Name- Rushikesh sable
281(B4)

```
[16] import pandas as pd
     import matplotlib.pyplot as plt

     # Read the CSV file into a pandas DataFrame
     df = pd.read_csv('/content/t20.csv')

     # Sort the DataFrame by the column containing the values you want to plot
     sorted_df = df.sort_values(by='Mat', ascending=False)

     # Extract the top 5 rows
     top_5 = sorted_df.head(5)

     # Extract the data for plotting
     x = top_5['Mat']
     y = top_5['Runs']

     # Plot the data
     plt.plot(x,y,marker='o',color='r')

     # Add labels and title to the plot
     plt.xlabel('Matches played')
     plt.ylabel('Runs scored')
     plt.title('Cricket analysis')

     # Display the plot
     plt.show()
```
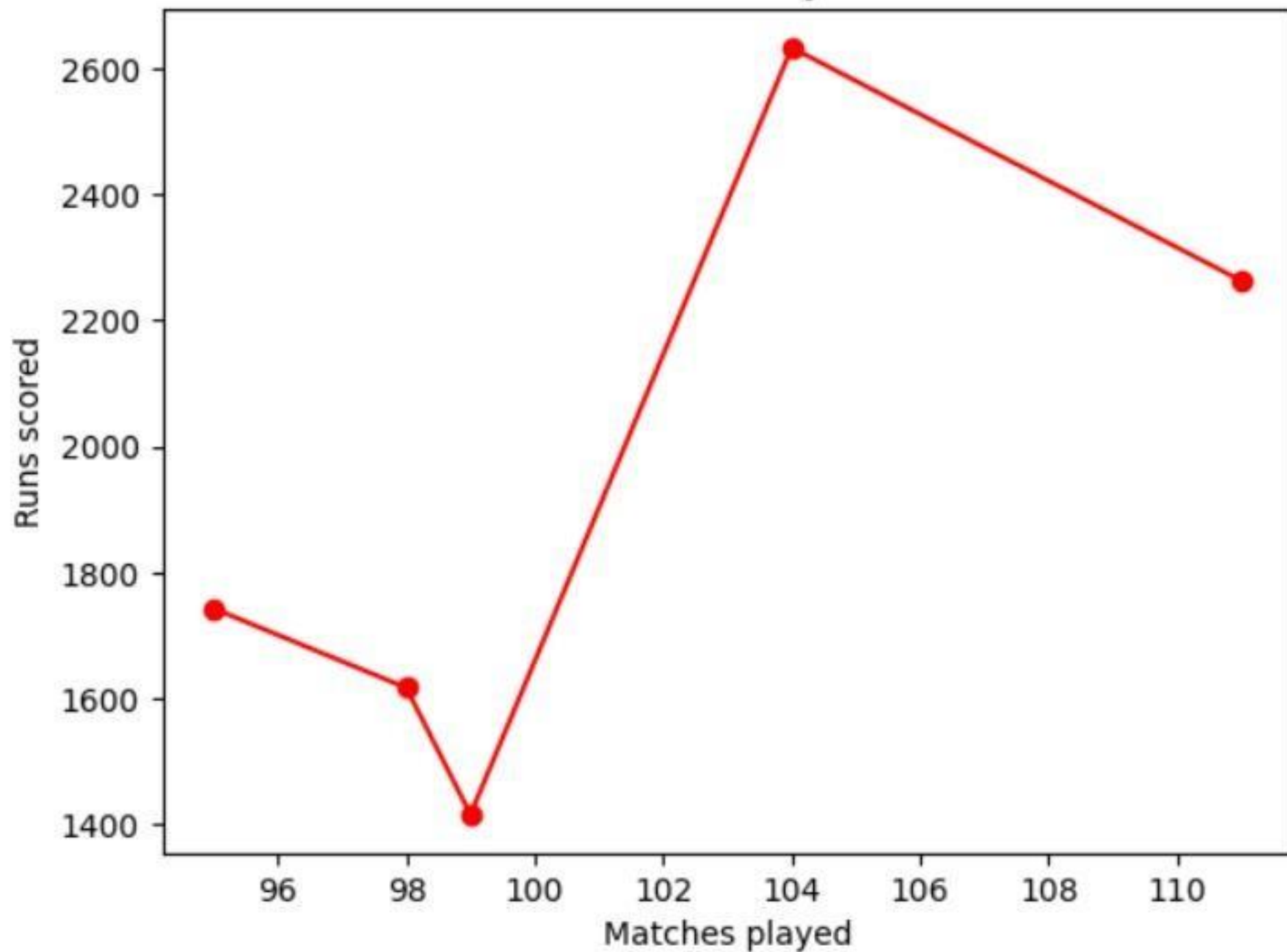
Cricket analysis

```python
import pandas as pd
import matplotlib.pyplot as plt

# Read the CSV file into a pandas DataFrame
df = pd.read_csv('/content/t20.csv')

# Sort the DataFrame by the column containing the values you want to plot
sorted_df = df.sort_values(by='Runs', ascending=False)

# Extract the top 5 rows
top_4 = sorted_df.head(4)

# Extract the data for plotting
x = top_4['Player']
y = top_4['Runs']

# Plot the data
plt.plot(x,y,marker='o',color='r')

# Add labels and title to the plot
plt.xlabel('Players')
plt.ylabel('Runs scored')
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
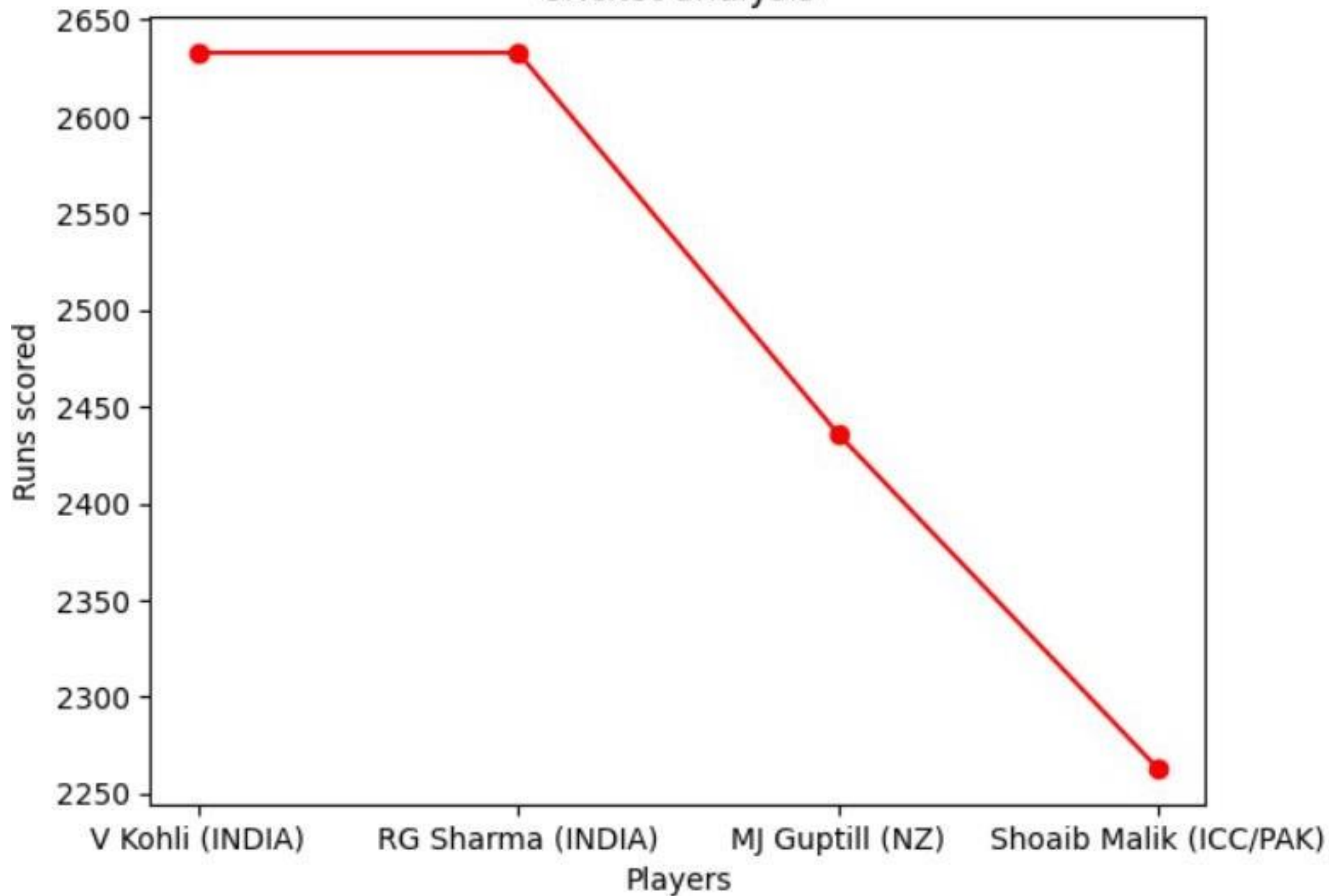
Cricket analysis

```python
import pandas as pd
import matplotlib.pyplot as plt

# Read the CSV file into a pandas DataFrame
df = pd.read_csv('/content/t20.csv')

# Sort the DataFrame by the column containing the values you want to plot
sorted_df = df.sort_values(by='100', ascending=False)

# Extract the top 5 rows
top_4 = sorted_df.head(4)

# Extract the data for plotting
x = top_4['Player']
y = top_4['100']

# Plot the data
plt.plot(x,y,marker='o',color='r')

# Add labels and title to the plot
plt.xlabel('Players')
plt.ylabel('Hundreds scored')
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
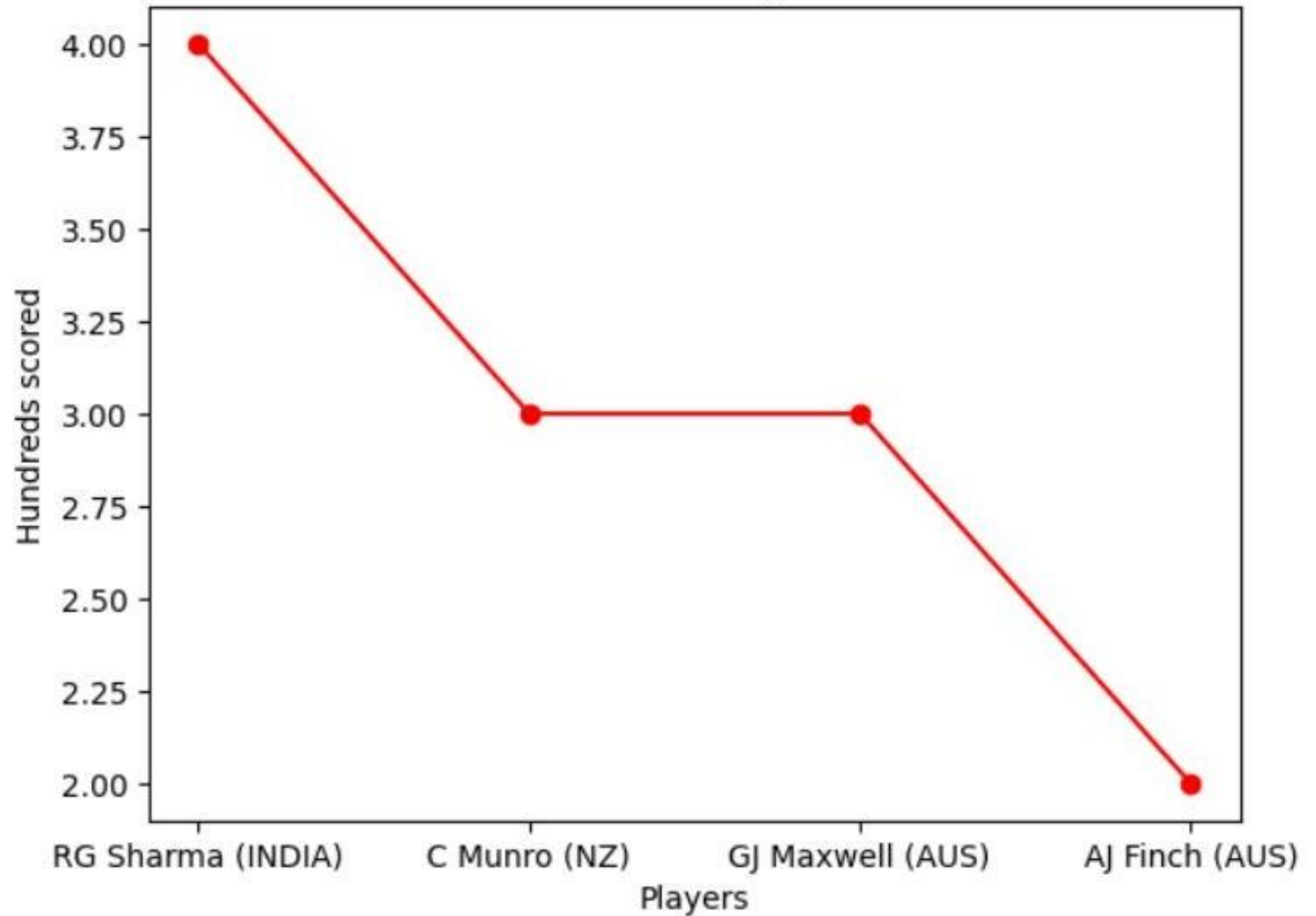
Cricket analysis

```python
import pandas as pd
import matplotlib.pyplot as plt

# Read the CSV file into a pandas DataFrame
df = pd.read_csv('/content/t20.csv')

# Sort the DataFrame by the column containing the values you want to plot
sorted_df = df.sort_values(by='100', ascending=False)

# Extract the top 5 rows
top_4= sorted_df.head(4)

# Extract the data for plotting
x = top_4['Player']
y = top_4['100']

# Plot the data
plt.bar(x, y, width=0.3)

# Add labels and title to the plot
plt.xlabel('Players')
plt.ylabel('Hundreds scored')
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
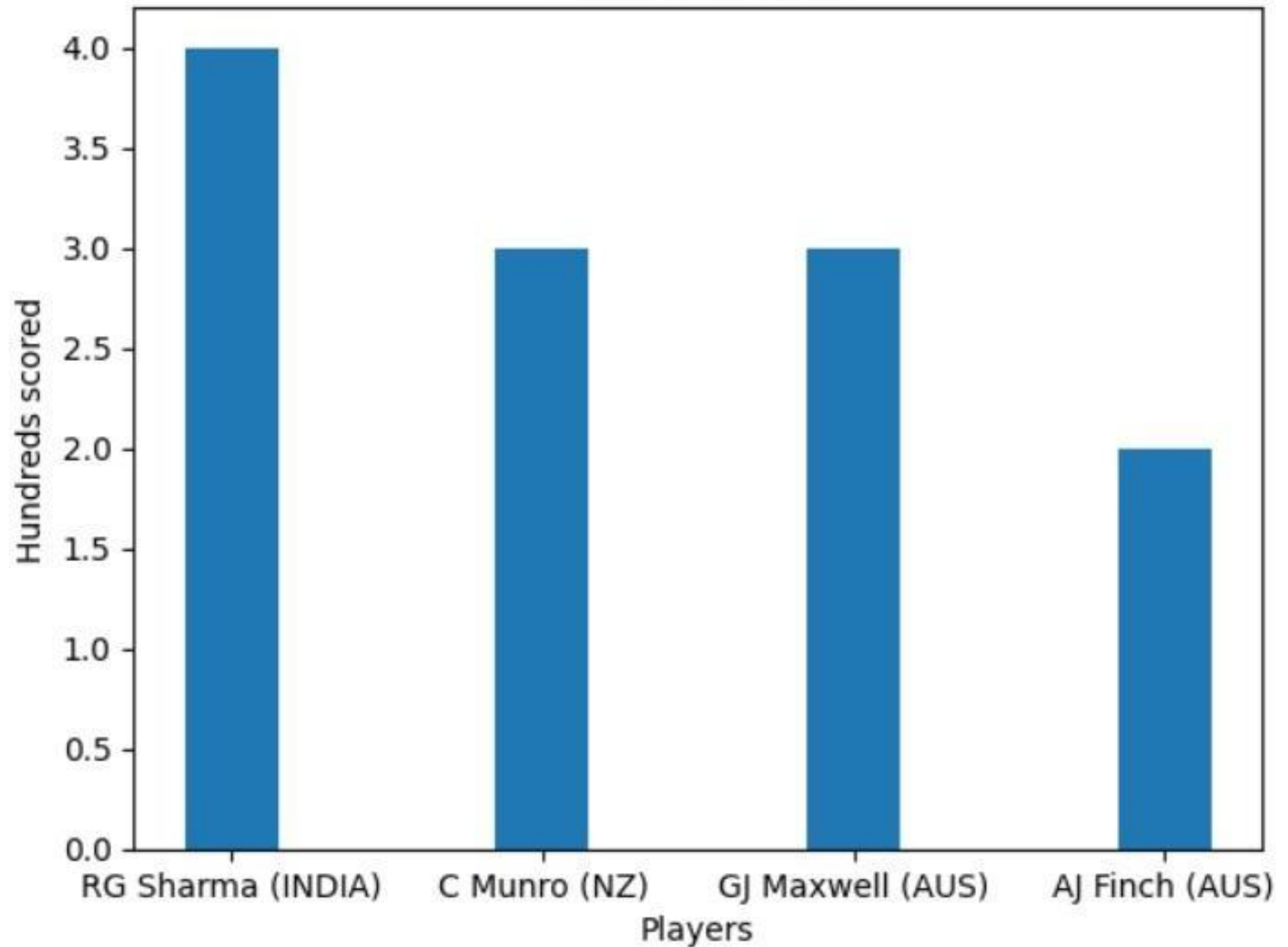
```python
[22]  import pandas as pd
      import matplotlib.pyplot as plt

      # Read the CSV file into a pandas DataFrame
      df = pd.read_csv('/content/t20.csv')

      # Sort the DataFrame by the column containing the values you want to plot
      sorted_df = df.sort_values(by='Runs', ascending=False)

      # Extract the top 5 rows
      top_5 = sorted_df.head(5)

      # Extract the data for plotting
      values = top_5['Runs']

      # Plot the histogram
      plt.hist(values,rwidth=0.7)

      # Add labels and title to the plot
      plt.xlabel('Runs')
      plt.ylabel('Players')
      plt.title('Cricket analysis')

      # Display the plot
      plt.show()
```
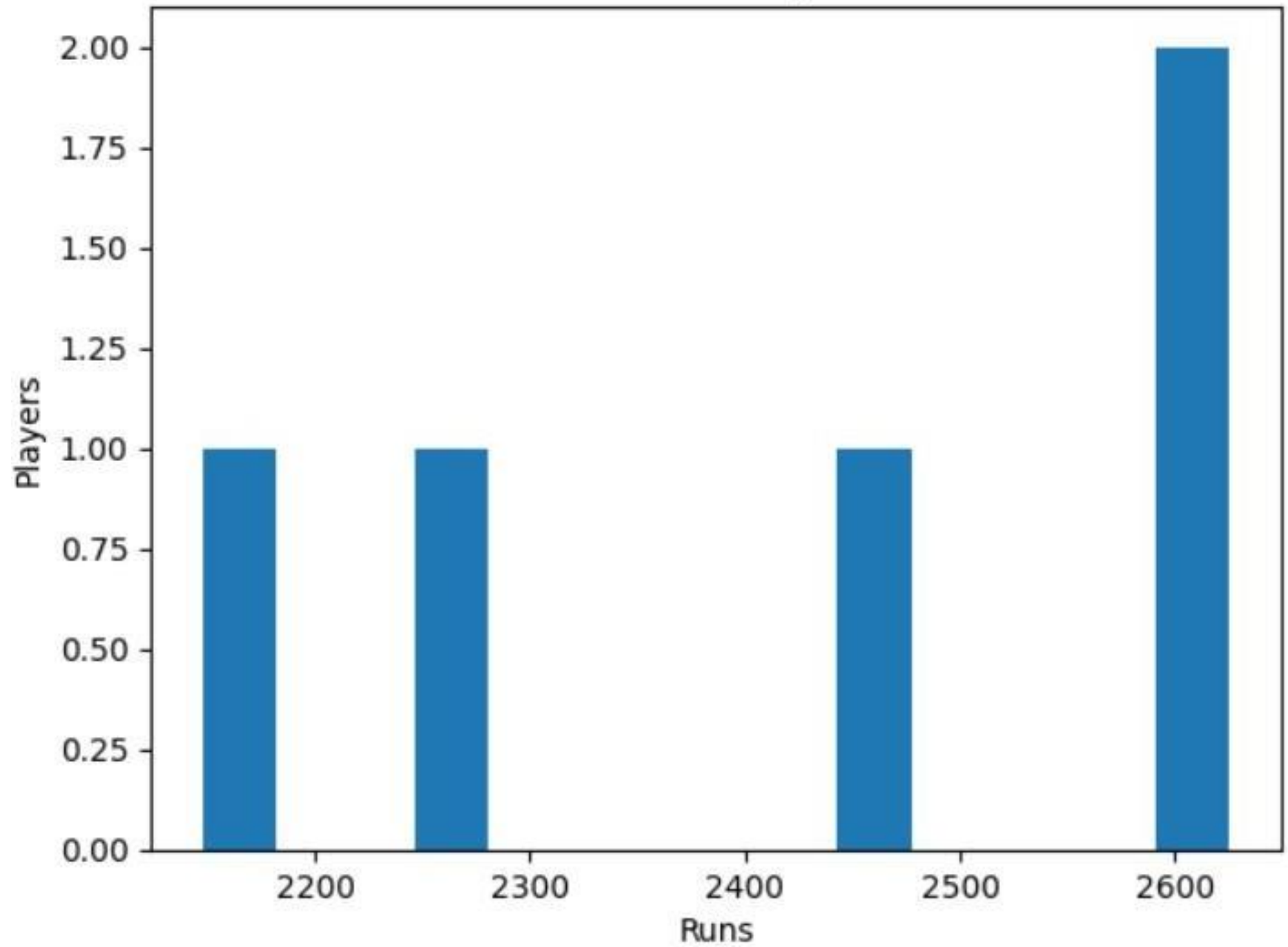
```
[24]  import pandas as pd
      import matplotlib.pyplot as plt

      # Read the CSV file into a pandas DataFrame
      df = pd.read_csv('/content/t20.csv')

      # Sort the DataFrame by the column containing the values you want to plot
      sorted_df = df.sort_values(by='Mat', ascending=False)

      # Extract the top 5 rows
      top_5 = sorted_df.head(5)

      # Extract the data for plotting
      x = top_5['Mat']
      y = top_5['Runs']

      # Plot the scatter plot
      plt.scatter(x, y)

      # Add labels and title to the plot
      plt.xlabel('Matches')
      plt.ylabel('Runs scored')
      plt.title('Cricket analysis')

      # Display the plot
      plt.show()
```
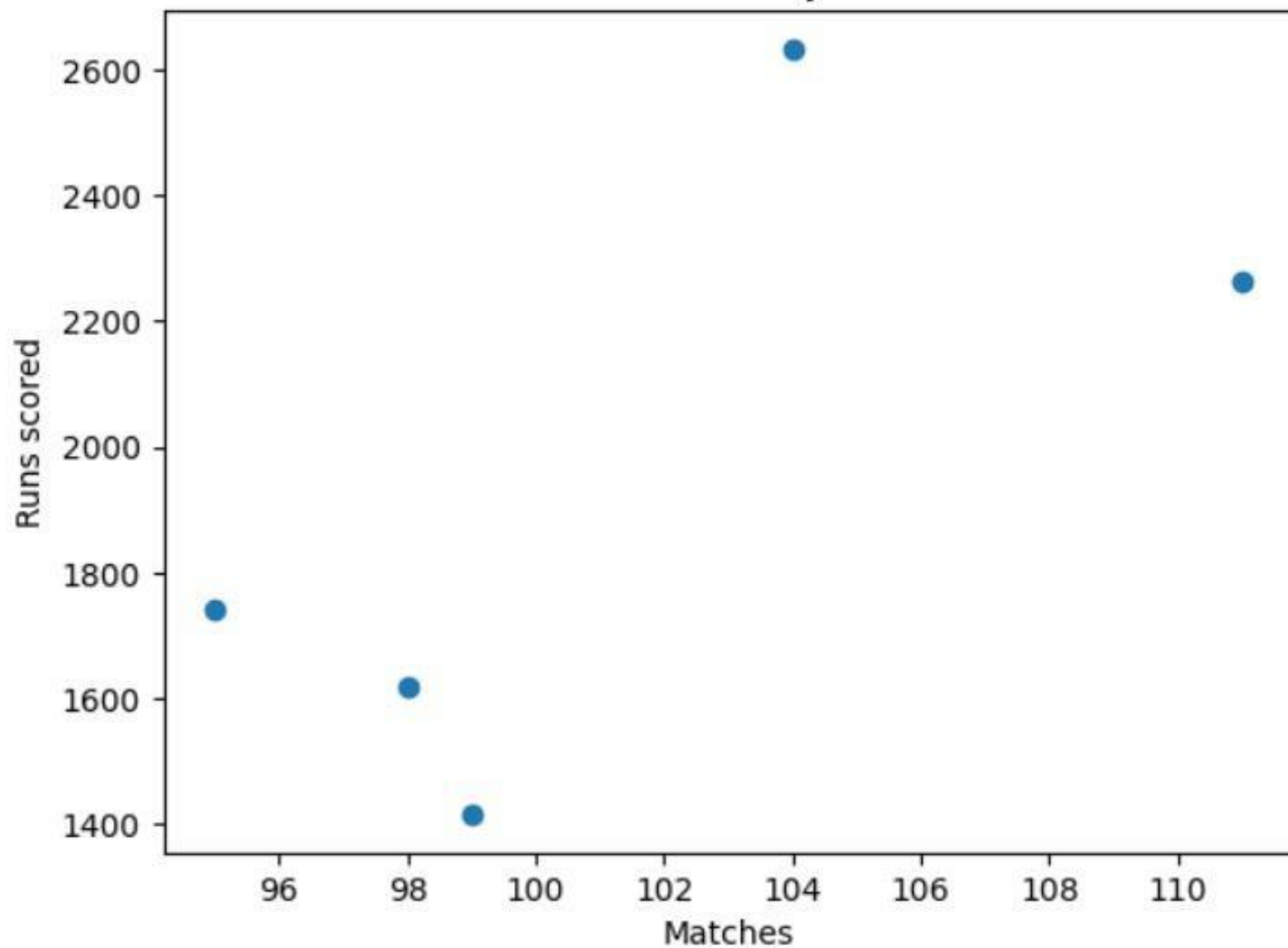
Cricket analysis

```python
[25] import pandas as pd
     import matplotlib.pyplot as plt

     # Read the CSV file into a pandas DataFrame
     df = pd.read_csv('/content/t20.csv')

     # Sort the DataFrame by the column containing the values you want to plot
     sorted_df = df.sort_values(by='Runs', ascending=False)

     # Extract the top 5 rows
     top_4 = sorted_df.head(4)

     # Extract the data for plotting
     x = top_4['Player']
     y = top_4['Runs']

     # Plot the scatter plot
     plt.scatter(x, y)

     # Add labels and title to the plot
     plt.xlabel('Players')
     plt.ylabel('Runs scored')
     plt.title('Cricket analysis')

     # Display the plot
     plt.show()
```
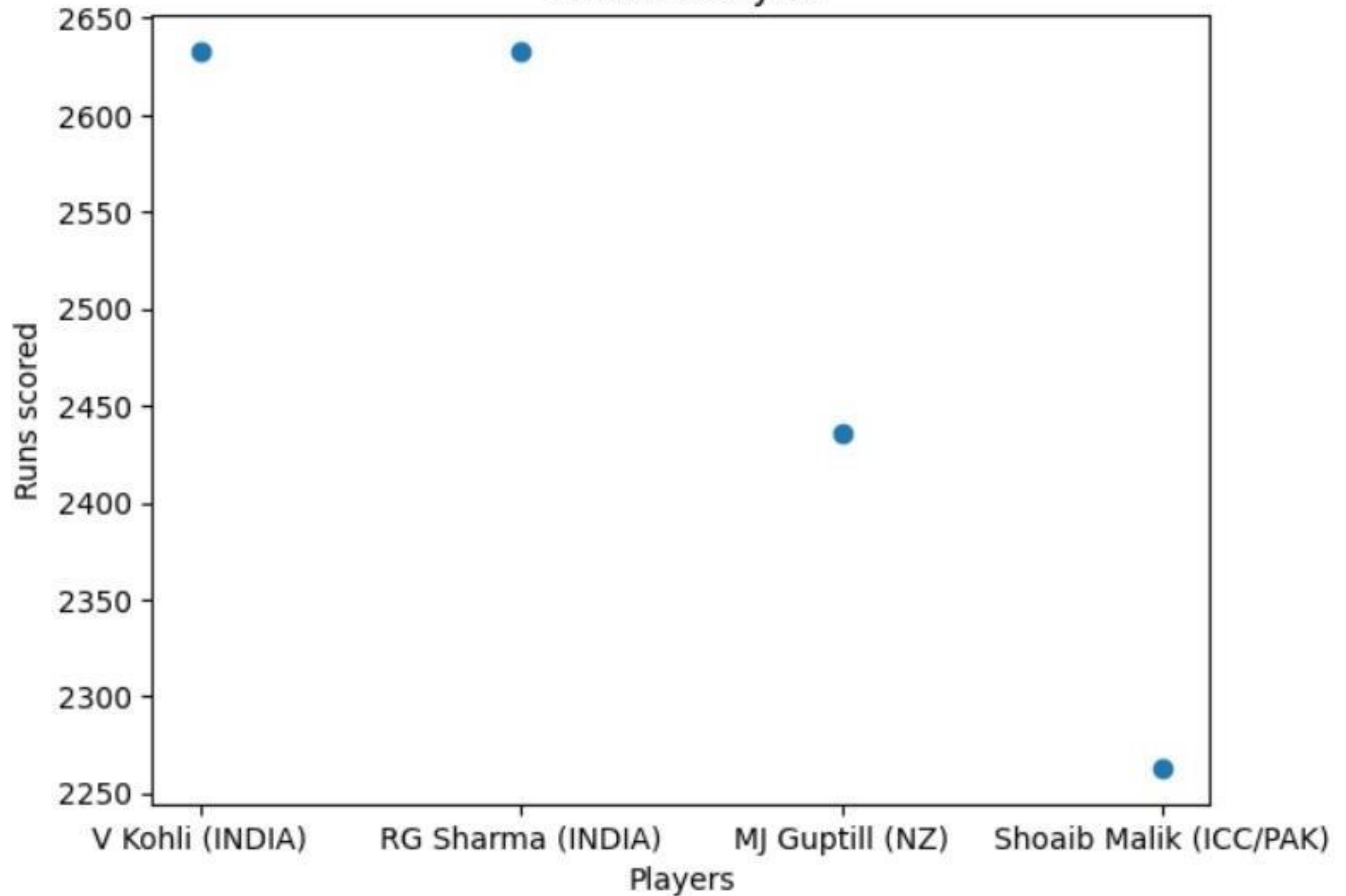
Cricket analysis

Players: V Kohli (INDIA), RG Sharma (INDIA), MJ Guptill (NZ), Shoaib Malik (ICC/PAK)

Runs scored

```python
[26] import pandas as pd
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     sorted_df = df.sort_values(by='100', ascending=False)

     # Extract the top 5 rows
     top_5 = sorted_df.head(5)

     # Extract the data for plotting
     x = top_5['Player']
     y = top_5['100']

     # Plot the scatter plot
     plt.scatter(x, y)

     # Add labels and title to the plot
     plt.xlabel('Players')
     plt.ylabel('Hundreds scored')
     plt.title('Cricket analysis')

     # Display the plot
     plt.show()
```
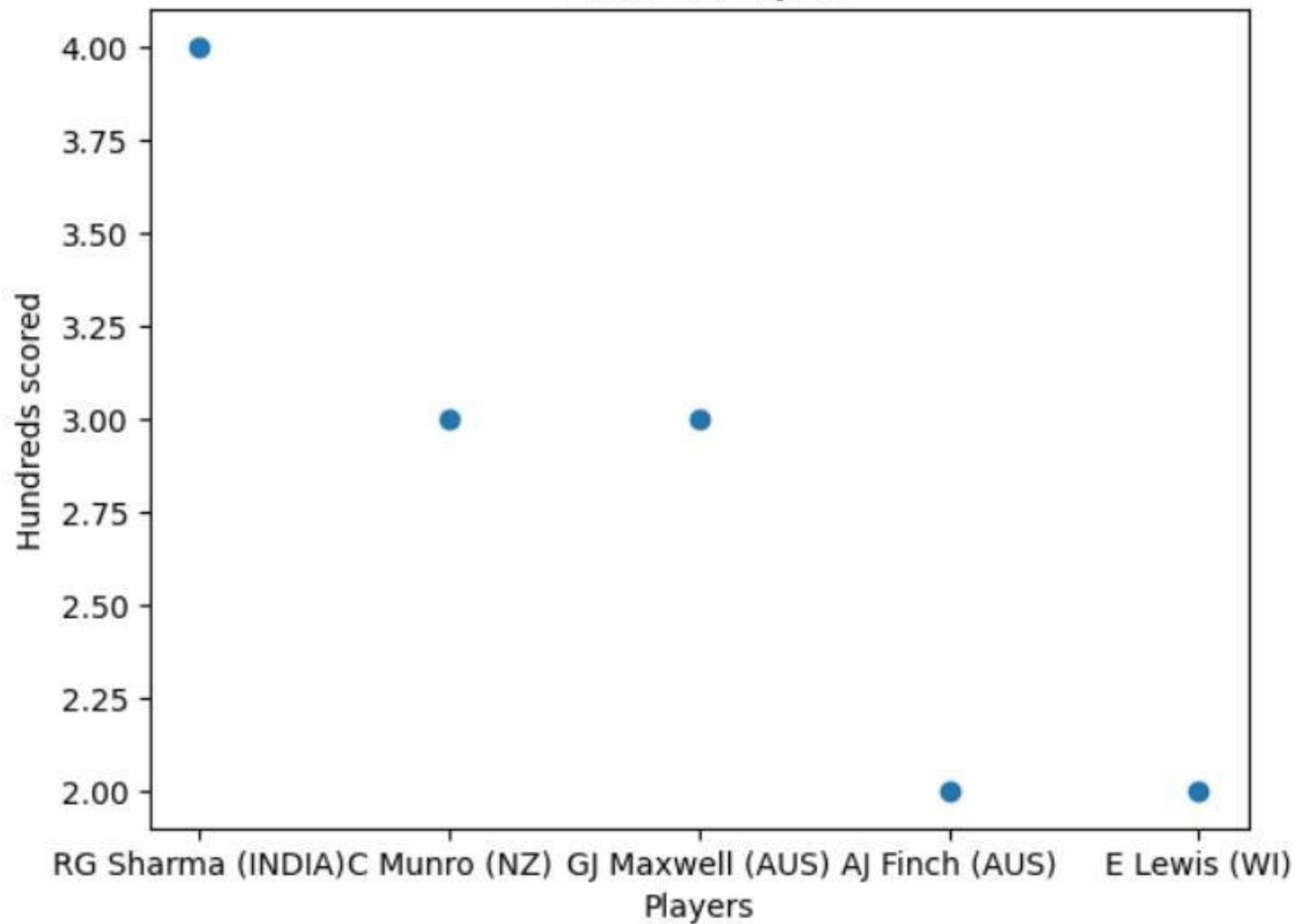
```python
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# Read the CSV file into a pandas DataFrame
df = pd.read_csv('/content/t20.csv')

# Sort the DataFrame by the column containing the values you want to plot
sorted_df = df.sort_values(by='Runs', ascending=False)

# Extract the top 5 rows
top_5 = sorted_df.head(5)

# Extract the data for plotting
labels = top_5['Mat']
values = top_5['Runs']

# Plot the pie chart
plt.pie(values, labels=labels, autopct='%1.1f%%')

# Add title to the plot
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
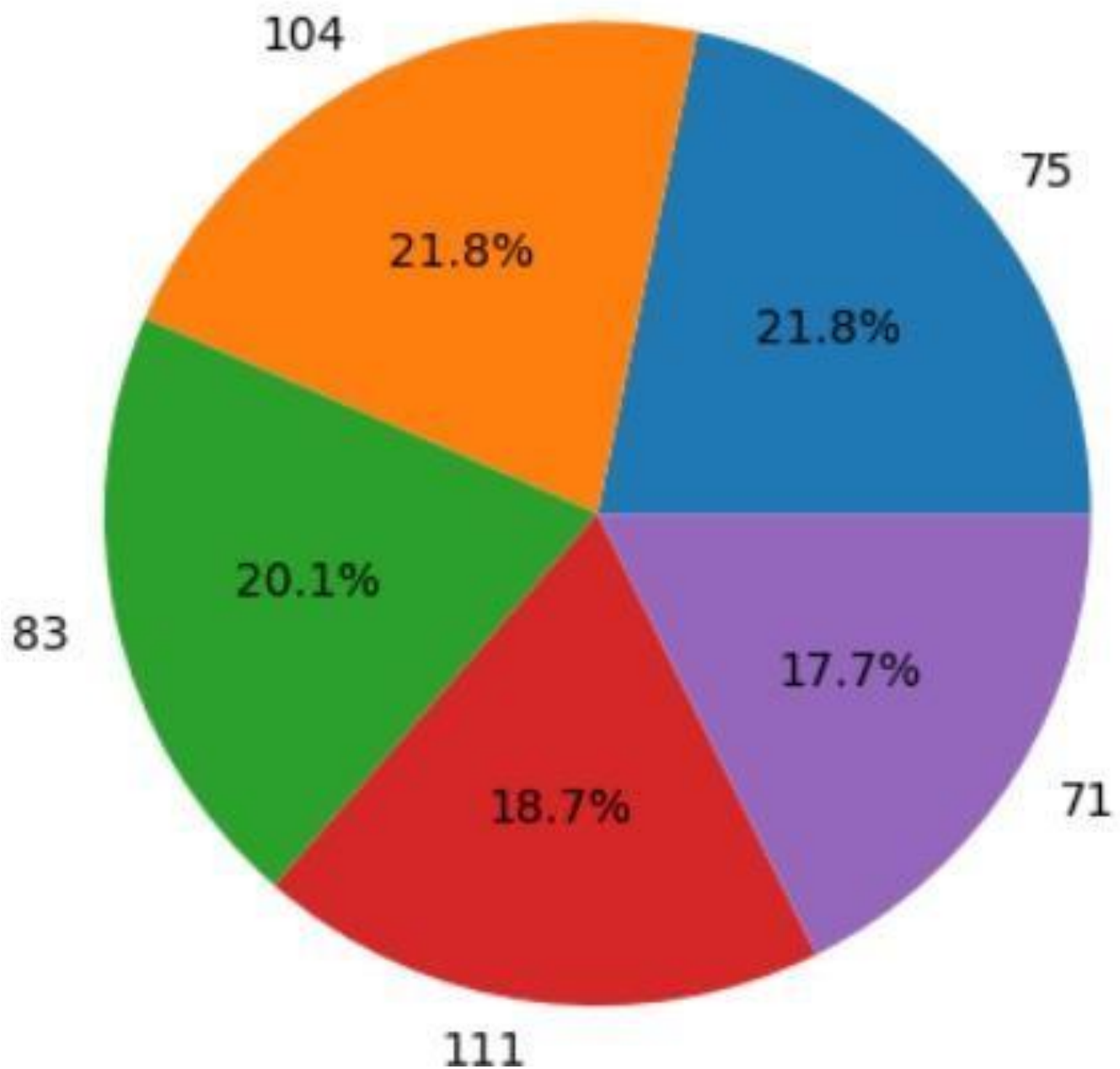
Cricket analysis

```
[28]  import pandas as pd
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      # Read the CSV file into a pandas DataFrame
      df = pd.read_csv('/content/t20.csv')

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      # Extract the top 5 rows
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      # Extract the data for plotting
      labels = top_5['Player']
      values = top_5['Runs']

      # Plot the pie chart
      plt.pie(values, labels=labels, autopct='%1.1f%%')

      # Add title to the plot
      plt.title('Cricket analysis')

      # Display the plot
      plt.show()
```
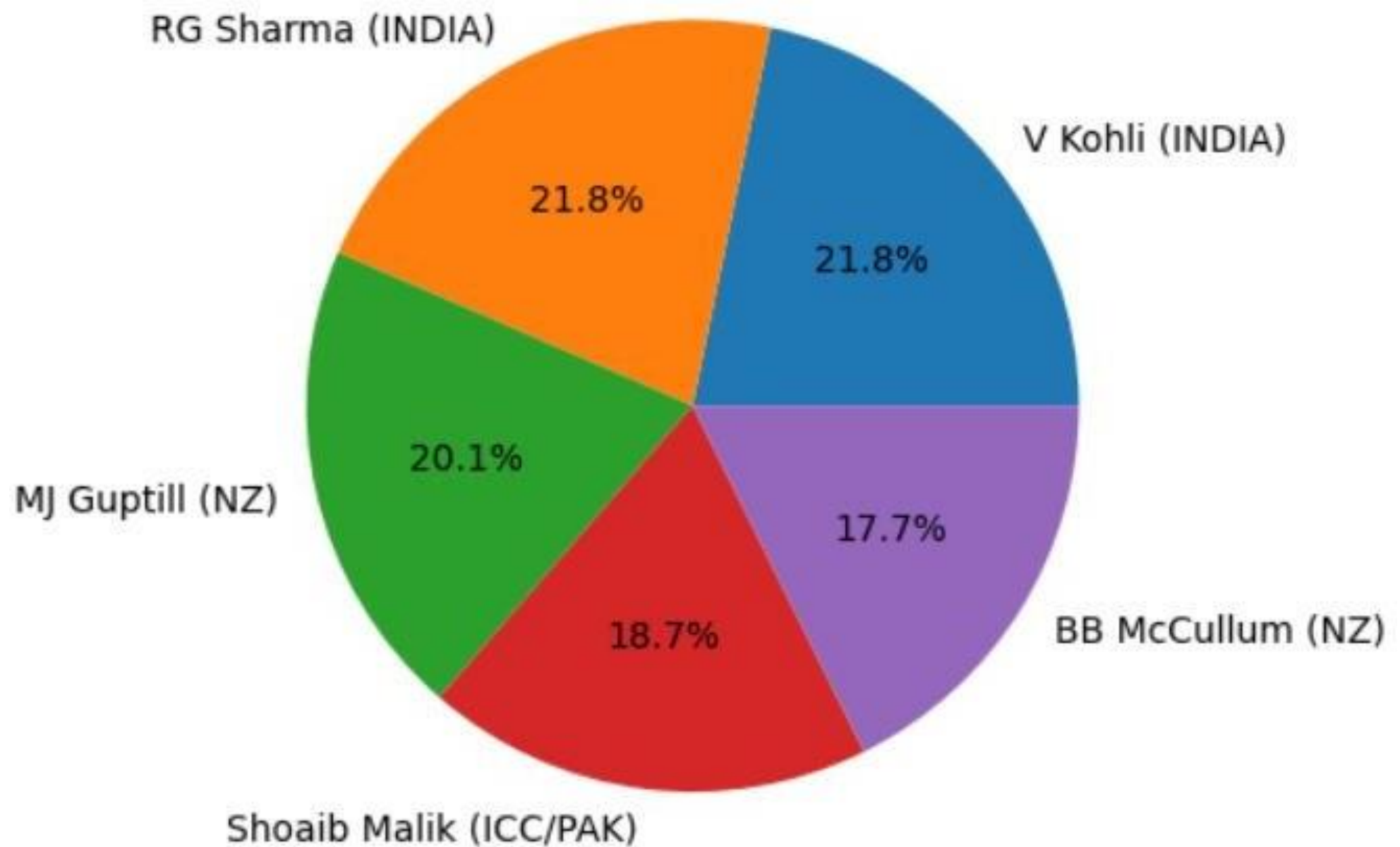
Cricket analysis

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sorted_df = df.sort_values(by='100', ascending=False)

# Extract the top 5 rows
top_5 = sorted_df.head(5)

# Extract the data for plotting
labels = top_5['Player']
values = top_5['100']

# Plot the pie chart
plt.pie(values, labels=labels, autopct='%1.1f%%')

# Add title to the plot
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
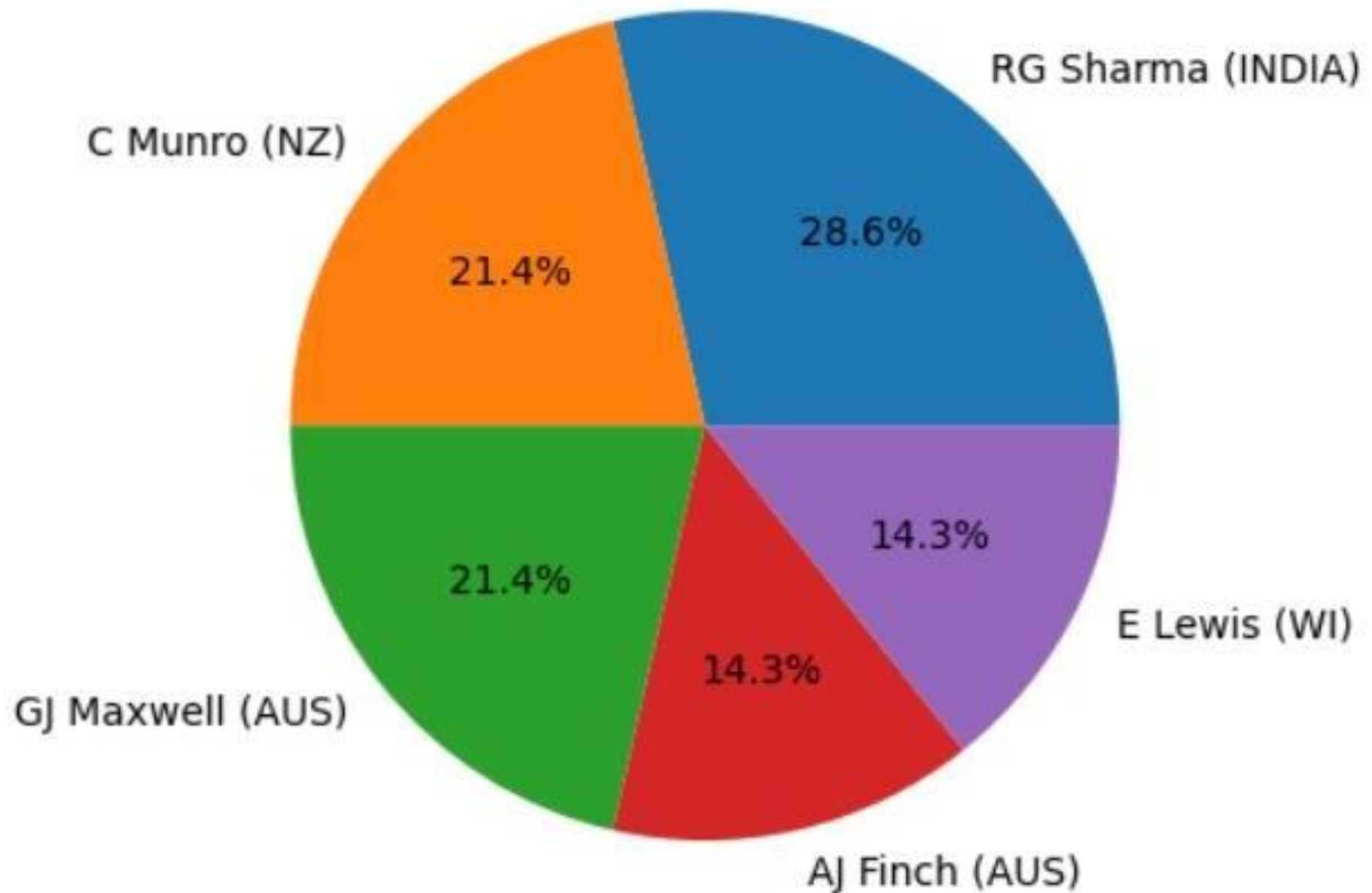
Cricket analysis

- RG Sharma (INDIA) — 28.6%
- C Munro (NZ) — 21.4%
- GJ Maxwell (AUS) — 21.4%
- AJ Finch (AUS) — 14.3%
- E Lewis (WI) — 14.3%

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sorted_df = df.sort_values(by='Runs', ascending=False)

# Extract the top 5 rows
top_5 = sorted_df.head(5)

# Extract the data for plotting
x=top_5['Mat']
y=top_5['Runs']

# Plot the graphs
plt.plot(x,y,color='green',linestyle='dashed',linewidth=3,marker='o',markerfacecolor='blue',markersize=12)

# Add labels and title to the plot
plt.xlabel('Matches')
plt.ylabel('Runs scored')
plt.title('Cricket analysis')

# Display the plot
plt.show()
```
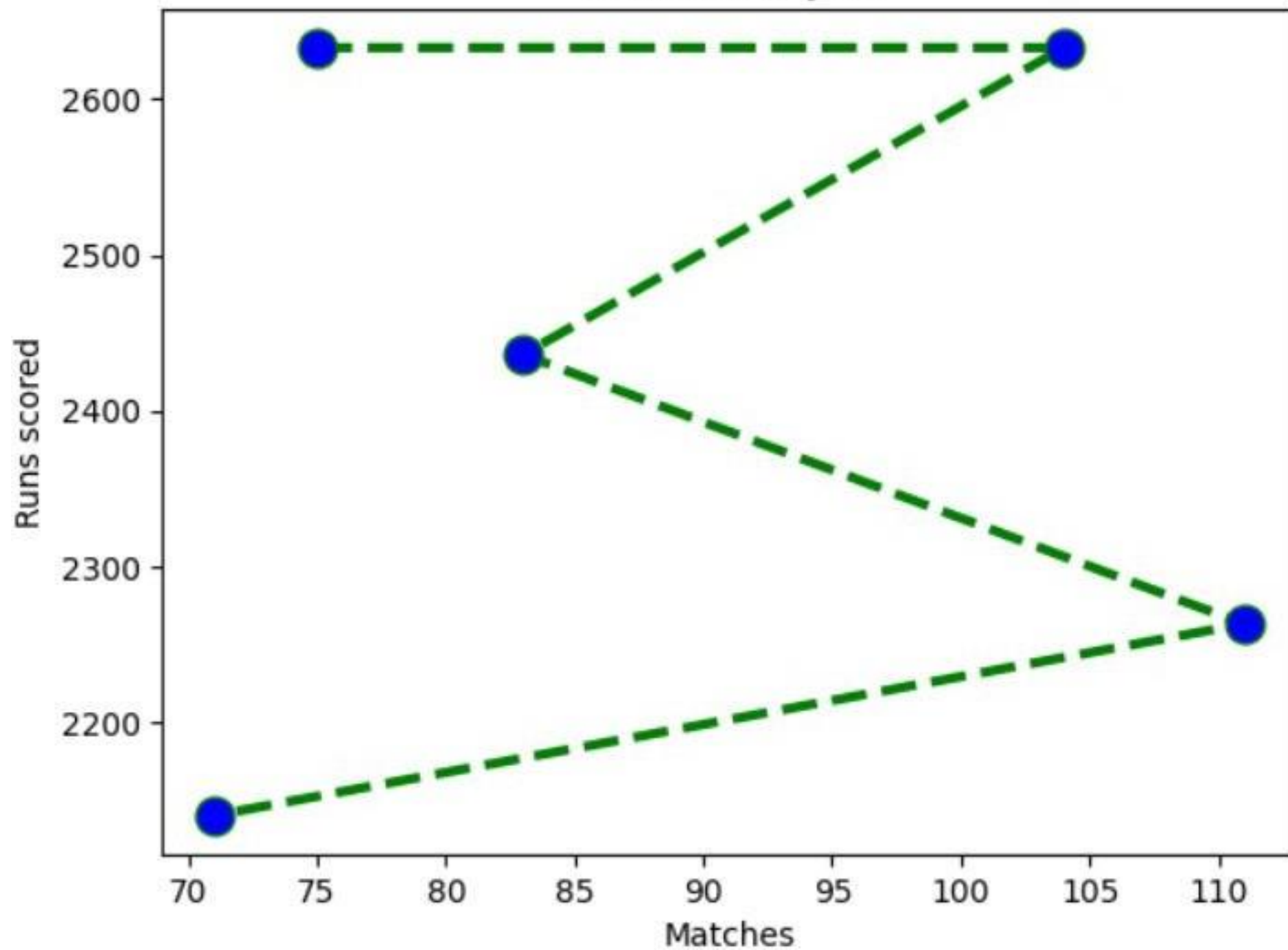
Cricket analysis

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Cricket analysis