Findings and Conclusions:

Q1) Do movies become profitable with longer runtime?

Analyzing movie runtime effect on profit%, Box office collections and number of releases. Here we can see that **90-115 runtime range has the highest box office collection** and **maximum no. of releases.**

We can say that **box office collections are not highly correlated to runtime range**. In correlation coefficient test, we found that they have **low positive correlation i.e. is 0.3.**

Profit % bar graph is showing **maximum profit in 160-185 runtime range** and its increasing till 165-180 range which shows there is positive relation between them.

**Robert Downey Jr is the most successful actor** with 3 biggest blockbuster movies while **Johny Depp and Mark Hamill** are on **second position** here with 2 movies.

**Anthony Russo, Joe Russo are the top directors with 3 movies** and **Gore Verbinski comes second here with 2 biggest blockbusters.**

Note- Biggest blockbuster is the movie which has the highest box office collection and profit in a year.

The income of the biggest blockbuster of the year is increasing most of the year and have their peak in 2010 and 2019. An exceptional drop can be seen in 2020 due to global pandemic.

Q7) Does the movie release time affect the profitability the movie?

Looking at graphs we can say that **May**, **December** months are best for the release of movies with **four** biggest blockbusters more than **twenty** **five** and **twenty** blockbusters and the **lowest** flops respectively.

**July** and **October** are not the best time to release movies since they produced around **thirty five and thirty eight flops** respectively and low no. of blockbusters.