

# POWER BI PROJECT

ICC Cricket World Cup 2023 Analysis



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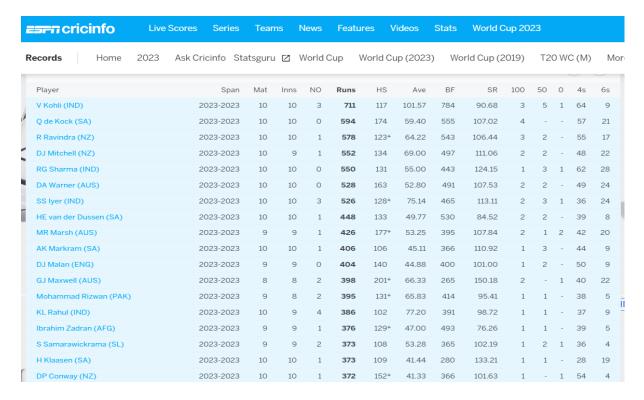
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#### **Problem Statement:**

In this project I Created a Power BI Dashboard analysing the ICC cricket world Cup 2022 tournament.

#### Data source:

Got all the data regarding match and world cup from <a href="www.espncricinfo.com">www.espncricinfo.com</a>.

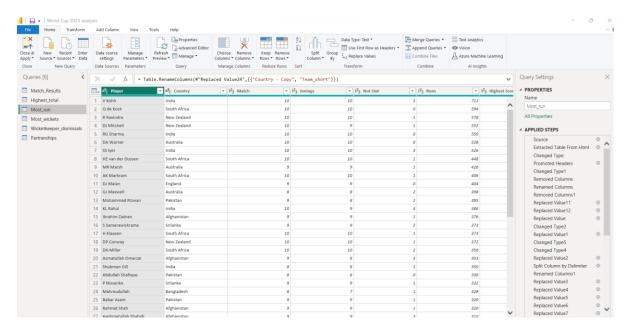


#### Links-

- https://www.espncricinfo.com/records/tournament/team-match-results/icc-cricket-world-cup-2023-24-15338
- 2. <a href="https://www.espncricinfo.com/records/tournament/team-highest-innings-totals/icc-cricket-world-cup-2023-24-15338">https://www.espncricinfo.com/records/tournament/team-highest-innings-totals/icc-cricket-world-cup-2023-24-15338</a>
- 3. <a href="https://www.espncricinfo.com/records/tournament/batting-most-runs-career/icc-cricket-world-cup-2023-24-15338">https://www.espncricinfo.com/records/tournament/batting-most-runs-career/icc-cricket-world-cup-2023-24-15338</a>
- 4. <a href="https://www.espncricinfo.com/records/tournament/bowling-most-wickets-career/icc-cricket-world-cup-2023-24-15338">https://www.espncricinfo.com/records/tournament/bowling-most-wickets-career/icc-cricket-world-cup-2023-24-15338</a>
- 5. <a href="https://www.espncricinfo.com/records/tournament/keeping-most-dismissals-career/icc-cricket-world-cup-2023-24-15338">https://www.espncricinfo.com/records/tournament/keeping-most-dismissals-career/icc-cricket-world-cup-2023-24-15338</a>
- 6. <a href="https://www.espncricinfo.com/records/tournament/fow-highest-partnerships-for-any-wicket/icc-cricket-world-cup-2023-24-15338">https://www.espncricinfo.com/records/tournament/fow-highest-partnerships-for-any-wicket/icc-cricket-world-cup-2023-24-15338</a>

#### **Data Transformation:**

Performed initial data cleaning after Data Collection such as player name correction, handle missing value, replaced values, change data type etc. using Power Query. Transformed the final data for dashboard using Power Query of Power BI.



#### **Data Modelling:**

Connected all the datasets with based on some defined primary keys such as team, match date and match ids. Also, created many measures, calculated columns and parameters for data analysis and dash boarding using DAX.

## **Data Analysis Expression (DAX)**

- Total run = SUM(Most run[Runs])
- Total\_4s = SUM(Most\_run[4s])
- Total 6s = SUM(Most run[6s])
- Total\_boundaries = Most\_run[4s]+Most\_run[6s]
- Total\_ball\_faced = SUM(Most\_run[Ball Faced])
- strike\_rate = DIVIDE([Total\_run],[Total\_ball\_faced],0)\*100
- Total boundaries runs = Most run[4s]\*4+Most run[6s]\*6
- Total\_boundary\_run = SUM(Most\_run[Boundary\_runs])
- Boundary% = DIVIDE([Boundary\_run],[Total\_run],0)\*100
- Total\_wickets = SUM(Most\_wickets[Wickets])
- Total\_run\_conceded = SUM(Most\_wickets[Runs Conceded])
- Total\_ball\_bowled = SUM(Most\_wickets[Balls])
- Bowling\_strike\_rate = DIVIDE(Most\_wickets[Total\_ball\_bowled],[Total\_wickets],0)
- Highest score = MAX(Most run[Highest Score])
- Hundreds = SUM(Most\_run[Hundred])
- Total\_dismissal = SUM(Wicketkeeper\_dismissals[Dismissals])
- Highest\_partnership = MAX(Partnerships[Runs])

• Highest\_partnership\_run = CONCATENATE(Partnerships[Highest\_partnership], "Run")

## **Reports:**

Data visualization for the dataset was done using Microsoft Power BI Desktop:

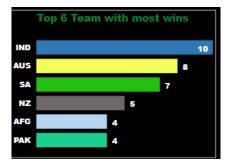
Best Performers-

Here displaying the best performers and using the slicer we can see the best performer of a specific team.



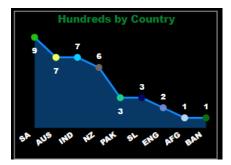
Best Team-

Here displaying the team with most wins in the tournament. We show it in stacked bar chart and it shows India had the most wins (10) in the tournament.



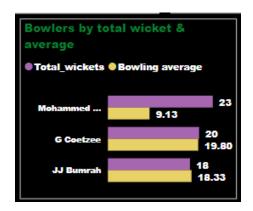
Most Hundreds –

Here displaying the hundreds made by each country in the tournament. We show it in area chart, and it shows South Africa made the most number of hundred (9) in the tournament.

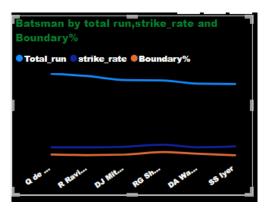


Bowlers by total wickets & average –

Here we filtered players with more than 15 wickets and having bowling strike rate of less than 20. We show the top 3 bowlers in the clustered bar chart considering the factors.

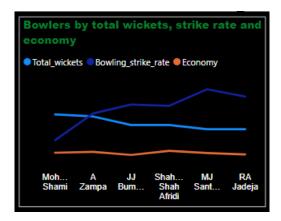


➤ Batsmen by total run, strike rate & Boundary% —
Here we filtered players with more than 500 runs, Boundary% more than 30% and strike rate more than 100. We show the top 6 batsman in the line chart diagram considering these factors.



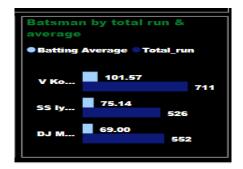
➤ Bowler by total wicket, strike rate & economy –

Here we filtered players with more than 15 wickets, economy less than 6 and strike rate less than 50. We show the top 6 bowlers in the line chart diagram considering these factors.



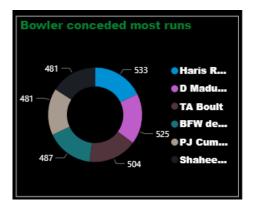
Batsman by total run & average –

Here we filtered players with more than 500 runs and average more than 65. We show the top 3 batsman in the clustered bar chart diagram considering these factors.



Bowler conceded most runs –

Here we displayed the bowlers with most runs conceded in the Donut chat. We see Harris Rauf from Pakistan had conceded the most runs (533) in the tournament.



Players with most 6s –

Here we displayed the batsman with maximum number of 6s in the tournament in the Word cloud. We see Rohit Sharma from India hit most 6s (28) in the tournament.



# **Conclusion:**

From this assignment we learned the use of Power BI. We learned how to analysis data sets and visualize the results in the Dashboard.