
0.0.1 Question 4b

Create two line plots below. The first should show the relationship between average number of votes and runtime; the second should show the relationship between average rating and runtime. The runtime should be on the x-axis for both plots. Use the columns from the table generated in the previous part, `res_q4a`. If your SQL query is correct, you should get some interesting plots below. This might explain why directors keep going with a particular range of runtimes.

Notes: * Please use `sns` or `plt` functions for plotting. Plotly `px` does not export to the PDF properly. * Please include descriptive titles and labels. * If your plot does not show up in the generated PDF, please upload a PDF with a screenshot of your code and the plot.

In [192]:
```
plt.figure(figsize=(10, 4), layout='constrained')
plt.subplot(1, 2, 1) # DO NOT MODIFY THIS LINE
plt.plot('runtimeBin', 'averageRating', data=res_q4a)
plt.title('Runtime versus Average Rating \n For Movies on IMDB')
plt.xlabel('Runtime (Minutes)')
plt.ylabel('Average Rating')
plt.subplot(1, 2, 2) # DO NOT MODIFY THIS LINE
plt.plot('runtimeBin', 'averageNumVotes', data=res_q4a)
plt.title('Runtime versus Average # of Votes \n For Movies on IMDB')
plt.xlabel('Runtime (Minutes)')
plt.ylabel('Average # of Votes')
```

Out[192]:
```
Text(0, 0.5, 'Average # of Votes')
```