A statement of the questions I posed

Question 1

The staff that worked the most in films since 2000

I made new data frame which has films were released since 2000 i made function that get the unique elements and the number of repeatation of each unique then it arrange it descendingly and plot first 10 and I found that the first 3 in

- The directors that worked the most on films
1. Steven Soderbergh by 13
2. Ridley Scott by 12
3. Steven Spielberg by 11
- The casts who worked on most films since 2000
1. Jennifer Lawrence|Josh Hutcherson|Liam Hemsworth|Woody Harrelson|Elizabeth Banks by 3
2. Elijah Wood|Ian McKellen|Viggo Mortensen|Liv Tyler|Orlando Bloom by 3
3. Kristen Stewart|Robert Pattinson|Taylor Lautner|Ashley Greene|Peter Facinelli by 2
- The companies who worked on most films since 2000
1. New Line Cinema by 19
2. Paramount Pictures by 15
3. DreamWorks Animation by 14
- The genres are most commom between films since 2000
1. Drama
2. Comedy
3. comey|romace

Question 2

staff who worked on the most successful films since 2000 I arrange the new data frame according to revenue column (Data frame that i used in first question)I get first 10 in the cloumn I need and I found that the first 3 directors

best movvies

1. Avatar

2. Star Wars: The Force Awakens

3. The Avengers

4. Jurassic World

5. Furious 7

best directors

6. James Cameron

7. J.J. Abrams

8. Joss Whedon

9. Colin Trevorrow

10. James Wan

best cast

11. Sam Worthington|Zoe Saldana|Sigourney Weaver|S...

12. Harrison Ford|Mark Hamill|Carrie Fisher|Adam D...

13. Robert Downey Jr.|Chris Evans|Mark Ruffalo|Chr...

14. Chris Pratt|Bryce Dallas Howard|Irrfan Khan|Vi...

15. Vin Diesel|Paul Walker|Jason Statham|Michelle ...

best genres

16. Action|Adventure|Fantasy|Science Fiction

17. Action|Adventure|Science Fiction|Fantasy

18. Science Fiction|Action|Adventure

19. Action|Adventure|Science Fiction|Thriller

20. Action|Crime|Thriller

best production companies

21. Ingenious Film Partners|Twentieth Century Fox ...

22. Lucasfilm|Truenorth Productions|Bad Robot

23. Marvel Studios

24. Universal Studios|Amblin Entertainment|Legenda...

25. Universal Pictures|Original Film|Media Rights ...

#Question 3

How does the time affect films

1. The best month to release film is june i summed the revenue of each year then i plotted it and the worth month is september
2. I found that future of making films increases every year as i grouped years then i get median of revenue to avoid outliers

#Question 4

##What kinds of properties are associated with movies that have high revenues?

1. by increasing budget revenue increasees
2. by increasing runtime revenue increasees until specific point
3. by increasing budget vote average increasees
4. by increasing vote average revenue increase
5. by increasing vote average popularity increase
6. by increasing vote average popularity increase

#Limition

1. The dataset was quite bad .This is why, the data frame was 10 thousand rows but after cleaning it became 3 thouand rows and it is impossible to compensate it as revenue and budget equal zero in some rows
2. it will be better to put anthor columns like prizes column instead of imdb_id
3. some columns' name doesn't make sense or it is not obvious In the future I can work on them