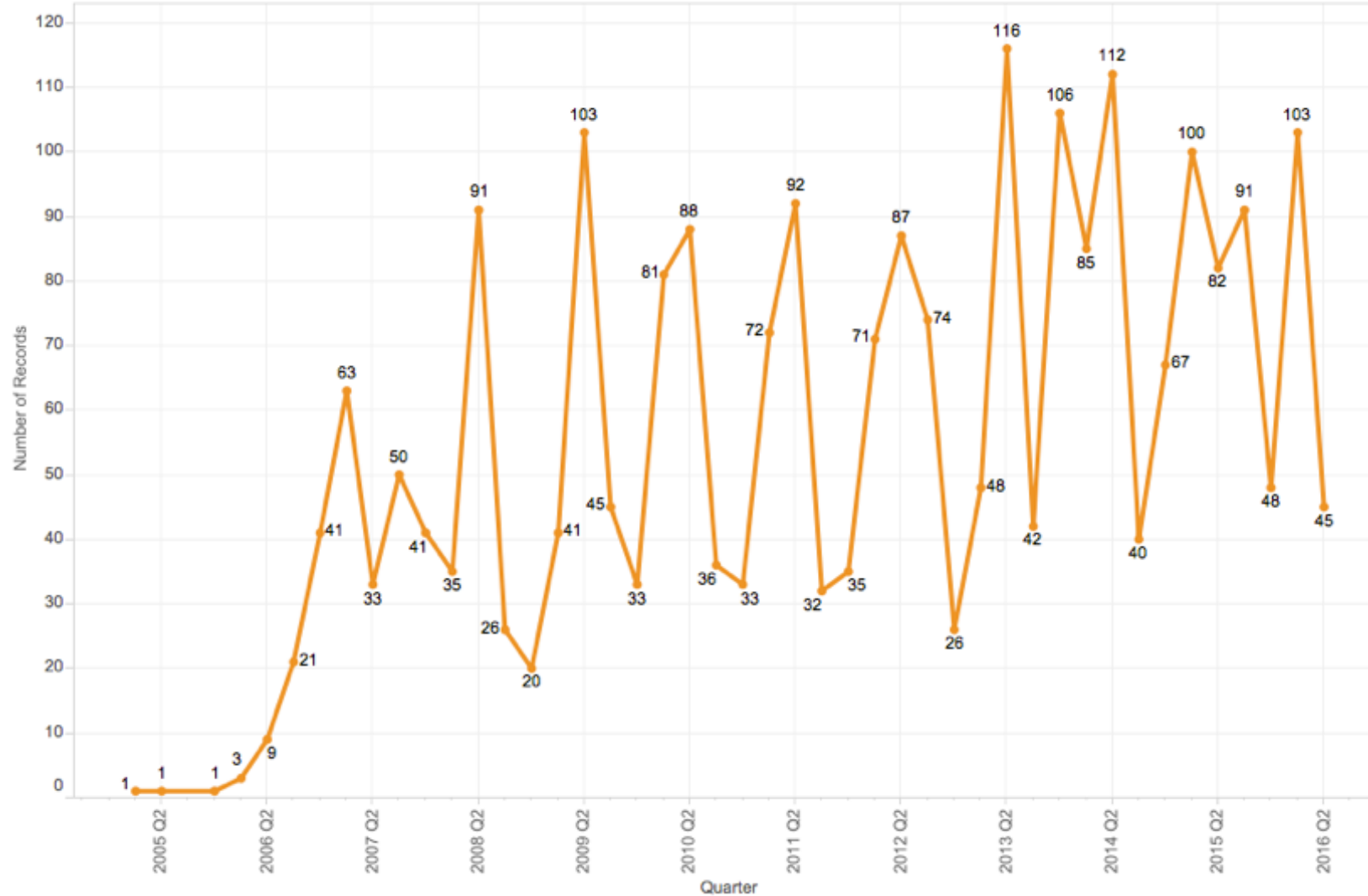
What we have done so far...(2)

- Using both Microsoft Excel and Tableau to visualize some data and information...
- First section: the information about the match
 - Date Occurrence
 - Venue and City
 - Match Type
 - Team appearance
 - **Histogram of wicket and run score**
 - **Number of match(es) win**
 - Toss Decision, match outcome of the team who win the toss, percentage of toss win

Figure 1

- Date occurrence

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Skip

- Figure 2 to 5 and 9
- They are not that much informative
- If you are still interested, please take a look in our Wiki.

Figure 6

- Histogram of win by run scores

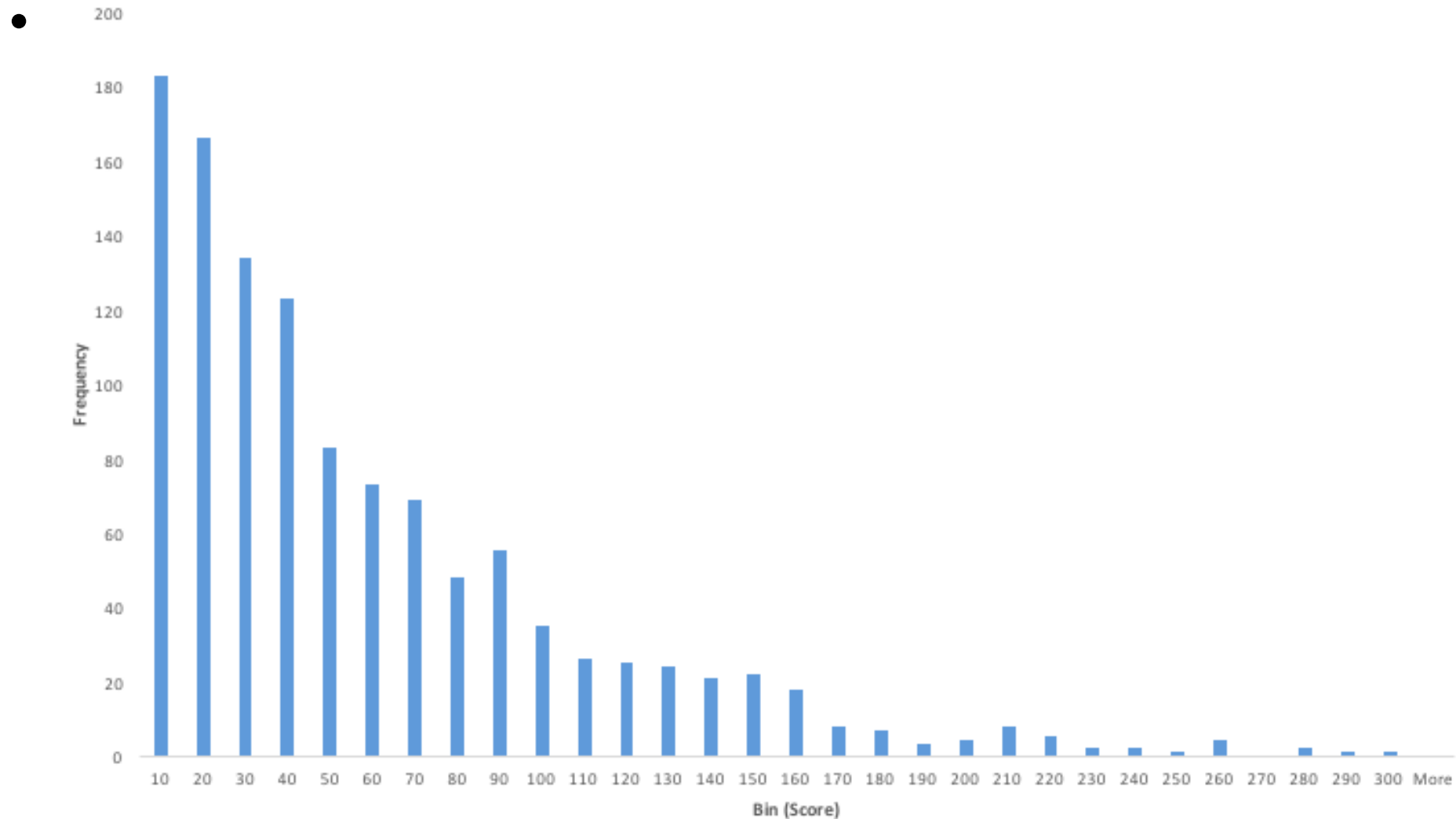


Figure 7

- Histogram of win by wicket scores

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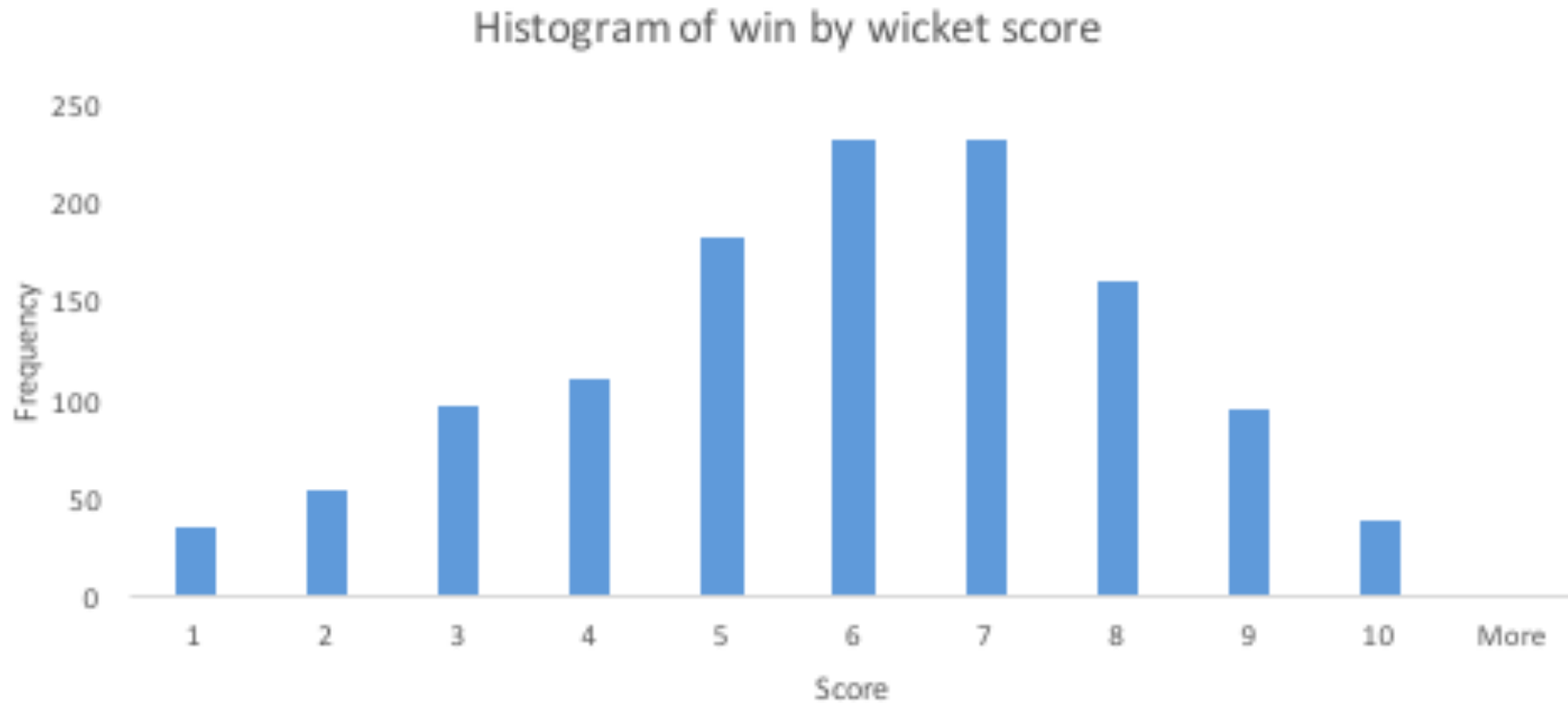
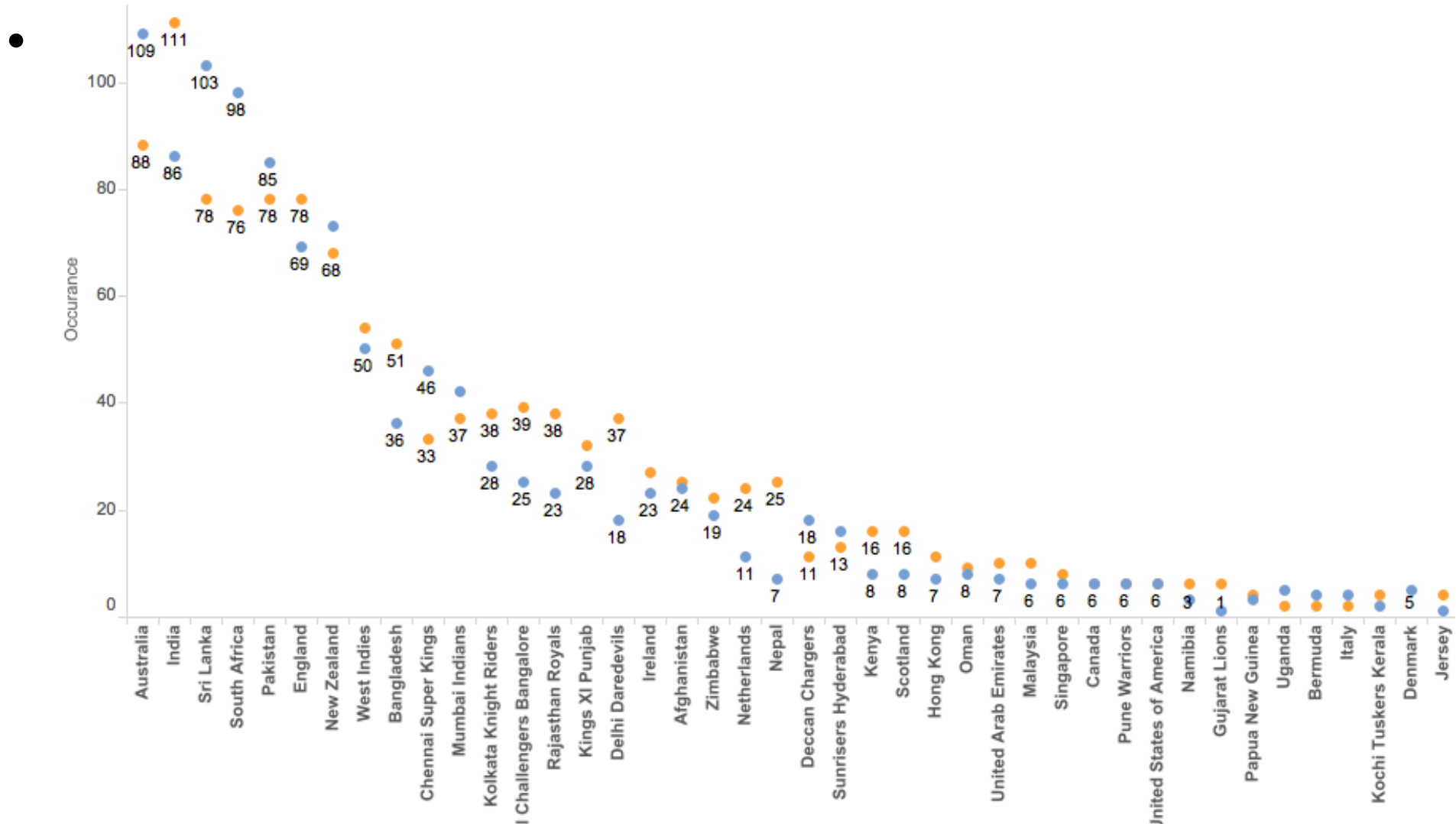


Figure 8

- Amount of win from each team (ORANGE: win by wickets, BLUE: win by runs)



Conclusion from figure 6-8b

- Now we know that...
 - They are two type of winning in the cricket matches
 - **By run** 1153 matches
 - **By wicket** 1128 matches
 - Only few of the matches they do not have any winner
 - **Each team has a different boldness (for example)**
 - Australia mostly win by runs
 - India mostly win by wickets
 - Most of the team win by wickets

What we have done so far...(3)

- Second section: by-ball-ball innings information
 - **Amounts of Face-offs between a specific bowler and batsman**
 - **Runs scored against a bowler by a specific batsman**
 - **Average amount of runs of a specific batsman against a specific bowler**

Figure 10

- Amounts of Face-offs between a specific bowler and batsman

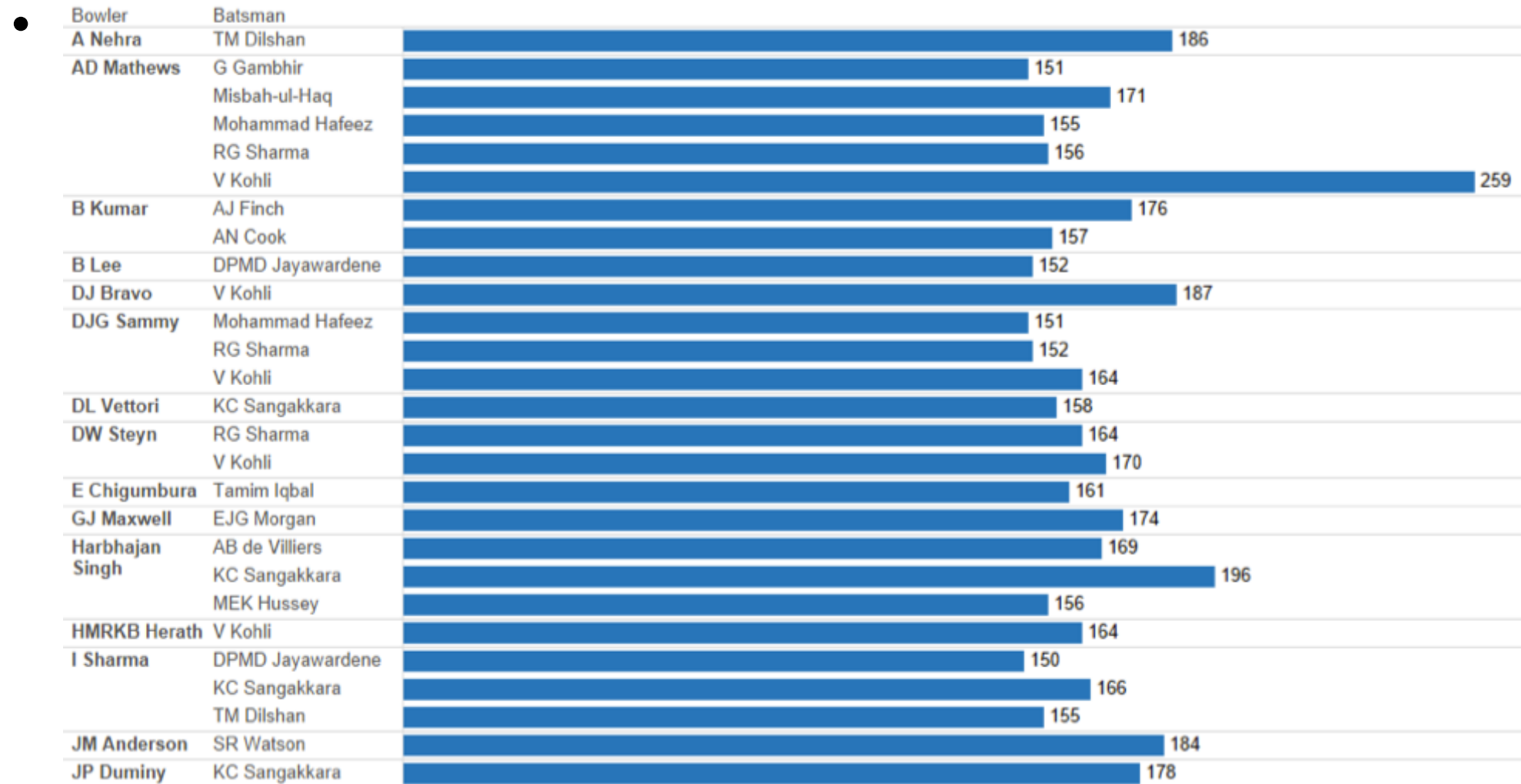


Figure 11

- Runs scored against a bowler by a specific batsman

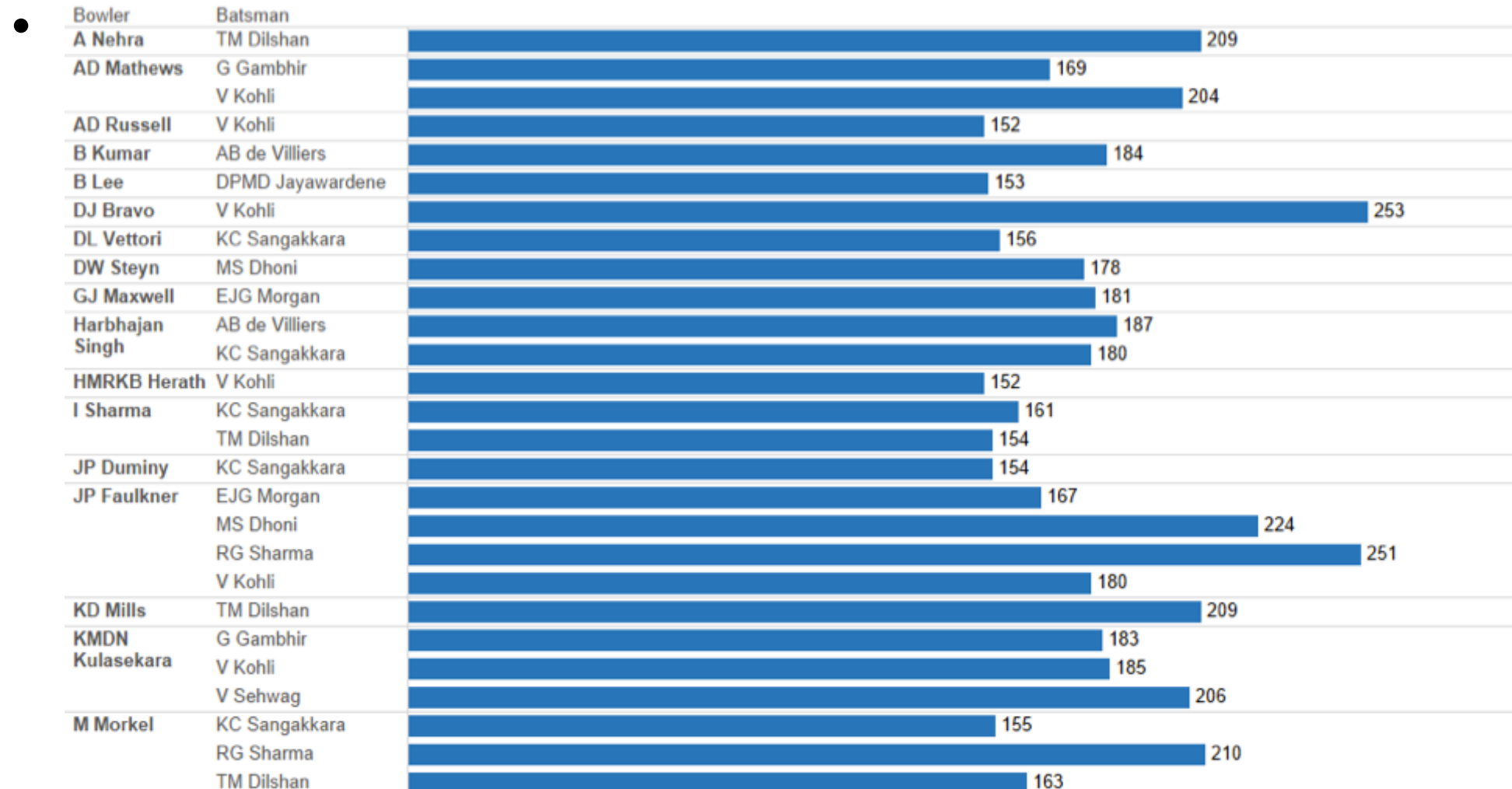


Figure 12

- Average amount of runs of a specific batsman against a specific

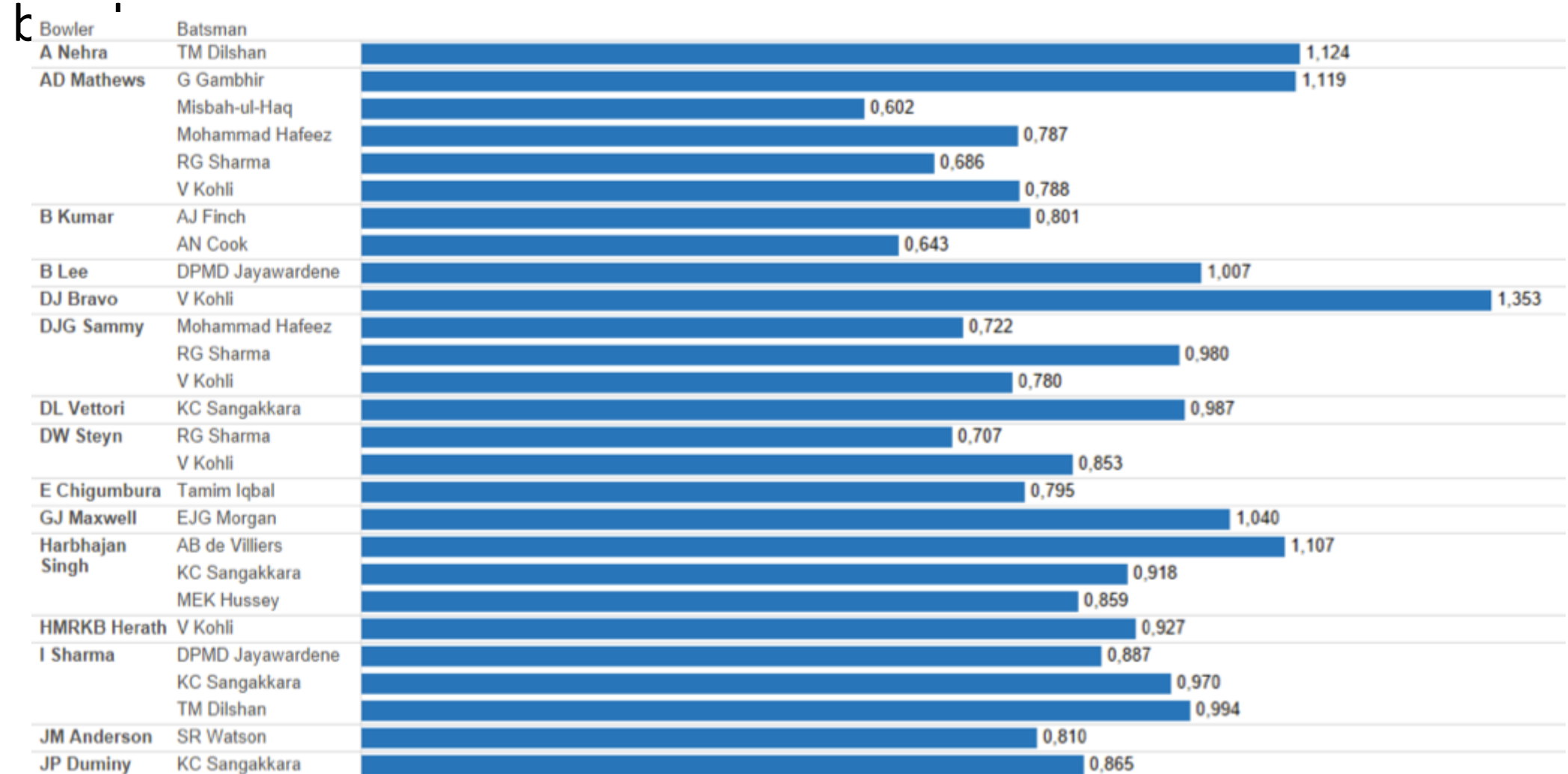
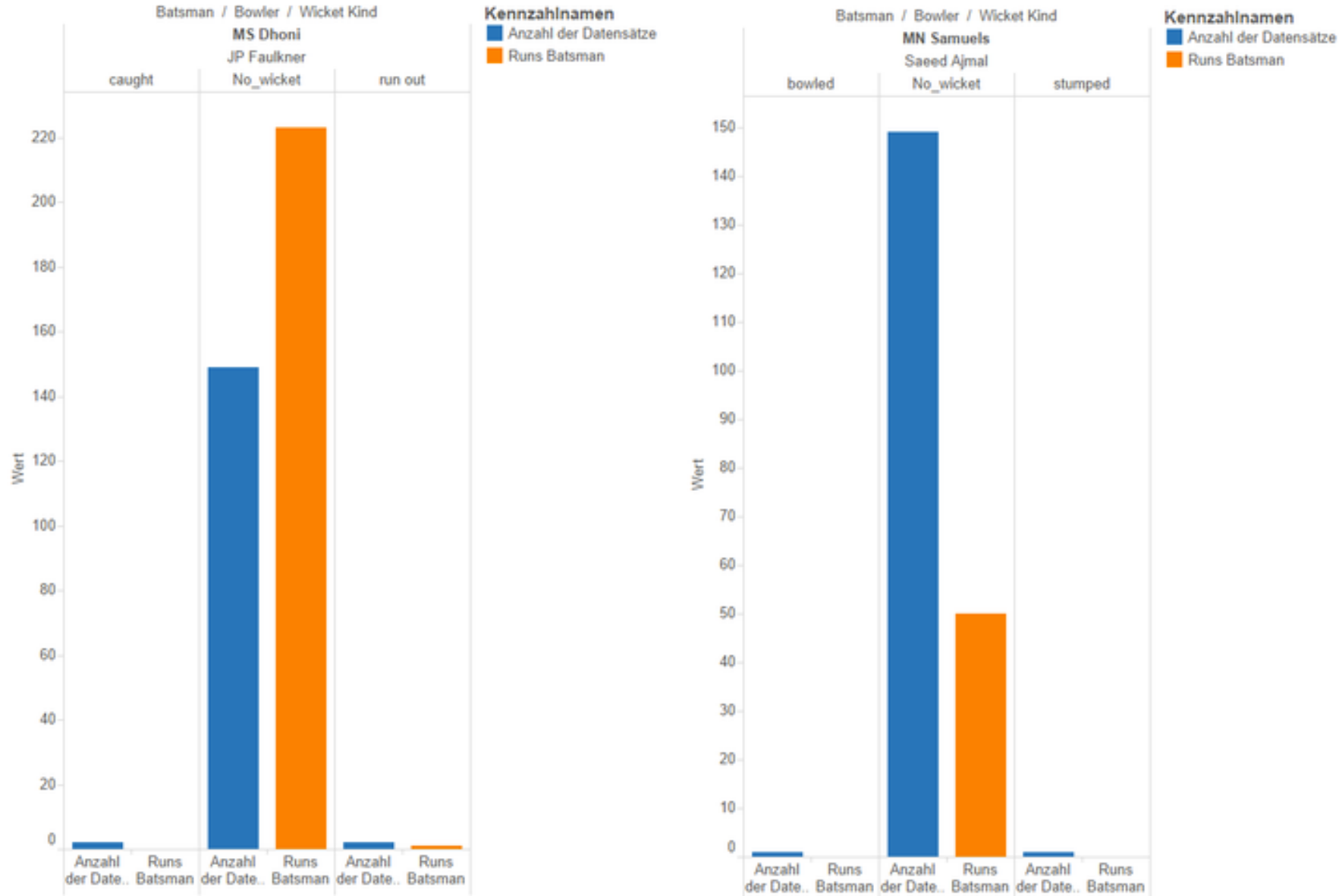


Figure 13 a&b



Conclusion from figure 10-13b

- What we can...
 - Evaluate and visualize specific face-offs between a bowler and a batsman
 - Make statements about the performance of the players as we can sum up all runs ever scored by a batsman against each bowler
 - Compute an average of runs against each opponent
 - Have a closer look at the player pairings that have the highest and the lowest run average.
 - In fact, the pairing between MS Dhoni and JP Faulkner has been historical as there has been a new world record set up [[link](#)]
 - **Evaluations like this can be easily created for any pairing. The information we gather cannot yet be found in popular cricket statistic web sites.**

Feedback for Team 3 :Food Inspection Dataset

- ❖ Clear and detailed description of work.. Good Work, keep it up.

- ❖ **Year wise inspection Result**

 - Normalized data for 2016, would have been good.

- ❖ **Brand wise Inspection Result Analysis:**

 - Interesting Results bit little bit confused about the statement “Dunkin Donuts has more outlets but they has fewer failed inspections than Mc Donalds” because I can see from given figure that Dunkin Donuts has less no of inspections.

- ❖ **Visualizations of "Inspection Result" history based on location :**

 - really love the idea to show all details based on location and make it more interactive. Love to know more description about how you did it.