IMDB DATABASE: -

```
1. create database IMDBTA;
   Query OK, 1 row affected (0.00 sec)
2. use IMDBTA;
   Database changed
3. create table titlebasics(tconst varchar(20) primary key,
titleType varchar(20), primaryTitle varchar(50), originalTitle
varchar(50), isAdult int, startYear int, endYear int,
runtimeMinutes int, genres varchar(50));
    Query OK, 0 rows affected (0.52 sec)
4. desc titlebasics;
    | Field | Type | Null | Key | Default |
Extra |
   | tconst
   | titleType | varchar(20) | YES | NULL
   | primaryTitle | varchar(50) | YES | NULL |
   | originalTitle | varchar(50) | YES |
                                  | NULL
                                          | isAdult | int(11) | YES | NULL
   | startYear | int(11) | YES | NULL |
   | endYear | int(11) | YES | NULL |
   | runtimeMinutes | int(11) | YES |
                                  | NULL |
    | genres | varchar(50) | YES | NULL |
    9 rows in set (0.00 sec)
4.b python3 controller.py
    f=open('titlebasics/data.tsv','r')
   s=f.read().split('\n')[:20000]
   f.close()
   s1=[]
    for i in s:
       i=list(i.split('\t'))
       j=i[-1].split(',')
```

```
s1.append("\t".join(i[:-1]+[j[0]]))
    s=s1
    f1=open('titlebasics/data1.tsv','w')
    f1.write("\n".join(s))
    f1.close()
5. load data local infile "/home/tejkiran/DBMS mini Project
2/titlebasics/data1.tsv" into table titlebasics fields terminated
by '\t' lines terminated by '\n';
    Query OK, 20000 rows affected, 301 warnings (0.36 sec)
    Records: 20000 Deleted: 0 Skipped: 0 Warnings: 301
    create table namebasics (nconst varchar(20) primary key,
primaryName varchar(50), birthYear int, deathYear int,
primaryProfession varchar(50), knownForTitles varchar(20),
foreign key namebasics(knownForTitles) references
titlebasics(tconst));
    Query OK, 0 rows affected (0.58 sec)
7. desc namebasics;
   | Type | Null | Key | Default |
   | Field
   | nconst | varchar(20) | NO | PRI | NULL |
   | primaryName | varchar(50) | YES | NULL |
   | birthYear | int(11) | YES | NULL |
   | primaryProfession | varchar(50) | YES | | NULL |
    | knownForTitles | varchar(20) | YES | MUL | NULL |
    +----+
    6 rows in set (0.00 sec)
7.b
    f=open('namebasics/data.tsv','r')
    s=f.read().split('\n')[:2779]
    f.close()
    s1=[]
    for i in s:
        i=list(i.split('\t'))
        j1=i[-2].split(',')
        j2=i[-1].split(',')
        s1.append("\t".join(i[:-2]+[j1[0]]+[j2[0]]))
```

```
f1=open('namebasics/data1.tsv','w')
    f1.write("\n".join(s))
    f1.close()
   load data local infile "/home/tejkiran/DBMS mini Project
2/namebasics/data1.tsv" into table namebasics fields terminated
by '\t' lines terminated by '\n';
    Query OK, 19727 rows affected, 272 warnings (6.92 sec)
    Records: 19999 Deleted: 0 Skipped: 272 Warnings: 272
9. create table ratings(tconst varchar(20), averageRating float,
numVotes int, foreign key ratings(tconst) references
titlebasics(tconst));
Query OK, 0 rows affected (0.70 sec)
10. desc ratings;
    +-----
   | Field | Type | Null | Key | Default | Extra
    +----
   | tconst | varchar(20) | YES | MUL | NULL
| averageRating | float | YES | NULL |
    | numVotes | int(11) | YES | NULL |
    +----
    3 rows in set (0.00 sec)
11. load data local infile "/home/tejkiran/DBMS mini Project
2/ratings/data1.tsv" into table ratings fields terminated by '\t'
lines terminated by '\n';
    Query OK, 4807 rows affected (2.71 sec)
    Records: 4807 Deleted: 0 Skipped: 0 Warnings: 0
12. create table crew(tconst varchar(20), director varchar(50),
writer varchar(50), foreign key crew(tconst) references
titlebasics(tconst) );
    Query OK, 0 rows affected (0.66 sec)
12. desc crew;
    +----+
    | Field | Type | Null | Key | Default | Extra |
    +----+
    | tconst | varchar(20) | YES | MUL | NULL |
    | director | varchar(50) | YES | NULL | writer | varchar(50) | YES | NULL |
    | writer | varchar(50) | YES |
    +----+
```

s=s1

3 rows in set (0.00 sec)

13. load data local infile "/home/tejkiran/DBMS mini Project 2/crew/data1.tsv" into table crew fields terminated by '\t' lines terminated by '\n';
Query OK, 19999 rows affected (5.48 sec)

Records: 19999 Deleted: 0 Skipped: 0 Warnings: 0

14. Query1: Find the directorNames who are over 50 years of age whose movies have had a rating between 4 and 9 and titleType='short' or 'movie'

select distinct primaryName from namebasics join crew on namebasics.nconst=crew.director join ratings on crew.tconst=ratings.tconst join titlebasics on ratings.tconst=titlebasics.tconst where namebasics.birthYear<= 1968 and ratings.averageRating>=4 and titlebasics.titleType='short' or titlebasics.titleType='movie';

(A) with no indexing:

```
+----+
| William K.L. Dickson
| Birt Acres
| FructuÃf³s Gelabert
| Siegmund Lubin
| G.W. Bitzer
| Gilbert M. 'Broncho Billy' Anderson |
| D.W. Griffith
| Herbert Beerbohm Tree
| Michael Curtiz
| Oscar Apfel
| Cecil B. DeMille
| Charles Chaplin
| Roscoe 'Fatty' Arbuckle
| Harry Carey
| John G. Adolfi
| Maurice Elvey
| John Ford
| Harry Davenport
| Erich von Stroheim
| Fritz Lang
| Victor Schertzinger
| F.W. Murnau
| Carl Theodor Dreyer
| John McDermott
| Lillian Gish
| Buster Keaton
| William F. Adler
| George Archainbaud
| Rex Ingram
```

```
| King Baggot
     | Ludwig Berger
     | Phil Rosen
     | Dorothy Arzner
    | Walt Disney
    | Legaren Ãf Hiller
     | Sergei M. Eissenstein
     | Kenji Mizoguchi
     | Ivan Abramson
     | Victor Adamson
     | James P. Hogan
     | Alan Hale
     | Charles Lamont
     | Alfred Hitchcock
     | Howard Hawks
     | Edwin B. DuPar
     | Frank Capra
     | Byron Haskin
     | Grigoriy Aleksandrov
     | Anthony Asquith
    | Harry Langdon
    | Marc AllÃf©gret
    | Nina Agadzhanova
    | George Abbott
     | Lionel Barrymore
     +-----
     54 rows in set (0.06 sec)
     (B) with BTree indexing on titleType
     alter table titlebasics add index index2(titleType);
     Query OK, 0 rows affected (2.30 sec)
    Records: 0 Duplicates: 0 Warnings: 0
     select distinct primaryName from namebasics join crew on
namebasics.nconst=crew.director join ratings on
crew.tconst=ratings.tconst join titlebasics on
ratings.tconst=titlebasics.tconst where namebasics.birthYear<=
1968 and ratings.averageRating>=4 and
titlebasics.titleType='short' or titlebasics.titleType='movie';
     +----+
     | primaryName
     +----+
     | William K.L. Dickson
     | Birt Acres
     | FructuÃf³s Gelabert
     | Siegmund Lubin
     | G.W. Bitzer
     | Gilbert M. 'Broncho Billy' Anderson |
     | D.W. Griffith
     | Herbert Beerbohm Tree
```

| Michael Curtiz

```
| Oscar Apfel
| Cecil B. DeMille
| Charles Chaplin
| Roscoe 'Fatty' Arbuckle
| Harry Carey
| John G. Adolfi
| Maurice Elvey
| John Ford
| Harry Davenport
| Erich von Stroheim
| Fritz Lang
| Victor Schertzinger
| F.W. Murnau
| Carl Theodor Drever
| John McDermott
| Lillian Gish
| Buster Keaton
| William F. Adler
| George Archainbaud
| Rex Ingram
| King Baggot
| Ludwig Berger
| Phil Rosen
| Dorothy Arzner
| Walt Disney
| Legaren Ãf Hiller
| Sergei M. Eisenstein
| Kenji Mizoguchi
| Ivan Abramson
| Victor Adamson
| James P. Hogan
| Alan Hale
| Charles Lamont
| Alfred Hitchcock
| Howard Hawks
| Edwin B. DuPar
| Frank Capra
| Byron Haskin
| Grigoriy Aleksandrov
| Anthony Asquith
| Harry Langdon
| Marc Allãfâ©gret
| Nina Agadzhanova
| George Abbott
| Lionel Barrymore
+-----
54 rows in set (0.04 sec)
```

15. Query2: Find the top movieNames and its director, which is a non-adult comedy film, having averageRating > 3 and directed by a person whose name starts does not start with vowels sorted by its movienames.

select distinct titlebasics.primaryTitle,
namebasics.primaryName from namebasics join crew on
namebasics.nconst=crew.director join ratings on
crew.tconst=ratings.tconst join titlebasics on
ratings.tconst=titlebasics.tconst where titlebasics.isAdult=0 and
titlebasics.genres='comedy' and ratings.averageRating>3 and
namebasics.primaryName not like 'a%' and namebasics.primaryName
not like 'e%'and namebasics.primaryName not like 'i%'and
namebasics.primaryName not like 'o%'and namebasics.primaryName
not like 'u%' order by titlebasics.primaryTitle;

| + | + |
|---|------------|
| + | I |
| primaryTitle | l |
| primaryName | 1 |
| + | + |
| + | |
| A Calamitous Elopement | D.W. |
| Griffith | |
| A Country Hero | 1 |
| Roscoe 'Fatty' Arbuckle | |
| A Day's Pleasure | l |
| Charles Chaplin | 1 |
| A Dog's Life | İ |
| Charles Chaplin | I Taba |
| A Gun Fightin' Gentleman Ford | John |
| A Hard Wash | I |
| William K.L. Dickson | i |
| A Jitney Elopement | I |
| Charles Chaplin | 1 |
| A Night in the Show | I |
| Charles Chaplin | J |
| A Night Out | l |
| Charles Chaplin | 1 |
| A Reckless Romeo | |
| Roscoe 'Fatty' Arbuckle | |
| A Woman | |
| Charles Chaplin | |
| A Woman's Fool | John |
| Ford | |
| Alkali Ike's Auto | 1 |
| Gilbert M. 'Broncho Billy' Anderson | |
| An Awful Skate; or, The Hobo on Rollers | l |
| Gilbert M. 'Broncho Billy' Anderson | |
| An Incompetent Hero | l |
| Roscoe 'Fatty' Arbuckle | ı |
| Back Stage | i |
| Roscoe 'Fatty' Arbuckle Balked at the Altar | I D.W. |
| Griffith | , D • VV • |
| Battling Butler | I |
| 1 200022119 200101 | J |

| Buster Keaton | I | | |
|---|----------------|---|-------|
| Behind the Screen | | | |
| Charles Chaplin | | | |
| Broadway Scandals | | | |
| George Archainbaud | | | |
| By the Sea | ı | | |
| Charles Chaplin | | | |
| Caught in the Rain Charles Chaplin | I | | |
| Chimmie Fadden Out West | | ı | Cecil |
| B. DeMille | | 1 | CECII |
| Choosing a Husband | | ı | D.W. |
| Griffith | | ' | 2 |
| College | | I | |
| Buster Keaton | | | |
| Coney Island | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Cops | | | |
| Buster Keaton | | | |
| Dan the Dandy | | | D.W. |
| Griffith | | | |
| Don't Change Your Husband | | | Cecil |
| B. DeMille | | | |
| Dough and Dynamite | | | |
| Charles Chaplin | | | |
| Easy Street | | | |
| Charles Chaplin | | | D 5-7 |
| Eradicating Aunty | | | D.W. |
| Griffith Examination Day at School | | ı | D.W. |
| Griffith | | 1 | D.W. |
| Father Gets in the Game | | ı | D.W. |
| Griffith | | 1 | D.W. |
| Fatty and Mabel Adrift | | ı | |
| Roscoe 'Fatty' Arbuckle | I | ' | |
| Fatty and Mabel at the San Di | ego Exposition | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty and Mabel's Simple Life | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty and Minnie He-Haw | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty's Chance Acquaintance | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty's Faithful Fido | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty's Jonah Day | | | |
| Roscoe 'Fatty' Arbuckle | | | |
| Fatty's Magic Pants | I | | |
| Roscoe 'Fatty' Arbuckle Fatty's New Role | I | ı | |
| Roscoe 'Fatty' Arbuckle | I | I | |
| Fatty's Plucky Pup | I | ı | |
| 1 Lacey o Liacity Lup | | 1 | |

| Roscoe 'Fatty' Arbuckle | |
|--|---------|
| Fatty's Reckless Fling | |
| Roscoe 'Fatty' Arbuckle | |
| Fatty's Tintype Tangle | I |
| Roscoe 'Fatty' Arbuckle | ı |
| Howard Hawks | 1 |
| Finances of the Grand Duke | F.W. |
| Murnau | 1 - *** |
| Gentlemen of Nerve | I |
| Charles Chaplin | |
| Get Your Man | |
| Dorothy Arzner | |
| Getting Acquainted | |
| Charles Chaplin | |
| Getting Even | D.W. |
| Griffith | |
| Glad Rag Doll | |
| Michael Curtiz | |
| Go West | |
| Buster Keaton | T. |
| Good Night, Nurse! | I |
| Roscoe 'Fatty' Arbuckle Hard Boiled | I |
| Victor Schertzinger | I |
| He Did and He Didn't | I |
| Roscoe 'Fatty' Arbuckle | 1 |
| Her First Biscuits | L D 57 |
| | D.W. |
| Griffith | D.W. |
| · | D.W. |
| Griffith His Musical Career Charles Chaplin | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Trysting Place | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park | D.W. |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park Charles Chaplin Jones and the Lady Book Agent Griffith | |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park Charles Chaplin Jones and the Lady Book Agent Griffith Just Pals | |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park Charles Chaplin Jones and the Lady Book Agent Griffith Just Pals Ford | |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park Charles Chaplin Jones and the Lady Book Agent Griffith Just Pals Ford Kane | |
| Griffith His Musical Career Charles Chaplin His New Job Charles Chaplin His New Profession Charles Chaplin His Prehistoric Past Charles Chaplin His Trysting Place Charles Chaplin His Wedding Night Roscoe 'Fatty' Arbuckle His Wife's Mistakes Roscoe 'Fatty' Arbuckle In the Park Charles Chaplin Jones and the Lady Book Agent Griffith Just Pals Ford | |

| Griffith | | |
|---|---|-------|
| Laughing Gas | 1 | |
| Charles Chaplin | | |
| Leading Lizzie Astray | 1 | |
| Roscoe 'Fatty' Arbuckle | Ċ | |
| Leap Year | 1 | |
| Roscoe 'Fatty' Arbuckle | Ċ | |
| Lightnin' | 1 | John |
| Ford | | |
| Long Pants | Τ | Frank |
| Capra | ' | |
| Love | Τ | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Love and Bullets | ı | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Lover's Luck | ı | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Mabel and Fatty's Married Life | ı | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Mabel and Fatty's Wash Day | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | |
| Mabel's Wilful Way | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | |
| Mabel, Fatty and the Law | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | |
| Maid in Morocco | 1 | |
| · | 1 | |
| Charles Lamont | | |
| Miss Fatty's Seaside Lovers | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | D 147 |
| Monday Morning in a Coney Island Police Court | | D.W. |
| Griffith | | TZ |
| Moonlight Follies | 1 | King |
| Baggot | | |
| Moonshine | | |
| Roscoe 'Fatty' Arbuckle | | D 57 |
| Mr. Jones at the Ball | | D.W. |
| Griffith | | |
| Mr. Jones Has a Card Party | | D.W. |
| Griffith | | |
| Mrs. Jones Entertains | | D.W. |
| Griffith | | |
| Mrs. Jones' Lover; or, 'I Want My Hat' | | D.W. |
| Griffith | | |
| Muggsy's First Sweetheart | | D.W. |
| Griffith | | |
| Naughty Boy | | |
| Charles Lamont | | |
| Oh Doctor! | | |
| Roscoe 'Fatty' Arbuckle | | |
| One A.M. | | |
| Charles Chaplin | | |
| Out West | | |

| Roscoe 'Fatty' Arbuckle | | |
|---|-------|---------------|
| Paid to Love | | |
| Howard Hawks | | |
| Pay Day | | |
| Charles Chaplin | | |
| Police | ١ | |
| Charles Chaplin | | |
| Recreation | ١ | |
| Charles Chaplin | | |
| Remodeling Her Husband | - | |
| Lillian Gish | | |
| Riley the Cop | - | John |
| Ford | | |
| Rip Van Winkle | | |
| William K.L. Dickson | | |
| Roped | | John |
| Ford | | |
| Sally of the Sawdust | | D.W. |
| Griffith | | |
| Saturday Night | | Cecil |
| B. DeMille | | |
| Say It with Sables | | Frank |
| Capra | | |
| Seven Chances | | |
| Buster Keaton | | |
| Shanghaied | | |
| Charles Chaplin | | |
| Shoulder Arms | | |
| Charles Chaplin | | |
| So This Is Love | | Frank |
| Capra | | |
| Special Delivery | | |
| Roscoe 'Fatty' Arbuckle | | |
| Stupid, But Brave | | |
| Roscoe 'Fatty' Arbuckle | | |
| Sunnyside | | |
| Charles Chaplin | | |
| Charles Chapith | - [| D.W. |
| | | |
| Taming a Husband Griffith | Ċ | |
| Taming a Husband | ı | John |
| Taming a Husband Griffith | 1 | John |
| Taming a Husband Griffith Thank You Ford | · | John Frank |
| Taming a Husband Griffith Thank You Ford That Certain Thing | | |
| Taming a Husband Griffith Thank You Ford That Certain Thing Capra | | |
| Taming a Husband Griffith Thank You Ford That Certain Thing Capra That Little Band of Gold | | |
| Taming a Husband Griffith | | Frank |
| Taming a Husband Griffith Thank You Ford That Certain Thing Capra That Little Band of Gold | | |
| Taming a Husband Griffith | | Frank |
| Taming a Husband Griffith | | Frank |
| Taming a Husband Griffith | | Frank D.W. |
| Taming a Husband Griffith | | Frank |
| Taming a Husband Griffith | | Frank D.W. |

| Griffith | | |
|-------------------------------|---|----------|
| The Balloonatic | ı | |
| Buster Keaton | | |
| The Bank | | |
| Charles Chaplin | | |
| The Battle of the Sexes | | D.W. |
| Griffith | | |
| The Bell Boy | | |
| Roscoe 'Fatty' Arbuckle | | |
| The Bond | | |
| Charles Chaplin | | |
| The Butcher Boy | | |
| Roscoe 'Fatty' Arbuckle | | |
| The Champion | | |
| Charles Chaplin | | |
| The Chaser | | Harry |
| Langdon | | |
| The Christmas Burglars | | D.W. |
| Griffith | | |
| The Circus | | |
| Charles Chaplin | | |
| The Clubman and the Tramp | | D.W. |
| Griffith | | |
| The Cook | | |
| Roscoe 'Fatty' Arbuckle | | |
| The Count | | |
| Charles Chaplin | | |
| The Cradle Snatchers | | |
| Howard Hawks | | |
| The Cure | | |
| Charles Chaplin | | . |
| The Day After | | D.W. |
| Griffith | | D 13 |
| The Englishman and the Girl | | D.W. |
| Griffith | | |
| The Face on the Barroom Floor | ı | |
| Charles Chaplin | | D 13 |
| The Fascinating Mrs. Francis | ı | D.W. |
| Griffith | | |
| The Fighting Dude | ı | |
| Roscoe 'Fatty' Arbuckle | | |
| The Fireman | ı | |
| Charles Chaplin | | |
| The Floorwalker | ı | |
| Charles Chaplin | | D 147 |
| The French Duel | ı | D.W. |
| Griffith | | |
| The Garage | ı | |
| Roscoe 'Fatty' Arbuckle | | D 1-7 |
| The Gibson Goddess | ı | D.W. |
| Griffith | | |
| The Goat | | |

| The Good-for-Nothing Gilbert M. 'Broncho Billy' Anderson The Hayseed The Hayseed The Idle Class The Idle Class The Idle Class The Idle Class The Immigrant The Immigrant The Italian Barber D.W. The Joneses Have Amateur Theatricals D.W. The Joneses Have Amateur Theatricals D.W. The Kid The Kid The Kid D.W. The Masquerader The Masquerader The Matinee Idol Frank The Movies The New Janitor The New Janitor The Newlyweds The Paleface The Parson's Widow Carl The Parson's Widow Carl The Peachbasket Hat D.W. Griffith | Buster Keaton | | |
|--|----------------------|---|-----------|
| The Hayseed Roscoe 'Fatty' Arbuckle | The Good-for-Nothing | | |
| Roscoe 'Fatty' Arbuckle The Idle Class | _ | | |
| The Idle Class Charles Chaplin | | | |
| Charles Chaplin The Immigrant Daw. Charles Chaplin The Italian Barber Daw. Griffith The Joneses Have Amateur Theatricals Daw. Griffith The Kid Daw. Griffith | | | |
| The Immigrant Charles Chaplin | | | |
| Charles Chaplin | | | |
| The Italian Barber Griffith | | | |
| Griffith The Joneses Have Amateur Theatricals D.W. Griffith | | | D 14 |
| The Joneses Have Amateur Theatricals | • | ١ | D.W. |
| Griffith The Kid The Kid The Little Darling D.W. Griffith D.W. Griff | | 1 | דעז כז |
| The Kid Charles Chaplin | • | ١ | D.W. |
| Charles Chaplin The Little Darling D.W. Griffith The Masquerader The Masquerader The Matinee Idol Frank Capra The Movies The Movies The New Janitor The New Janitor The New Janitor The Newlyweds D.W. Griffith The Paleface The Parson's Widow Carl The Pawshop Carl The Pawshop The Pawshop The Pacachbasket Hat D.W. Griffith The Pachbasket Hat D.W. Griffith The Pest D.W. Griffith The Politician's Love Story D.W. Griffith The Red Mill The Red Mill The Reformers; or, The Lost Art of Minding One's B D.W. Griffith The Rough House The Rough House The Rough House Roscoe 'Fatty' Arbuckle The Rough | | 1 | |
| The Little Darling Griffith | · | ١ | |
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| The Newlyweds D.W. Griffith | <u>-</u> | | |
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| The Peachbasket Hat | | | |
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| The Pilgrim Charles Chaplin | | | |
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| The Rink | | ' | <i>5</i> |
| Charles Chaplin The Rough House Roscoe 'Fatty' Arbuckle | · | ı | |
| The Rough House Roscoe 'Fatty' Arbuckle | · | 1 | |
| Roscoe 'Fatty' Arbuckle | | | |
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| Charles Chaplin The Scarecrow | 1 | |
|--------------------------------------|---|----------|
| Buster Keaton | 1 | |
| The School Teacher and the Waif | | D.W. |
| Griffith The Strong Man | 1 | Frank |
| Capra | 1 | rrank |
| The Taming of the Shrew | | D.W. |
| Griffith | | |
| The Tramp Charles Chaplin | ı | |
| The Vagabond | ı | |
| Charles Chaplin | ' | |
| The Waiters' Ball | | |
| Roscoe 'Fatty' Arbuckle | | |
| The Wooden Leg | | D.W. |
| Griffith | | |
| They Would Elope | | D.W. |
| Griffith | | D 1:1 |
| Those Awful Hats Griffith | ı | D.W. |
| Those Country Kids | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | |
| Those Love Pangs | ı | |
| Charles Chaplin | | |
| Three's a Crowd | | Harry |
| Langdon | | |
| Tillie Wakes Up | | Harry |
| Davenport | | |
| Triple Trouble | | |
| Charles Chaplin True Heart Susie | | D M |
| Griffith | ı | D.W. |
| Trying to Get Arrested | ı | D.W. |
| Griffith | ' | <i>2</i> |
| Turn to the Right | 1 | Rex |
| Ingram | | |
| Upstream | | John |
| Ford | | |
| Vice Versa | | |
| Maurice Elvey | | |
| What Happened to Rosa | | |
| Victor Schertzinger | 1 | Cecil |
| B. DeMille | ı | CECII |
| When Love Took Wings | ī | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Why Change Your Wife? | | Cecil |
| B. DeMille | | |
| Wild Women | | John |
| Ford | | |
| Wilful Peggy | | D.W. |

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Griffith
   | Wished on Mabel
Roscoe 'Fatty' Arbuckle
                      | Woman in the Moon
                                    | Fritz
Lang
   | Work
Charles Chaplin
  +------
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   203 rows in set (0.04 sec)
   (B) with BTree indexing on titleType
   alter table titlebasics add index index2(titleType);
   Query OK, 0 rows affected (2.30 sec)
   Records: 0 Duplicates: 0 Warnings: 0
   show index from titlebasics;
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   | Table | Non unique | Key name | Seq_in_index |
Column name | Collation | Cardinality | Sub part | Packed | Null
| Index type | Comment | Index comment |
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   3 rows in set (0.00 sec)
   select distinct titlebasics.primaryTitle,
namebasics.primaryName from namebasics join crew on
namebasics.nconst=crew.director join ratings on
crew.tconst=ratings.tconst join titlebasics on
ratings.tconst=titlebasics.tconst where titlebasics.isAdult=0 and
titlebasics.genres='comedy' and ratings.averageRating>3 and
namebasics.primaryName not like 'a%' and namebasics.primaryName
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namebasics.primaryName not like 'o%'and namebasics.primaryName

not like 'e%'and namebasics.primaryName not like 'i%'and

not like 'u%' order by titlebasics.primaryTitle;

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| A Calamitous Elopem | · | | | | D.W. |
| Griffith | enc I | | | - 1 | D.W. |
| A Country Hero | 1 | | | 1 | |
| Roscoe 'Fatty' Arbuckle | | 1 | | ' | |
| A Day's Pleasure | | ' | | 1 | |
| Charles Chaplin | | | | | |
| A Dog's Life | | | | - 1 | |
| Charles Chaplin | | | | | |
| A Gun Fightin' Gent | leman | | | | John |
| Ford | | | | | |
| A Hard Wash | | | | | |
| William K.L. Dickson | | | | | |
| A Jitney Elopement | | | | ı | |
| Charles Chaplin A Night in the Show | | l | | | |
| Charles Chaplin | | 1 | | ı | |
| A Night Out | | 1 | | 1 | |
| Charles Chaplin | | ı | | ' | |
| A Reckless Romeo | | ' | | 1 | |
| Roscoe 'Fatty' Arbuckle | | 1 | | | |
| A Woman | | · | | | |
| Charles Chaplin | | | | | |
| A Woman's Fool | | | | | John |
| Ford | | | | | |
| Alkali Ike's Auto | | | | | |
| Gilbert M. 'Broncho Billy' | | | D = 1 1 = | | |
| An Awful Skate; or, Gilbert M. 'Broncho Billy' | | | ROTTERS | ı | |
| An Incompetent Hero | Anderson | ı | | 1 | |
| Roscoe 'Fatty' Arbuckle | | ı | | ' | |
| Back Stage | | ' | | 1 | |
| Roscoe 'Fatty' Arbuckle | | 1 | | | |
| Balked at the Altar | | | | | D.W. |
| Griffith | | | | | |
| Battling Butler | | | | | |
| Buster Keaton | | | | | |
| Behind the Screen | | | | | |
| Charles Chaplin | | | | | |
| Broadway Scandals | | 1 | | ı | |
| George Archainbaud By the Sea | | ı | | | |
| Charles Chaplin | | 1 | | - 1 | |
| Caught in the Rain | | ı | | 1 | |
| Charles Chaplin | | 1 | | ' | |
| Chimmie Fadden Out | West | | | 1 | Cecil |
| B. DeMille | | | | | |
| | | | | | |

| Choosing a Husband | ı | D.W. |
|--|---|-------|
| Griffith | Ċ | |
| College | | |
| Buster Keaton | | |
| Coney Island | | |
| Roscoe 'Fatty' Arbuckle Cops | 1 | |
| Buster Keaton | ı | |
| Dan the Dandy | ı | D.W. |
| Griffith | | |
| Don't Change Your Husband | | Cecil |
| B. DeMille | | |
| Dough and Dynamite | | |
| Charles Chaplin | | |
| Easy Street | ı | |
| Charles Chaplin Eradicating Aunty | ı | D.W. |
| Griffith | 1 | D.VV. |
| Examination Day at School | ı | D.W. |
| Griffith | | |
| Father Gets in the Game | | D.W. |
| Griffith | | |
| Fatty and Mabel Adrift | | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty and Mabel at the San Diego Exposition | | |
| Roscoe 'Fatty' Arbuckle Fatty and Mabel's Simple Life | 1 | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty and Minnie He-Haw | ı | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Chance Acquaintance | | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Faithful Fido | | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Jonah Day | ١ | |
| Roscoe 'Fatty' Arbuckle Fatty's Magic Pants | 1 | |
| Roscoe 'Fatty' Arbuckle | ' | |
| Fatty's New Role | ı | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Plucky Pup | | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Reckless Fling | | |
| Roscoe 'Fatty' Arbuckle | | |
| Fatty's Tintype Tangle Roscoe 'Fatty' Arbuckle | ١ | |
| Fig Leaves | ı | |
| Howard Hawks | ' | |
| Finances of the Grand Duke | | F.W. |
| Murnau | | |
| Gentlemen of Nerve | | |
| Charles Chaplin | | |
| | | |

| Get Your Man | I |
|-------------------------------|-------|
| Dorothy Arzner | I |
| Getting Acquainted | I |
| Charles Chaplin | ı |
| Getting Even | D.W. |
| Griffith | , 20 |
| Glad Rag Doll | I |
| Michael Curtiz | ı |
| Go West | I |
| Buster Keaton | |
| Good Night, Nurse! | I |
| Roscoe 'Fatty' Arbuckle | |
| Hard Boiled | I |
| Victor Schertzinger | |
| He Did and He Didn't | I |
| Roscoe 'Fatty' Arbuckle | |
| Her First Biscuits | D.W. |
| Griffith | |
| His Musical Career | I |
| Charles Chaplin | |
| His New Job | I |
| Charles Chaplin | |
| His New Profession | 1 |
| Charles Chaplin | |
| His Prehistoric Past | 1 |
| Charles Chaplin | |
| His Trysting Place | |
| Charles Chaplin | |
| His Wedding Night | |
| Roscoe 'Fatty' Arbuckle | |
| His Wife's Mistakes | |
| Roscoe 'Fatty' Arbuckle | |
| In the Park | |
| Charles Chaplin | |
| Jones and the Lady Book Agent | D.W. |
| Griffith | |
| Just Pals | John |
| Ford | |
| Kane | Kenji |
| Mizoguchi | |
| Lady Helen's Escapade | D.W. |
| Griffith | |
| Laughing Gas | |
| Charles Chaplin | |
| Leading Lizzie Astray | |
| Roscoe 'Fatty' Arbuckle | |
| Leap Year | l |
| Roscoe 'Fatty' Arbuckle | |
| Lightnin' | John |
| Ford | |
| Long Pants | Frank |
| Capra | |

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| Love
Roscoe 'Fatty' Arbuckle
    | Love and Bullets
Roscoe 'Fatty' Arbuckle
  | Lover's Luck
Roscoe 'Fatty' Arbuckle
  | Mabel and Fatty's Married Life
Roscoe 'Fatty' Arbuckle |
  | Mabel and Fatty's Wash Day
Roscoe 'Fatty' Arbuckle
    | Mabel's Wilful Way
Roscoe 'Fatty' Arbuckle
   | Mabel, Fatty and the Law
Roscoe 'Fatty' Arbuckle
    | Maid in Morocco
Charles Lamont
     | Miss Fatty's Seaside Lovers
Roscoe 'Fatty' Arbuckle |
     | Monday Morning in a Coney Island Police Court
                                                       | D.W.
Griffith
    | Moonlight Follies
                                                        | King
Baggot
  | Moonshine
Roscoe 'Fatty' Arbuckle
    | Mr. Jones at the Ball
                                                        D.W.
Griffith
     | Mr. Jones Has a Card Party
                                                        I D.W.
Griffith
    | Mrs. Jones Entertains
                                                        D.W.
Griffith
    | Mrs. Jones' Lover; or, 'I Want My Hat'
                                                        D.W.
Griffith
     | Muggsy's First Sweetheart
                                                        I D.W.
Griffith
     | Naughty Boy
Charles Lamont
    | Oh Doctor!
Roscoe 'Fatty' Arbuckle
    | One A.M.
Charles Chaplin
    | Out West
Roscoe 'Fatty' Arbuckle
    | Paid to Love
Howard Hawks
    | Pay Day
Charles Chaplin
    | Police
Charles Chaplin
    | Recreation
Charles Chaplin
     | Remodeling Her Husband
Lillian Gish
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| Riley the Cop | | John |
|--|---|-------|
| Rip Van Winkle | | |
| William K.L. Dickson Roped | | John |
| Ford Sally of the Sawdust | ı | D.W. |
| Griffith | , | |
| Saturday Night B. DeMille | | Cecil |
| Say It with Sables Capra | | Frank |
| Seven Chances | | |
| Buster Keaton Shanghaied | | |
| Charles Chaplin | | |
| Charles Chaplin So This Is Love | i | Frank |
| Capra | | rrank |
| Special Delivery Roscoe 'Fatty' Arbuckle | | |
| Stupid, But Brave Roscoe 'Fatty' Arbuckle | | |
| Sunnyside | | |
| Charles Chaplin Taming a Husband | | D.W. |
| Griffith Thank You | ı | John |
| Ford | ' | |
| That Certain Thing Capra | ı | Frank |
| That Little Band of Gold Roscoe 'Fatty' Arbuckle | | |
| That Royle Girl Griffith | | D.W. |
| The Adventurer | | |
| Charles Chaplin The Affairs of Anatol | | Cecil |
| B. DeMille The Awakening | ı | D.W. |
| Griffith | ' | 2 |
| The Balloonatic Buster Keaton | ı | |
| The Bank Charles Chaplin | | |
| The Battle of the Sexes Griffith | | D.W. |
| The Bell Boy | | |
| Roscoe 'Fatty' Arbuckle The Bond | I | |
| Charles Chaplin | , | |

| The Butcher Boy | 1 |
|--|--------------------|
| Roscoe 'Fatty' Arbuckle The Champion | I |
| Charles Chaplin | ı |
| The Chaser | Harry |
| Langdon | |
| The Christmas Burglars Griffith | D.W. |
| The Circus | 1 |
| Charles Chaplin | ı |
| The Clubman and the Tramp | D.W. |
| Griffith | |
| The Cook | |
| Roscoe 'Fatty' Arbuckle The Count | 1 |
| Charles Chaplin | ı |
| The Cradle Snatchers | |
| Howard Hawks | |
| The Cure | |
| Charles Chaplin The Day After | D.W. |
| Griffith | D.W. |
| The Englishman and the Girl | D.W. |
| Griffith | |
| The Face on the Barroom Floor | |
| Charles Chaplin The Fascinating Mrs. Francis | D.W. |
| Griffith | D.W. |
| The Fighting Dude | |
| Roscoe 'Fatty' Arbuckle | |
| The Fireman | |
| Charles Chaplin | 1 |
| The Floorwalker Charles Chaplin | |
| The French Duel | D.W. |
| Griffith | • |
| 011111011 | |
| The Garage | I |
| The Garage Roscoe 'Fatty' Arbuckle | |
| The Garage Roscoe 'Fatty' Arbuckle The Gibson Goddess | D.W. |
| The Garage Roscoe 'Fatty' Arbuckle | D.W. |
| The Garage Roscoe 'Fatty' Arbuckle The Gibson Goddess Griffith | D.W. |
| The Garage Roscoe 'Fatty' Arbuckle | D.W. |
| The Garage Roscoe 'Fatty' Arbuckle | D.W. |
| The Garage Roscoe 'Fatty' Arbuckle | D.W. |
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| The Garage Roscoe 'Fatty' Arbuckle | |
| The Garage Roscoe 'Fatty' Arbuckle | D.W. |

| The Joneses Have Amateur Theatricals | | D.W. |
|--|---|--------|
| Griffith The Kid | 1 | |
| Charles Chaplin | 1 | |
| The Little Darling | | D.W. |
| Griffith | | |
| The Masquerader | | |
| Charles Chaplin | | T1- |
| The Matinee Idol | ١ | Frank |
| Capra The Movies | ı | |
| Roscoe 'Fatty' Arbuckle | ' | |
| The New Janitor | | |
| Charles Chaplin | | |
| The Newlyweds | | D.W. |
| Griffith | | |
| The Paleface Buster Keaton | ı | |
| The Parson's Widow | ı | Carl |
| Theodor Dreyer | ' | |
| The Pawnshop | | |
| Charles Chaplin | | |
| The Peachbasket Hat | | D.W. |
| Griffith The Pest | | |
| Gilbert M. 'Broncho Billy' Anderson | ı | |
| The Pilgrim | ı | |
| Charles Chaplin | Ċ | |
| The Politician's Love Story | | D.W. |
| Griffith | | |
| The Property Man | | |
| Charles Chaplin The Red Mill | 1 | |
| Roscoe 'Fatty' Arbuckle | 1 | |
| The Reformers; or, The Lost Art of Minding One's B | ı | D.W. |
| Griffith | | |
| The Rink | | |
| Charles Chaplin | | |
| The Rough House | | |
| Roscoe 'Fatty' Arbuckle The Rounders | ı | |
| Charles Chaplin | ' | |
| The Scarecrow | | |
| Buster Keaton | | |
| The School Teacher and the Waif | | D.W. |
| Griffith | | Enonle |
| The Strong Man Capra | ı | Frank |
| The Taming of the Shrew | ı | D.W. |
| Griffith | | |
| The Tramp | | |
| Charles Chaplin | | |

| The Washend | | 1 |
|---------------------------------|------------|---|
| The Vagabond Charles Chaplin | 1 | I |
| The Waiters' Ball | 1 | 1 |
| Roscoe 'Fatty' Arbuckle | | |
| The Wooden Leg | | D.W. |
| Griffith | | |
| They Would Elope | 1 | D.W. |
| Griffith Those Awful Hats | | I D.W. |
| Griffith | 1 | р.W. |
| Those Country Kids | 1 | 1 |
| Roscoe 'Fatty' Arbuckle | | • |
| Those Love Pangs | | |
| Charles Chaplin | | |
| Three's a Crowd | | Harry |
| Langdon | | l IIommi |
| Tillie Wakes Up Davenport | | Harry |
| Triple Trouble | | 1 |
| Charles Chaplin | 1 | ' |
| True Heart Susie | · | D.W. |
| Griffith | | |
| Trying to Get Arrested | | D.W. |
| Griffith | | I D |
| Turn to the Right | I | Rex |
| Ingram Upstream | ı | John |
| Ford | | , |
| Vice Versa | | 1 |
| Maurice Elvey | | |
| What Happened to Rosa | | |
| Victor Schertzinger | | Cecil |
| What's His Name B. DeMille | 1 | l cecii |
| When Love Took Wings | | 1 |
| Roscoe 'Fatty' Arbuckle | | ' |
| Why Change Your Wife? | | Cecil |
| B. DeMille | | |
| Wild Women | | John |
| Ford | | L D 54 |
| Wilful Peggy Griffith | I | D.W. |
| Wished on Mabel | I | 1 |
| Roscoe 'Fatty' Arbuckle | 1 | ' |
| Woman in the Moon | | Fritz |
| Lang | | |
| Work | | |
| Charles Chaplin | | |
| + | | · + |
| 203 rows in set (0.02 se | · | |
| | - <i>r</i> | |

```
stored procedure1:
     delimiter $$
     create procedure printNumMoviesFromGenre(IN gen varchar(50),
OUT NoOfMovies INT) begin select count(titlebasics.tconst) INTO
NoOfMovies from titlebasics where titlebasics.genres=gen; end$$
     delimiter ;
call procedure1 (a):
     call printNumMoviesFromGenre('romance',@opvar);
     Query OK, 1 row affected (0.02 sec)
     select @opvar as output;
     +----+
     | output |
     +----+
        221 |
     +----+
     1 row in set (0.00 sec)
call procedure1 (b):
     call printNumMoviesFromGenre('comedy',@opvar);
     Query OK, 1 row affected (0.01 sec)
     select @opvar as output;
     +----+
     | output |
     +----+
     4677
     +----+
     1 row in set (0.00 sec)
stored procedure2:
     delimiter $$
     create procedure incrementVariable(inout a int, in
incrementBy int) begin set a = a + incrementBy; end$$ Query OK, 0
rows affected (0.00 sec)
     delimiter;
call procedure2 (a):
     select @opvar;
     +----+
```

```
| @opvar |
     +----+
    | 221 |
    +----+
     1 row in set (0.00 sec)
    call incrementVariable(@opvar,100);
    Query OK, 0 rows affected (0.00 sec)
    select @opvar;
    +----+
     | @opvar |
     +----+
    321 |
    +----+
    1 row in set (0.00 sec)
call procedure2 (b):
    select @opvar;
     +----+
     | @opvar |
     +----+
    | 221 |
    +----+
     1 row in set (0.00 sec)
    call incrementVariable(@opvar, -100);
    Query OK, 0 rows affected (0.00 sec)
    select @opvar;
     +----+
     | @opvar |
     +----+
     | 221 |
    +----+
     1 row in set (0.00 sec)
```