SQL Assignment

```
In [17]: import pandas as pd
         import salite3
         from IPython.display import display, HTML
In [18]: # Note that this is not the same db we have used in course videos, please download from this link
         # https://drive.google.com/file/d/10-1-L1DdNxEK6O6nG2jS31MbrMh-OnXM/view?usp=sharing
In [19]: conn = sqlite3.connect("Db-IMDB-Assignment.db")
         Overview of all tables
In [20]: tables = pd.read_sql_query("SELECT NAME AS 'Table_Name' FROM sqlite_master WHERE type='table'",conn)
         tables = tables["Table_Name"].values.tolist()
In [21]: for table in tables:
             query = "PRAGMA TABLE_INFO({})".format(table)
             schema = pd.read_sql_query(query,conn)
             print("Schema of", table)
             display(schema)
             print("-"*100)
             print("\n")
            cid name
                          type notnull dflt value pk
              0
                 index INTEGER
                                   0
                                                0
                                          None
                                   0
                         TEXT
                                                0
             1 Name
                                          None
                 GID INTEGER
                                          None
         Schema of Language
                          type notnull dflt_value pk
            cid name
              0 index INTEGER
                                          None
                                                0
              2 LAID INTEGER
                                          None
```

Useful tips:

- 1. the year column in 'Movie' table, will have few chracters other than numbers which you need to be preprocessed, you need to get a substring of last 4 characters, its better if you convert it as int type, ex: CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)
- 2. For almost all the TEXT columns we have show, please try to remove trailing spaces, you need to use TRIM() function
- 3. When you are doing count(coulmn) it won't consider the "NULL" values, you might need to explore other alternatives like Count(*)

Q1 --- List all the directors who directed a 'Comedy' movie in a leap year. (You need to check that the genre is 'Comedy' and year is a leap year) Your query should return director name, the movie name, and the year.

To determine whether a year is a leap year, follow these steps:

- STEP-1: If the year is evenly divisible by 4, go to step 2. Otherwise, go to step 5.
- STEP-2: If the year is evenly divisible by 100, go to step 3. Otherwise, go to step 4.
- STEP-3: If the year is evenly divisible by 400, go to step 4. Otherwise, go to step 5.
- STEP-4: The year is a leap year (it has 366 days).
- STEP-5: The year is not a leap year (it has 365 days).

Year 1900 is divisible by 4 and 100 but it is not divisible by 400, so it is not a leap year.

```
In [22]: %%time
         def grader_1(q1):
             q1_results = pd.read_sql_query(q1,conn)
             print(q1_results.head(10))
             print(q1_results.shape)
             assert (q1_results.shape == (232,3))
         # List all the directors who directed a 'Comedy' movie in a leap year.
          # (You need to check that the genre is 'Comedy' and year is a leap year)
         # Your query should return director name, the movie name, and the year
         query1 = """
         SELECT p.Name as Director Name, b.title as Title, b.year as Year
         FROM (((M_Genre mg INNER JOIN (SELECT GID FROM Genre WHERE Name LIKE '%Comedy%') g ON g.GID = mg.GID) com INNER JOIN Movie m ON m
         WHERE ((CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) % 4 = 0 and CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) % 100 != 0) or (CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) % 100 != 0)
         grader_1(query1)
                     Director Name
                                                            Title
                                                                   Year
         0
                     Prakash Mehra
                                                       Hera Pheri
                                                                   1976
                        Raj Kanwar
                                                          Deewana
                                                                   1992
                      Priyadarshan
                                                       Hera Pheri
                                                                   2000
                                                    Gora Aur Kala 1972
                      Naresh Kumar
                     Eeshwar Nivas My Name Is Anthony Gonsalves 2008
                      Anees Bazmee
                                                  Singh Is Kinng
                                                                   2008
             Deepak S. Shivdasani
                                              Mr. White Mr. Black 2008
                                              Gangs of Wasseypur 2012
                    Anurag Kashyap
         8
                     Rajat Kapoor
                                                           Mithya 2008
                     Ravindra Dave
                                                     Dulha Dulhan 1964
         (232, 3)
         Wall time: 65.3 ms
```

Q2 --- List the names of all the actors who played in the movie 'Anand' (1971)

```
In [23]: %%time
         def grader_2(q2):
             q2_results = pd.read_sql_query(q2,conn)
             print(q2_results.head(10))
             print(q2_results.shape)
             assert (q2_results.shape == (17,1))
         query2 = """
         Select p.Name
         From Person p, (Select mc.PID
                        from (select MID
                              from Movie m
                              where title = 'Anand' and 1971 = CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)
                              ) A, M_Cast mc
                             where mc.MID = A.MID) p_pid
         Where Trim(p.PID) = Trim(p_pid.PID)""
         grader_2(query2)
             Amitabh Bachchan
                Rajesh Khanna
                Sumita Sanyal
         3
                   Ramesh Deo
                    Seema Deo
               Asit Kumar Sen
                   Dev Kishan
                 Atam Prakash
                Lalita Kumari
                       Savita
         (17, 1)
         Wall time: 281 ms
```

Q3 --- List all the actors who acted in a film before 1970 and in a film after 1990. (That is: < 1970 and > 1990.)

```
In [24]: %%time
         def grader_3a(query_less_1970, query_more_1990):
             q3_a = pd.read_sql_query(query_less_1970,conn)
             print(q3_a.shape)
             q3_b = pd.read_sql_query(query_more_1990,conn)
             print(q3_b.shape)
             return (q3_a.shape == (4942,1)) and (q3_b.shape == (62570,1))
         query_less_1970 ="""
         Select p.PID from Person p
         inner join
             select trim(mc.PID) PD, mc.MID from M_cast mc
         where mc.MID
         in
             select mv.MID from Movie mv where CAST(SUBSTR(mv.year,-4) AS Integer)<1970</pre>
         ) r1
         on r1.PD=p.PID
         query_more_1990 ="""
         Select p.PID from Person p
         inner join
             select trim(mc.PID) PD, mc.MID from M_cast mc
         where mc.MID
         in
             select mv.MID from Movie mv where CAST(SUBSTR(mv.year,-4) AS Integer)>1990
         ) r1
         on r1.PD=p.PID """
         print(grader_3a(query_less_1970, query_more_1990))
         # using the above two queries, you can find the answer to the given question
         (4942, 1)
```

(4942, 1) (62570, 1) True Wall time: 233 ms

```
In [25]: %%time
         def grader_3(q3):
             q3_results = pd.read_sql_query(q3,conn)
             print(q3_results.head(10))
             assert (q3_results.shape == (300,1))
         query3 = """
         SELECT DISTINCT p.Name
         (Select p.PID from Person p
         inner join
             select trim(mc.PID) PD, mc.MID from M_cast mc
         where mc.MID
         in
         (
             select mv.MID from Movie mv where CAST(SUBSTR(mv.year,-4) AS Integer)<1970</pre>
         ) r1
         on r1.PD=p.PID) p1,Person p
         WHERE p1.PID IN
         (Select p.PID from Person p
             select trim(mc.PID) PD, mc.MID from M_cast mc
         where mc.MID
         in
         (
             select mv.MID from Movie mv where CAST(SUBSTR(mv.year,-4) AS Integer)>1990
         )
         ) r1
         on r1.PD=p.PID) AND p.PID = p1.PID
         grader_3(query3)
```

```
Name

Waheeda Rehman

Mehmood

Ratna

Rajendra Kumar

Raj Mehra

Raj Mehra

Lalita Pawar

Achala Sachdev

Sunil Dutt

Wall time: 283 ms
```

Q4 --- List all directors who directed 10 movies or more, in descending order of the number of movies they directed. Return the directors' names and the number of movies each of them directed.

```
In [26]: %%time
         def grader_4a(query_4a):
             query_4a = pd.read_sql_query(query_4a,conn)
             print(query_4a.head(10))
             return (query_4a.shape == (1462,2))
         query_4a ="""
         Select trim(PID) as Director_ID,count(MID) as Movie_Count
         From M_Director
         group by trim(PID)
         order by Movie_Count desc
         print(grader_4a(query_4a))
           Director_ID Movie_Count
             nm0223522
             nm0080315
                                 35
             nm0890060
                                 30
         3
             nm0698184
                                 30
             nm0080333
                                 29
             nm0611531
                                 27
             nm0007181
                                 21
             nm0759662
                                 19
         8
             nm0154113
                                 19
             nm0007131
         True
         Wall time: 6.83 ms
```

```
Director_Name Movie_Count
0
           David Dhawan
           Mahesh Bhatt
                                  35
         Ram Gopal Varma
                                  30
           Priyadarshan
3
                                  30
           Vikram Bhatt
                                  29
4
   Hrishikesh Mukherjee
                                  27
6
            Yash Chopra
                                  21
         Shakti Samanta
                                  19
                                  19
8
         Basu Chatterjee
9
           Subhash Ghai
                                  18
(58, 2)
Wall time: 54.2 ms
```

Type $\it Markdown$ and LaTeX: $\it \alpha^2$

Q5.a --- For each year, count the number of movies in that year that had only female actors.

```
In [28]: %%time
         # note that you don't need TRIM for person table
         def grader_5aa(query_5aa):
             query_5aa = pd.read_sql_query(query_5aa,conn)
             print(query_5aa.head(10))
             return (query_5aa.shape == (8846,3))
         query_5aa ="""
         Select mc.MID,p.Gender,Count(*)
         From M_Cast mc, Person p
         Where trim(mc.PID) = p.PID
         group by mc.MID,p.Gender
         print(grader_5aa(query_5aa))
         def grader_5ab(query_5ab):
             query_5ab = pd.read_sql_query(query_5ab,conn)
             print(query_5ab.head(10))
             return (query_5ab.shape == (3469, 3))
         query_5ab ="""
         Select mc.MID,p.Gender,Count(*)From M_Cast mc, Person p
         Where trim(mc.PID) = p.PID
         group by mc.MID,p.Gender
         HAVING (p.Gender= 'Male' AND Count(*)!=0)
         print(grader_5ab(query_5ab))
         #using the above queries, you can write the answer to the given question
```

```
MID Gender Count(*)
0 tt0021594
            None
1 tt0021594 Female
  tt0021594
            Male
             None
 tt0026274
4 tt0026274 Female
                       11
  tt0026274 Male
6 tt0027256
            None
  tt0027256 Female
8 tt0027256
            Male
9 tt0028217 Female
True
       MID Gender Count(*)
0 tt0021594
            Male
1 tt0026274
            Male
2 tt0027256
            Male
  tt0028217
            Male
4 tt0031580 Male
5 tt0033616
            Male
                       46
6 tt0036077
            Male
                      11
7 tt0038491
            Male
  tt0039654
            Male
9 tt0040067
            Male
                      10
True
Wall time: 281 ms
```

```
In [29]: %%time
         def grader_5a(q5a):
             q5a_results = pd.read_sql_query(q5a,conn)
             print(q5a_results.head(10))
             assert (q5a_results.shape == (4,2))
         query5a = """
         SELECT CAST(SUBSTR(m.year,-4) AS Integer) as YEAR,count(m.MID) as Female_Cast_Only_Movies
         (Select mc.MID,p.Gender,Count(*)
         From M_Cast mc, Person p
         Where trim(mc.PID) = p.PID
         group by mc.MID,p.Gender) as m_all,Movie m
         WHERE m_all.MID not in (Select mc.MID
                                     From M Cast mc, Person p
                                     Where trim(mc.PID) = p.PID
                                      group by mc.MID,p.Gender
                                      HAVING (p.Gender= 'Male' AND Count(*)!=0))
         and m_all.MID = m.MID
         GROUP BY CAST(SUBSTR(m.year,-4) AS Integer)
         grader_5a(query5a)
            YEAR Female_Cast_Only_Movies
           1939
            1999
                                        1
         2 2000
                                        1
            2018
                                        1
         Wall time: 287 ms
```

Q5.b --- Now include a small change: report for each year the percentage of movies in that year with only female actors, and the total number of movies made that year. For example, one answer will be: 1990 31.81 13522 meaning that in 1990 there were 13,522 movies, and 31.81% had only female actors. You do not need to round your answer.

```
In [ ]:
In [30]: %%time
         def grader_5b(q5b):
             q5b_results = pd.read_sql_query(q5b,conn)
             print(q5b_results.head(10))
             assert (q5b_results.shape == (4,3))
         query5b = """
         SELECT m.year,(fm.Female_Cast_Only_Movies+0.0)/count(MID) as Percentage_Female_Only_Movie,count(MID) as Total_Movies
         FROM (SELECT CAST(SUBSTR(m.year,-4) AS Integer) as YEAR,count(m.MID) as Female_Cast_Only_Movies
                 (Select mc.MID,p.Gender,Count(*)
                 From M_Cast mc, Person p
                 Where trim(mc.PID) = p.PID
                 group by mc.MID,p.Gender) as m_all,Movie m
                 WHERE m_all.MID not in (Select mc.MID
                                             From M_Cast mc, Person p
                                             Where trim(mc.PID) = p.PID
                                             group by mc.MID,p.Gender
                                             HAVING (p.Gender= 'Male' AND Count(*)!=0))
                 and m_all.MID = m.MID
                 GROUP BY CAST(SUBSTR(m.year,-4) AS Integer) ) fm
         INNER JOIN Movie m ON fm.YEAR = CAST(SUBSTR(m.year,-4) AS Integer)
         GROUP BY CAST(SUBSTR(m.year,-4) AS Integer)
         grader_5b(query5b)
            year Percentage_Female_Only_Movie Total_Movies
         0 1939
                                      0.500000
                                                           2
            1999
                                      0.015152
                                                           66
            2000
                                      0.015625
                                                          64
            2018
                                      0.009615
                                                          104
         Wall time: 288 ms
```

Q6 --- Find the film(s) with the largest cast. Return the movie title and the size of the cast. By "cast size" we mean the number of distinct actors that played in that movie: if an actor played multiple roles, or if it simply occurs multiple times in casts, we still count her/him only once.

```
0
               Ocean's Eight
                                238
1
                                233
                    Apaharan
2
                        Gold
                                215
             My Name Is Khan
                                213
  Captain America: Civil War
                                191
                    Geostorm
                                170
                     Striker
                                165
                        2012
                                154
                      Pixels
                                144
       Yamla Pagla Deewana 2
                                140
Wall time: 88.7 ms
```

Q7 --- A decade is a sequence of 10 consecutive years.

For example, say in your database you have movie information starting from 1931.

the first decade is 1931, 1932, ..., 1940,

the second decade is 1932, 1933, ..., 1941 and so on.

Find the decade D with the largest number of films and the total number of films in D

```
Movie_Year Total_Movies
0
         1931
                          1
1
         1936
                          3
         1939
         1941
         1943
         1946
6
         1947
         1948
         1949
        1950
Wall time: 6 ms
```

```
SQL sample queries - Jupyter Notebook
In [33]: %%time
         def grader_7b(q7b):
             q7b_results = pd.read_sql_query(q7b,conn)
             print(q7b_results.head(10))
             assert (q7b_results.shape == (713, 4))
             # ***
             # Write a query that will do joining of the above table(7a) with itself
             # such that you will join with only rows if the second tables year is <= current_year+9 and more than or equal current_year
         query7b ="""
         Select ym1.Movie_Year,ym1.Total_Movies,ym2.Movie_Year,ym2.Total_Movies
         From (Select CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) as Movie_Year,Count(*) as Total_Movies
         Group by CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)) ym1,
         (Select CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) as Movie_Year,Count(*) as Total_Movies
         From Movie m
         Group by CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)) ym2
         Where ym1.Movie_Year <= ym2.Movie_Year and ym2.Movie_Year <= ym1.Movie_Year + 9
         grader_7b(query7b)
         # if you see the below results the first movie year is less than 2nd movie year and
         # 2nd movie year is less or equal to the first movie year+9
         # using the above query, you can write the answer to the given question
            Movie_Year Total_Movies Movie_Year Total_Movies
         a
                  1931
                                   1
                                            1931
                                                              1
         1
                  1931
                                   1
                                             1936
                                                              3
                  1931
                                             1939
                                   1
                  1936
                                            1936
         3
                                                              3
                                   3
                  1936
                                            1939
         4
                                   3
                                                              2
                  1936
                                   3
                                            1941
                                                              1
                  1936
                                             1943
         6
                                   3
                  1939
                                   2
                                            1939
                                                              2
         8
                  1939
                                            1941
                                   2
                                                              1
                  1939
                                   2
                                            1943
                                                              1
         Wall time: 10 ms
 In [ ]:
In [34]: %%time
         def grader 7(q7):
             q7_results = pd.read_sql_query(q7,conn)
             print(q7_results.head(10))
             assert (q7_results.shape == (1, 2))
         # CONCAT(Cast(ym1.Movie_Year as varchar(10)),'-',Cast(max(ym2.Movie_Year) as varchar(10)))
         query7 = ""
         SELECT S_YEAR,max(count)
               (Select ym1_Movie_Year as S_YEAR ,max(ym2_Movie_Year) as E_YEAR , SUM(ym2_Total_Movies) as count
                 From(Select ym1.Movie_Year as ym1_Movie_Year,ym1.Total_Movies as ym1_Total_Movies,ym2.Movie_Year as ym2_Movie_Year,ym2.To
                         From (Select CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER) as Movie_Year,Count(*) as Total_Movies
                         From Movie m
                         Group by CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)) ym1,
                         (Select CAST(SUBSTR(TRIM(m.year), -4) AS INTEGER) as Movie Year, Count(*) as Total Movies
```

```
S_YEAR max(count)
    2008
                1203
Wall time: 8.16 ms
```

grader_7(query7)

From Movie m

GROUP BY ym1_Movie_Year)

Group by CAST(SUBSTR(TRIM(m.year),-4) AS INTEGER)) ym2

Where ym1.Movie_Year <= ym2.Movie_Year and ym2.Movie_Year <= ym1.Movie_Year + 9)

if you check the output we are printinng all the year in that decade, its fine you can print 2008 or 2008-2017

Q8 --- Find all the actors that made more movies with Yash Chopra than any other director.

```
In [35]: %%time
         def grader_8a(q8a):
             q8a_results = pd.read_sql_query(q8a,conn)
            print(q8a_results.head(10))
            assert (q8a_results.shape == (73408, 3))
         query8a = """
         SELECT mc.PID as Actor,md.PID as Director,count(*)
         FROM M_Cast mc, M_Director md
         WHERE mc.MID = md.MID
         GROUP BY mc.PID,md.PID
         grader_8a(query8a)
         # using the above query, you can write the answer to the given question
                 Actor Director count(*)
         0
            nm0000002 nm0496746
                                         1
            nm0000027
                       nm0000180
                                         1
            nm0000039 nm0896533
            nm0000042 nm0896533
            nm0000047 nm0004292
                                         1
            nm0000073 nm0485943
            nm0000076
                       nm0000229
                                         1
            nm0000092 nm0178997
            nm0000093 nm0000269
                                         1
            nm0000096 nm0113819
         Wall time: 229 ms
```

```
In [36]: %%time
         def grader_8(q8):
             q8_results = pd.read_sql_query(q8,conn)
             print(q8_results.head(10))
             print(q8_results.shape)
             assert (q8_results.shape == (245, 2))
         query8 = """
         SELECT p.Name, yash.count
         From Person p INNER JOIN
         (SELECT with_yash.Actor,
         (CASE
         WHEN with_out_yash.Actor IS NULL THEN with_yash.count
         WHEN (with_yash.count - with_out_yash.count) >= 0 THEN with_yash.count
         END) as Count
         FROM
         (SELECT mc.PID as Actor,count(*) as count
         FROM M_Cast mc, M_Director md
         WHERE mc.MID = md.MID AND md.PID IN (SELECT PID
                                             FROM Person
                                             WHERE trim(Name) LIKE '%Yash %Chopra%')
         GROUP BY mc.PID) with_yash
         Left OUTER JOIN
         (SELECT Actor, max(count) as count
         FROM (SELECT mc.PID as Actor,md.PID,count(*) as count
         FROM M_Cast mc, M_Director md
         WHERE mc.MID = md.MID AND md.PID != (SELECT PID
                                             FROM Person
                                             WHERE trim(Name) = 'Yash Chopra')
         GROUP BY mc.PID,md.PID)
         GROUP BY Actor)with_out_yash ON with_yash.Actor = with_out_yash.Actor
         ORDER BY count DESC) yash ON trim(p.PID) = trim(yash.Actor)
         WHERE yash.count IS NOT NULL
         ORDER BY yash.count DESC;
         grader_8(query8)
```

```
Name Count
        Jagdish Raj
                        11
   Manmohan Krishna
           Iftekhar
                         9
2
      Shashi Kapoor
                         7
3
      Rakhee Gulzar
                         5
4
5
     Waheeda Rehman
                         5
           Ravikant
     Achala Sachdev
                         4
8
       Neetu Singh
                         4
      Leela Chitnis
                         3
(245, 2)
Wall time: 1.78 s
```

Q9 --- The Shahrukh number of an actor is the length of the shortest path between the actor and Shahrukh Khan in the "co-acting" graph. That is, Shahrukh Khan has Shahrukh number 0; all actors who acted in the same film as Shahrukh have Shahrukh number 1; all actors who acted in the same film as some actor with Shahrukh number 1 have Shahrukh number 2, etc. Return all actors whose Shahrukh number is 2.

```
In [37]: %%time
         def grader_9a(q9a):
             q9a_results = pd.read_sql_query(q9a,conn)
             print(q9a results.head(10))
             print(q9a_results.shape)
             assert (q9a_results.shape == (2382, 1))
         query9a = """
         SELECT DISTINCT mc.PID as S1 PID
         FROM M_Cast mc INNER JOIN (SELECT MID
                                     FROM M_Cast
                                     WHERE trim(PID) = (SELECT trim(p.PID)
                                                     FROM Person p
                                                     WHERE trim(p.Name) LIKE '%Shah%rukh%Khan%')) m ON mc.MID = m.MID
         WHERE trim(mc.PID) != (SELECT trim(p.PID) FROM Person p WHERE trim(p.Name) LIKE '%Shah%rukh%Khan%')
         grader_9a(query9a)
         # using the above query, you can write the answer to the given question
         # selecting actors who acted with srk (S1)
         # selecting all movies where S1 actors acted, this forms S2 movies list
         # selecting all actors who acted in S2 movies, this gives us S2 actors along with S1 actors
         # removing S1 actors from the combined list of S1 & S2 actors, so that we get only S2 actors
```

```
S1_PID
0 nm0004418
1 nm1995953
2 nm2778261
3 nm0631373
4 nm0241935
5 nm0792116
6 nm1300111
7 nm0196375
8 nm1464837
9 nm2868019
(2382, 1)
Wall time: 655 ms
```

```
In [38]: %%time
          def grader_9(q9):
              q9_results = pd.read_sql_query(q9,conn)
              print(q9_results.head(10))
              print(q9_results.shape)
              assert (q9_results.shape == (25698, 1))
          query9 = """
          SELECT p.Name as Actor_Name
          FROM Person p
          WHERE trim(p.PID) IN
          (SELECT DISTINCT trim(mc.PID)
          FROM M_Cast mc INNER JOIN (SELECT DISTINCT mc.MID
                                       FROM M_Cast mc INNER JOIN (SELECT DISTINCT mc.PID
                                                                  FROM M_Cast mc INNER JOIN (SELECT MID
                                                                                                FROM M_Cast
                                                                                                WHERE \operatorname{trim}(\operatorname{PID}) = (\operatorname{SELECT} \operatorname{trim}(\operatorname{p.PID}))
                                                                                                                  FROM Person p
                                                                                                                  WHERE trim(p.Name) LIKE '%Shah%ru
                                                                  WHERE trim(mc.PID) != (SELECT trim(p.PID) FROM Person p WHERE trim(p.Name) LI
          WHERE mc.PID not in (SELECT DISTINCT mc.PID as S1_PID
                                FROM M_Cast mc INNER JOIN (SELECT MID
                                                                  FROM M_Cast
                                                                  WHERE trim(PID) = (SELECT trim(p.PID)
                                                                                   FROM Person p
                                                                                   WHERE trim(p.Name) LIKE '%Shah%rukh%Khan%')) m ON mc.MID = m.
          grader_9(query9)
                          Actor_Name
                        Freida Pinto
          1
                         Rohan Chand
          2
                        Damian Young
                     Waris Ahluwalia
              Caroline Christl Long
                       Rajeev Pahuja
                  Michelle Santiago
                     Alicia Vikander
          8
                        Dominic West
                      Walton Goggins
          (25698, 1)
          Wall time: 1.01 s
 In [ ]:
```