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PySpark Lab 4 - Movies 8A BSCS MMD

22nd February 2024

Question 1 (35 marks) You are provided with the dataset “Movies.csv” that contains information about 1600 movies with properties such as year, length, main actor and actress, director and popularity. Your task is to read the file in SPARK RDD and efficiently perform the following queries on the dataset using Spark (Scala). You must use the spark functionality of persisting data in memory and partitioning. Try to write an efficient query.

```
In [1]: # #Running on Colab
!pip install pyspark
!pip install -U -q PyDrive
!apt install openjdk-8-jdk-headless -qq
import os
os.environ['JAVA_HOME'] = '/usr/lib/jvm/java-8-openjdk-amd64'
```

Collecting pyspark

Downloading pyspark-3.5.0.tar.gz (316.9 MB)

316.9/316.9 MB 2.2 MB/s eta 0:00:00

Preparing metadata (setup.py) ... done

Requirement already satisfied: py4j==0.10.9.7 in /usr/local/lib/python3.10/dist-packages (from pyspark) (0.10.9.7)

Building wheels for collected packages: pyspark

Building wheel for pyspark (setup.py) ... done

Created wheel for pyspark: filename=pyspark-3.5.0-py2.py3-none-any.whl size=317425345 sha256=6226f6044feeafa78f64b28149c06c23fac95dd89770be162cb1fd57cfb03665

Stored in directory: /root/.cache/pip/wheels/41/4e/10/c2cf2467f71c678cfc8a6b9ac9241e5e44a01940da8fbb17fc

Successfully built pyspark

Installing collected packages: pyspark

Successfully installed pyspark-3.5.0

The following additional packages will be installed:

libxtst6 openjdk-8-jre-headless

Suggested packages:

openjdk-8-demo openjdk-8-source libnss-mdns fonts-dejavu-extra fonts-nanum fonts-ipafont-gothic  
fonts-ipafont-mincho fonts-wqy-microhei fonts-wqy-zenhei fonts-indic

The following NEW packages will be installed:

libxtst6 openjdk-8-jdk-headless openjdk-8-jre-headless

0 upgraded, 3 newly installed, 0 to remove and 35 not upgraded.

Need to get 39.7 MB of archives.

After this operation, 144 MB of additional disk space will be used.

Selecting previously unselected package libxtst6:amd64.

(Reading database ... 121749 files and directories currently installed.)

Preparing to unpack .../libxtst6\_2%3a1.2.3-1build4\_amd64.deb ...

Unpacking libxtst6:amd64 (2:1.2.3-1build4) ...

Selecting previously unselected package openjdk-8-jre-headless:amd64.

Preparing to unpack .../openjdk-8-jre-headless\_8u392-ga-1~22.04\_amd64.deb ...

Unpacking openjdk-8-jre-headless:amd64 (8u392-ga-1~22.04) ...

Selecting previously unselected package openjdk-8-jdk-headless:amd64.

Preparing to unpack .../openjdk-8-jdk-headless\_8u392-ga-1~22.04\_amd64.deb ...

Unpacking openjdk-8-jdk-headless:amd64 (8u392-ga-1~22.04) ...

Setting up libxtst6:amd64 (2:1.2.3-1build4) ...

Setting up openjdk-8-jre-headless:amd64 (8u392-ga-1~22.04) ...

update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/orbd to provide /usr/bin/orbd (orbd) in auto mode

update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/servertool to provide /usr/bin/servertool (servertool) in auto mode

update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/tnameserv to provide /usr/bin/tnameserv (tnameserv) in auto mode

Setting up openjdk-8-jdk-headless:amd64 (8u392-ga-1~22.04) ...

```
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/clhsdb to provide /usr/bin/clhsdb (clhsdb) i
n auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/extcheck to provide /usr/bin/extcheck (extch
eck) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/hsdb to provide /usr/bin/hsdb (hsdb) in auto
mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/idlj to provide /usr/bin/idlj (idlj) in auto
mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/javah to provide /usr/bin/javah (javah) in a
uto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/jhat to provide /usr/bin/jhat (jhat) in auto
mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/jsadebugd to provide /usr/bin/jsadebugd (jsa
debugd) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/native2ascii to provide /usr/bin/native2asci
i (native2ascii) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/schemagen to provide /usr/bin/schemagen (sch
emagen) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/wsgen to provide /usr/bin/wsgen (wsgen) in a
uto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/wsimport to provide /usr/bin/wsimport (wsimp
ort) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-openjdk-amd64/bin/xjc to provide /usr/bin/xjc (xjc) in auto mo
de
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic link
```

```
In [2]: # Import the libraries we will need
import pyspark
from pyspark.sql import *
from pyspark.sql.functions import *
from pyspark import SparkContext, SparkConf

# Create Spark session and ContextRun PySpark.
# create the session
conf = SparkConf().set("spark.ui.port", "4050")
# create the context
sc = pyspark.SparkContext(conf=conf)
spark = SparkSession.builder.appName("DataFrame").config('spark.ui.port', '4050').getOrCreate()
spark
```

Out[2]: **SparkSession - in-memory**  
**SparkContext**

[Spark UI \(http://48a84fa7381e:4050\)](http://48a84fa7381e:4050)

**Version**

v3.5.0

**Master**

local[\*]

**AppName**

pyspark-shell

```
In [4]: df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
s.csv')
# Show the DataFrame
df.show(truncate=False)
```

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```

cock, Alfred      |2      |No      |alfredHitchcock.png,,|
|1963|109      |Donovan's Reef      |Comedy |Wayne, John      |Allen, Elizabeth      |Ford,
John      |62      |No      |johnWayne.png,,      |
+---+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+
only showing top 20 rows

```

```

In [ ]: # 1. Find the total number of movies of each genre. Consider only the movies released after 1960 and have a l
length greater than 90 minutes.
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
S.csv')
df.rdd.filter(lambda x:((int(x[0]) if x[0] and x[0].isdigit() else 0 )>1960) and ((int(x[1]) if x[1] and x
[1].isdigit() else 0 )>90)).map(lambda x:(x[3],1)).reduceByKey(lambda x,y:x+y).collect()

```

```

Out[ ]: [('Comedy', 242),
('Horror', 26),
('Action', 124),
('Drama', 434),
('Science Fiction', 26),
('Mystery', 63),
('Music', 21),
('War', 15),
('Westerns', 5),
('Western', 37),
('Adventure', 4),
('Romance', 1),
('Fantasy', 1),
(None, 1)]

```



```
In [ ]: # 2. For each actress, find the movie in which she acted. You must print the names of the movies and the year of the movie.  
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie  
S.csv')  
df.rdd.map(lambda x: (x[5],(x[0],x[2]))).groupByKey().map(lambda x: (x[0],list(x[1]))).collect()
```

```

Out[ ]: [('CAT', [(('INT', 'STRING'))],
  ('Abril, Victoria',
    [('1990', 'Tie Me Up! Tie Me Down!'), ('1991', 'High Heels')]),
  ('Adams, Brooke',
    [('1983', 'Dead Zone, The'), ('1979', 'Cuba'), ('1978', 'Days of Heaven')]),
  ('Adams, Maud', [(('1983', 'Octopussy'), ('1984', 'Target Eagle'))]),
  ('Adams, Trudy', [(('1989', 'American Angels: Baptism of Blood, The'))]),
  ('Adjani, Isabelle', [(('1985', 'Subway'), ('1990', 'Camille Claudel'))]),
  ('Adolphson, Kristina', [(('1982', 'Fanny and Alexander'))]),
  ('Aimee, Anouk',
    [('1982', 'Tragedy of a Ridiculous Man'),
     ('1966', 'A Man & a Woman'),
     ('1986', 'A Man & a Woman: Twenty Years Later'),
     ('1966', 'Un Hombre y una Mujer')]),
  ('Aleandro, Norma', [(('1985', 'Official Story, The'))]),
  ('Alexander, Denise', [(('1976', 'Lindbergh Kidnapping Case, The'))]),
  ('Algood, Sara', [(('1929', 'Blackmail'))]),
  ('Allen, Elizabeth', [(('1963', "Donovan's Reef"))]),
  ('Allen, Joan', [(('1988', 'Tucker: The Man & His Dream'))]),
  ('Allen, Karen', [(('1988', 'Scrooged'), ('1981', 'Raiders of the Lost Ark'))]),
  ('Alonso, Maria Conchita',
    [('1987', 'Running Man, The'), ('1991', 'Predator 2'), ('1988', 'Colors')]),
  ('Anderson, Erika', [(('1990', 'Zandalee'))]),
  ('Anderson, Jo', [(('1988', 'Miles from Home'))]),
  ('Anderson, Melissa Sue', [(('1980', 'Happy Birthday to Me'))]),
  ('Anderson, Melody', [(('1989', 'Final Notice'))]),
  ('Andersson, Bibi',
    [('1979', 'Quintet'),
     ('1960', "Devil's Eye, The"),
     ('1957', 'Wild Strawberries'),
     ('1956', 'Seventh Seal, The'),
     ('1992', 'Germicide')]),
  ('Andersson, Harriet',
    [('1955', 'Dreams'),
     ('1955', 'Naked Night, The'),
     ('1962', 'Through a Glass Darkly'),
     ('1972', 'Cries & Whispers')]),
  ('Ando, Eiko', [(('1958', 'Barbarian & the Geisha, The'))]),
  ('Andress, Ursula', [(('1967', 'Casino Royale'), ('1962', 'Dr. No'))]),
  ('Andrews, Dana', [(('1954', 'Elephant Walk'))]),
  ('Andrews, Julie',
    [('1979', 'Ten'),
     ('1983', 'Man Who Loved Women, The')]),

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('1966', 'Hawaii'),
('1966', 'Torn Curtain'),
('1986', 'Duet for One'),
('1965', 'Sound of Music, The'),
('1985', 'Gonzo Presents Muppet Weird Stuff'))],
('Annen, Paule', [('1984', 'Tartuffe'))],
('Ann-Margret',
 [('1988', 'A New Life'), ('1978', 'Magic'), ('1992', 'Tommy')]),
('Anspach, Susan', [('1978', 'Big Fix, The')]),
('Aquino, Vanessa', [('1992', 'Alan & Naomi')]),
('Archer, Anne', [('1987', 'Fatal Attraction'), ('1992', 'Patriot Games')]),
('Ardant, Fanny', [('1981', 'Woman Next Door, The')]),
('Armstrong, Kerry', [('1992', 'Hunting')]),
('Arnaz, Desi', [('1991', 'Bataan')]),
('Arnold, Gertrud', [('1924', 'Siegfried, The Nibelungenlied')]),
('Arnold, Tracy', [('1991', 'Henry, Portrait of a Serial Killer')]),
('Arquette, Rosanna',
 [('1988', 'Big Blue, The'),
 ('1991', 'Flight of the Intruder'),
 ('1986', 'Nobody's Fool'),
 ('1985', 'After Hours'),
 ('1985', 'Desperately Seeking Susan')]),
('Arrick, Rose', [('1971', 'A New Leaf')]),
('Aslan, Gregoire', [('1959', 'Killers of Kilimanjaro')]),
('Astor, Mary', [('1926', 'Don Juan')]),
('Audran, Stéphane',
 [('1987', 'Babette's Feast'),
 ('1989', 'Vincent, Francois, Paul & the Others')]),
('Auger, Claudine', [('1988', 'Thunderball')]),
('Ault, Marie', [('1926', 'Lodger (Story of the London Fog)')]),
('Bacall, Lauren',
 [('1988', 'Appointment with Death'),
 ('1974', 'Murder on the Orient Express'),
 ('1955', 'Blood Alley')]),
('Bach, Barbara', [('1977', 'Spy Who Loved Me, The')]),
('Bahtia, Stacy Christensen', [('1988', 'Storm')]),
('Baker, Carroll', [('1991', 'Bloodbath')]),
('Baker, Dawn', [('1989', 'Miami Cops')]),
('Balk, Fairuza', [('1996', 'Island of Dr. Moreau, The')]),
('Bancroft, Anne',
 [('1992', 'Eighty-Four Charing Cross Road'), ('1980', 'Elephant Man, The')]),
('Barash, Olivia', [('1988', 'Dr Alien')]),
('Barbeau, Adrienne', [('1982', 'Creepshow')]),

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('Barber, Frances', [('1987', 'Sammy & Rosie Get Laid')]),
('Bardischewski, Maria',
 [('1971', "Goalie's Anxiety at the Penalty Kick, The")]),
('Bardot, Brigitte',
 [('1957', 'Mademoiselle Striptease'),
 ('1969', 'Women, The'),
 ('1958', 'That Naughty Girl'),
 ('1959', 'Voulez-Vous Danser Avec Moi?'),
 ('1967', 'A Coeur Joie, (Head Over Heels)'),
 ('1968', 'Shalako'),
 ('1964', 'Contempt'),
 ('1965', 'Dear Brigitte'),
 ('1962', 'A Very Private Affair'),
 ('1964', 'Ravishing Idiot, The'),
 ('1958', 'Bride Is Much Too Beautiful, The'),
 ('1955', 'Doctor at Sea'),
 ('1962', "Le Repos Du Guerrier, (Warrior's Rest)"),
 ('1957', 'And God Created Woman'),
 ('1973', 'Ms. Don Juan')]),
('Barkin, Ellen', [('1987', 'Siesta')]),
('Barry, Joan', [('1932', 'Rich & Strange')]),
('Barrymore, Deborah', [('1987', 'Lionheart')]),
('Barrymore, Drew', [('1982', 'E. T. The Extra-Terrestrial')]),
('Basinger, Kim',
 [('1992', 'Cool World'),
 ('1988', 'Nadine'),
 ('1989', 'Batman'),
 ('1987', 'Blind Date'),
 ('1982', 'Mother Lode'),
 ('1992', 'Final Analysis'),
 ('1983', 'Never Say Never Again'),
 ('1986', 'Nine & a Half Weeks'),
 ('1989', 'Killjoy'),
 ('1986', 'No Mercy'),
 ('1991', 'Marrying Man, The')]),
('Bates, Kathy', [('1990', 'Misery')]),
('Baude, Anna-Lisa', [('1946', 'Crisis')]),
('Bauer, Belinda', [('1984', 'Samson & Delilah'), ('1990', 'Act of Piracy')]),
('Beals, Jennifer',
 [('1988', 'Split Decisions'), ('1989', "Vampire's Kiss")]),
('Beck, Kimberly', [('1988', 'Nightmare at Noon')]),
('Bedelia, Bonnie', [('1990', 'Presumed Innocent')]),
('Beecher, Janet', [('1942', 'Reap the Wild Wind')]),

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('Belford, Christine', [('1972', 'Pocket Money'))],
('Beller, Kathleen', [('1977', 'Mary White'))],
('Benatar, Pat', [('1982', 'Catch a Rising Star, Tenth Anniversary'))],
('Bening, Annette', [('1990', 'Guilty by Suspicion'))],
('Bennett, Joan',
 [('1948', 'Secret Beyond the Door'), ('1945', 'Scarlet Street'))],
('Bennett, Julie', [('1988', "Daffy Duck's Quackbusters"))],
('Berenson, Marisa', [('1985', "Rowlf's Rhapsodies with the Muppets"))],
('Bergen, Candice',
 [('1982', 'Gandhi'),
 ('1975', 'Wind & the Lion, The'),
 ('1971', 'Carnal Knowledge'),
 ('1970', 'Getting Straight'))],
('Berger, Senta', [('1972', 'Scarlet Letter, The'))],
('Bergman, Ingrid',
 [('1935', 'Count of Old Town, The'),
 ('1978', 'Autumn Sonata'),
 ('1944', 'Gaslight'),
 ('1958', 'Indiscreet'),
 ('1941', 'Walpurgis Night'),
 ('1948', 'Joan of Arc'),
 ('1982', 'A Woman Called Golda'),
 ('1969', 'A Walk in the Spring Rain'),
 ('1949', 'Under Capricorn'),
 ('1946', 'Notorious'),
 ('1940', 'June Night'),
 ('1961', 'Goodbye Again'),
 ('1956', 'Anastasia'),
 ('1945', "Bells of St. Mary's, The"),
 ('1937', 'Intermezzo'),
 ('1938', "A Woman's Face"),
 ('1935', 'Swedenhielms'),
 ('1939', 'Only One Night'),
 ('1938', 'Dollar'),
 ('1956', 'Elena & Her Men'),
 ('1952', 'Europa Fifty-One'),
 ('1953', 'Voyage in Italy'),
 ('1954', 'Fear'),
 ('1950', 'Stromboli'),
 ('1969', 'Cactus Flower'),
 ('1989', 'Hideaways'),
 ('1990', "Twenty Four Hours in a Woman's Life"))],
('Bergman, Sandahl',

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(['1987', 'Programmed to Kill'),
 ('1982', 'Conan the Barbarian'),
 ('1991', 'Raw Nerve'))],
('Berman, Shelley', [('1970', 'Think Dirty'))],
('Bernhard, Sandra',
 [('1982', 'King of Comedy'), ('1983', 'Best of the Big Laff Off, The')]),
('Berridge, Elizabeth', [('1984', 'Amadeus')]),
('Billingsley, Jennifer', [('1973', 'White Lightning')]),
('Binoche, Juliette', [('1988', 'Unbearable Lightness of Being, The')]),
('Bisset, Jacqueline',
 [('1972', 'Life & Times of Judge Roy Bean, The'),
 ('1970', 'Airport'),
 ('1973', 'Day for Night')]),
('Björk, Anita', [('1952', 'Secrets of Women')]),
('Black, Karen',
 [('1976', 'Burnt Offerings'),
 ('1969', 'Easy Rider'),
 ('1991', 'Five Easy Pieces'),
 ('1974', 'Day of the Locust, The')]),
('Blackman, Honor', [('1964', 'Goldfinger')]),
('Blair, Linda', [('1977', 'Exorcist II, The Heretic')]),
('Blondell, Gloria', [('1953', 'White Lightning')]),
('Blondell, Joan', [('1942', 'Lady for a Night')]),
('Bloom, Claire', [('1968', 'Charly')]),
('Bloom, Verna',
 [('1973', 'High Plains Drifter'), ('1982', 'Honkytonk Man')]),
('Bobby, Anne', [('1990', 'Nightbreed')]),
('Bonnaire, Sandrine',
 [('1987', 'Under the Sun of Satan'), ('1985', 'Vagabond')]),
('Boosler, Elayne', [('1993', "Bill Cosby, Live at Harrah's")]),
('Booth, Connie',
 [('1974', 'Monty Python & the Holy Grail'),
 ('1993', 'John Cleese on How to Irritate People')]),
('Booth, Shirley', [('1958', 'Matchmaker, The')]),
('Bouquet, Carole', [('1981', 'For Your Eyes Only')]),
('Bow, Clara', [('1928', 'Wings')]),
('Bracco, Lorraine', [('1992', 'Medicine Man'), ('1989', 'Good Fellas')]),
('Braga, Sonia',
 [('1985', 'Kiss of the Spider Woman'), ('1990', 'Rookie, The')]),
('Brennan, Eileen', [('1973', 'Sting, The')]),
('Brewster, Diane', [('1958', 'Torpedo Run')]),
('Bridges, Lynda', [('1986', 'Instant Justice')]),
('Brochet, Anne', [('1990', 'Cyrano de Bergerac')]),

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('Broniewska, Maria', [('1948', 'Border Street'))],
('Brown, Violet', [('1987', 'Firehouse'))],
('Brynnner, Yul', [('1965', 'Morituri'))],
('Buegger, Christine', [('1980', 'From the Life of the Marionettes'))],
('Buckley, Betty', [('1988', 'Frantic'))],
('Bujold, Geneviève', [('1978', 'Coma'), ('1988', 'Dead Ringers'))],
('Burd, Stephanie', [('1988', 'Golden Ninja Invasion'))],
('Burstyn, Ellen',
  [('1973', 'Exorcist, The'), ('1975', "Alice Doesn't Live Here Anymore")]),
('Byrne, Martha', [('1982', 'Eyes of the Amaryllis, The'))],
('Calvet, Corinne', [('1952', 'What Price Glory?')]),
('Cameron, Marjorie', [('1954', 'Inauguration of the Pleasure Dome'))],
('Campbell, Tisha', [('1989', 'School Daze'))],
('Cannon, Dyan',
  [('1990', 'End of Innocence, The'), ('1971', 'Anderson Tapes, The')]),
('Cannon, Katharine', [('1983', 'Father Murphy, A Horse from Heaven'))],
('Capone, Nadia', [('1989', 'Skull')]),
('Capshaw, Kate',
  [('1987', 'Quick & The Dead, The'),
   ('1984', 'Best Defense'),
   ('1984', 'Dreamscape'),
   ('1989', 'Black Rain')]),
('Cardinale, Claudia', [('1963', '8 1/2')]),
('Carlisle, Mary', [('1935', 'One Frightened Night')]),
('Carmen, Loene', [('1988', 'Year My Voice Broke, The')]),
('Caron, Leslie', [('1966', 'Is Paris Burning?'), ('1974', 'QB VII')]),
('Carrera, Barbara', [('1977', 'Island of Dr. Moreau, The')]),
('Carrillo, Elpidia', [('1983', 'Beyond the Limit')]),
('Carroll, Madeleine', [('1936', 'Secret Agent')]),
('Carter, Judy', [('1986', 'Paramount Comedy Theater: Well-Developed')]),
('Carter, Karen', [('1972', 'Big Bust Out, The')]),
('Cassidy, Joanna', [('1987', 'Fourth Protocol, The')]),
('Cates, Phoebe',
  [('1990', 'Gremlins 2: The New Batch'),
   ('1982', 'Fast Times at Ridgemont High')]),
('Catrall, Kim', [('1987', 'Mannequin')]),
('Chambers, Marilyn', [('1977', 'Rabid')]),
('Champion, Marge', [('1990', 'Party, The')]),
('Chan, Agnes', [('1989', 'Vampire Raiders, Ninja Queen')]),
('Channing, Carol', [('1970', 'Bloopers from Star Trek')]),
('Chapman, Marguerite', [('1943', 'Destroyer')]),
('Charisse, Cyd', [('1992', 'Party Girl')]),
('Chen, Joan', [('1989', 'Twin Peaks')]),

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(('Cher', [ ('1987', 'Moonstruck'), ('1987', 'Witches of Eastwick, The') ]]),
('Chiles, Lois', [ ('1979', 'Moonraker') ]]),
('Chong, Rae Dawn',
 [ ('1984', 'Beat Street'), ('1986', 'Running Out of Luck') ]]),
('Christian, Claudia', [ ('1989', 'Never on Tuesday') ]]),
('Christie, Julie',
 [ ('1975', 'Shampoo'), ('1985', 'Power'), ('1965', 'Darling') ]]),
('Church, Sandra', [ ('1963', 'Ugly American, The') ]]),
('Churchill, Marguerite',
 [ ('1931', 'Ambassador Bill'), ('1931', 'Big Trail, The') ]]),
('Cilento, Diane', [ ('1967', 'Hombre') ]]),
('Clark, Susan', [ ('1968', 'Coogan's Bluff') ]]),
('Clarke, Caitlin', [ ('1989', 'Penn & Teller Get Killed') ]]),
('Clayburgh, Jill', [ ('1987', 'Shy People'), ('1980', 'It's My Turn') ]]),
('Close, Glenn',
 [ ('1988', 'Dangerous Liaisons'),
   ('1990', 'Reversal of Fortune'),
   ('1991', 'Meeting Venus') ]]),
('Colbert, Claudette', [ ('1946', 'Tomorrow Is Forever') ]]),
('Colin, Margaret', [ ('1987', 'Like Father Like Son') ]]),
('Collier, Constance', [ ('1948', 'Rope') ]]),
('Collins, Joan', [ ('1962', 'Road to Hong Kong') ]]),
('Collins, Pauline',
 [ ('1989', 'Shirley Valentine'), ('1992', 'City of Joy') ]]),
('Comer, Anjanette', [ ('1966', 'Appaloosa, The') ]]),
('Connelly, Jennifer', [ ('1986', 'Seven Minutes in Heaven') ]]),
('Coppola, Eleanor',
 [ ('1991', 'Hearts of Darkness, A Filmmaker's Apocalypse') ]]),
('Cornell, Laura', [ ('1961', 'Tonight for Sure') ]]),
('Cornwell, Charlotte', [ ('1990', 'White Hunter, Black Heart') ]]),
('Courcel, Nicole', [ ('1962', 'Sundays & Cybele') ]]),
('Crampton, Barbara', [ ('1989', 'Puppet Master') ]]),
('Crawford, Joan', [ ('1991', 'Night Gallery') ]]),
('Crosby, Denise', [ ('1989', 'Pet Sematary') ]]),
('Crouch, Sandra', [ ('1992', 'America's Music, Gospel') ]]),
('Crouse, Lindsay', [ ('1977', 'Slap Shot') ]]),
('Curtin, Jane', [ ('1987', 'O. C. & Stiggs') ]]),
('Curtis, Jamie Lee', [ ('1988', 'A Fish Called Wanda') ]]),
('Dahlbeck, Eva', [ ('1954', 'A Lesson in Love'), ('1957', 'Brink of Life') ]]),
('Dalle, Béatrice', [ ('1986', 'Betty Blue') ]]),
('D'Angelo, Beverly',
 [ ('1979', 'Hair'), ('1989', 'National Lampoon's Christmas Vacation') ]]),
('Danilchenko, Svetlana', [ ('1974', 'Dersu Uzala, (The Hunter)') ]]),
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('Danner, Blythe', [('1990', 'Alice'))],
('D'Arbanville, Patti",
  [('1980', 'Fifth Floor, The'), ('1990', 'Snow Kill')]),
('Darby, Kim', [('1971', 'People, The'), ('1969', 'True Grit')]),
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('1993', 'Mr. & Mrs. Bridge'))],
('Wright, Robin', [(('1991', 'State of Grace'))],
('Wright, Teresa', [(('1943', 'Shadow of a Doubt'), ('1950', 'Men, The'))],
('Wyman, Jane', [(('1950', 'Stage Fright'), ('1947', 'Magic Town'))],
('York, Susannah', [(('1975', 'That Lucky Touch'))],
('Young, Gig', [(('1949', 'Lust for Gold'))],
('Young, Karen', [(('1987', 'Heat'))],
('Young, Loretta', [(('1993', "Employee's Entrance"))],
('Zetterling, Mai',
[(('1947', 'Night Is My Future'), ('1990', 'Witches, The'))],
(None,
[(('1953', 'Vera Cruz'),
('1954', 'Apache'),
('1977', "Twilight's Last Gleaming"),
('1979', 'Frisco Kid, The'),
('1954', 'Bank on the Stars'),
('1987', 'Law of Desire'),
('1966', 'Quiller Memorandum, The'),
('1962', 'Longest Day, The'),
('1986', 'Name of the Rose, The'),
('1988', 'Bloodsport'),
('1986', 'Torment'),
('1988', 'Pelle the Conqueror'),
('1981', 'Taps'),
('1991', 'Freshman, The'),

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('1987', 'Last Emperor, The'),
('1962', 'Grim Reaper, The'),
('1983', 'Le Dernier Combat'),
('1989', 'Too Beautiful for You'),
('1991', 'Fire, Ice & Dynamite'),
('1963', 'Heavens Above'),
('1961', 'One Eyed Jacks'),
('1937', 'Swing It, Sailor!'),
('1987', 'Wolf at the Door, The'),
('1936', 'Modern Times'),
('1991', 'Thunderbolt & Lightfoot'),
('1931', 'A Nous la Liberte'),
('1979', 'Scum'),
('1984', 'Inside Man, The'),
('1979', 'Apocalypse Now'),
('1990', 'Bellboy & the Playgirls, The'),
('1963', 'Terror, The'),
('1963', 'Raven, The'),
('1975', 'They Came from Within'),
('1986', 'Boy in Blue, The'),
('1991', 'Killer Tomatoes Strike Back'),
('1979', 'Attack of the Killer Tomatoes'),
('1987', 'Untouchables, The'),
('1986', 'Wise Guys'),
('1989', 'American Autobahn'),
('1990', 'Final Alliance, The'),
('1984', 'Bounty, The'),
('1974', 'Little Prince, The'),
('1975', 'Posse'),
('1982', 'Firefox'),
('1987', 'Penitentiary III'),
('1993', 'Ginger & Fred'),
('1966', 'Wrong Box, The'),
('1990', 'Wagonmaster'),
('1945', 'They Were Expendable'),
('1991', 'Last Hurrah, The'),
('1949', 'Law of the Golden West'),
('1949', 'Pioneer Marshal'),
('1949', 'Ranger of the Cherokee Strip'),
('1950', 'Vanishing Westerner'),
('1948', 'Bandits of Dark Canyon'),
('1948', 'Bold Frontiersman, The'),
('1948', 'Wild Frontier, The'),
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('1968', 'Firemen's Ball, The'),
('1983', 'Local Hero'),
('1971', 'French Connection, The'),
('1985', 'To Live & Die in L. A.'),
('1961', 'Ferry to Hong Kong'),
('1983', 'Eddie Murphy, Delirious'),
('1984', 'Secret Policeman's Private Parts, The'),
('1958', 'Up the Creek'),
('1982', 'Yo1'),
('1989', 'Sara Dane'),
('1988', 'Night Tide'),
('1953', 'His Majesty O'Keefe'),
('1960', 'North to Alaska'),
('1966', 'Flight to Fury'),
('1966', 'Ride in the Whirlwind'),
('1970', 'Powderkeg'),
('1953', 'I Confess'),
('1935', 'Thirty-Nine Steps, The'),
('1969', 'Topaz'),
('1930', 'Murder'),
('1954', 'Dial M for Murder'),
('1937', 'Young & Innocent'),
('1976', 'Creature from Black Lake'),
('1981', 'Chariots of Fire'),
('1982', 'Monty Python Live at the Hollywood Bowl'),
('1975', 'Man Who Would Be King, The'),
('1981', 'Victory'),
('1970', 'Kelly's Heroes'),
('1989', 'Next of Kin'),
('1990', 'Chattahoochee'),
('1985', 'Angelic Conversation, The'),
('1986', 'Down by Law'),
('1984', 'Killing Fields, The'),
('1992', 'Survival Zone'),
('1979', 'Monty Python's Life of Brian'),
('1983', 'Monty Python's the Meaning of Life'),
('1971', 'Red Tent, The'),
('1945', 'Dakota'),
('1952', 'Viva Zapata!'),
('1968', 'Green Berets, The'),
('1990', 'Big Bad John'),
('1937', 'Ticket of Leave Man, The'),
('1956', 'D-Day, The Sixth of June'),
```

('1974', 'Apprenticeship of Duddy Kravitz, The'),  
('1971', 'A Clockwork Orange'),  
('1991', 'Full Metal Jacket'),  
('1943', 'Sanshiro Sugata'),  
('1991', 'Rhapsody in August'),  
('1946', 'No Regrets for Our Youth'),  
('1960', 'Bad Sleep Well, The'),  
('1951', 'Idiot, The'),  
('1951', 'Rashomon'),  
('1962', 'Sanjuro'),  
('1955', 'Seven Samurai'),  
('1957', 'Throne of Blood'),  
('1961', 'Yojimbo'),  
('1980', 'Kagemusha'),  
('1952', 'Ikiru'),  
('1987', 'Empire of Spiritual Ninja'),  
('1986', 'Ninja, the Violent Sorcerer'),  
('1926', 'Metropolis'),  
('1946', 'Cloak & Dagger'),  
('1920', 'Spiders'),  
('1954', 'Human Desire'),  
('1928', 'Spies'),  
('1933', 'Testament of Dr. Mabuse, The'),  
('1991', 'Fury'),  
('1990', 'Mo' Better Blues"),  
('1989', 'Matt Talbot'),  
('1989', 'Will Rogers, Look Back in Laughter'),  
('1991', 'For a Few Dollars More'),  
('1944', 'Thirty Seconds over Tokyo'),  
('1982', 'Class of 1984'),  
('1974', 'Juggernaut'),  
('1987', 'Good Morning, Vietnam'),  
('1945', 'Blood on the Sun'),  
('1969', 'Paint Your Wagon'),  
('1964', 'Ensign Pulver'),  
('1976', 'Street People'),  
('1984', 'Manhunt, The'),  
('1987', 'Operation Nam'),  
('1944', 'Fighting Seabees, The'),  
('1988', 'Let It Rock'),  
('1978', 'Eraserhead'),  
('1955', 'Ladykillers, The'),  
('1957', 'Sweet Smell of Success'),

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('1971', 'And Now for Something Completely Different'),  
( '1984', 'Crackers'),  
( '1991', 'Green Glove'),  
( '1970', 'Menace on the Mountain'),  
( '1940', 'In Old California'),  
( '1967', 'Thirty Is a Dangerous Age, Cynthia'),  
( '1980', 'Ffolkes'),  
( '1970', 'Chisum'),  
( '1990', 'Hunt for Red October, The'),  
( '1966', 'Closely Watched Trains'),  
( '1973', 'Executive Action'),  
( '1942', 'Flying Tigers'),  
( '1991', "Father's Little Dividend"),  
( '1982', 'An Evening with Robin Williams'),  
( '1987', 'Eddie Murphy Raw'),  
( '1989', 'Harlem Nights'),  
( '1973', 'Santee'),  
( '1987', 'Good Father, The'),  
( '1971', 'Sometimes a Great Notion'),  
( '1970', 'Catch Twenty-Two'),  
( '1988', 'Dark Age'),  
( '1981', 'Deadline'),  
( '1935', 'Mysterious Mr. Wong'),  
( '1988', 'A Month in the Country'),  
( '1990', 'Prom Night III, The Last Kiss'),  
( '1990', 'Blood in, Blood Out'),  
( '1989', 'Wrong Arm of the Law, The'),  
( '1987', 'Orphans'),  
( '1976', "All the President's Men"),  
( '1987', 'J-Men Forever'),  
( '1969', 'Wild Bunch, The'),  
( '1988', 'Judgement in Berlin'),  
( '1993', 'Hot Line, The'),  
( '1988', 'Rocket Gibraltar'),  
( '1975', 'Yakuza, The'),  
( '1972', 'Jeremiah Johnson'),  
( '1970', 'Burn!'),  
( '1973', 'Magnum Force'),  
( '1989', 'Cyborg'),  
( '1979', 'Prisoner of Zenda, The'),  
( '1983', 'Scream'),  
( '1986', 'Assault, The'),  
( '1951', 'Flying Leathernecks'),
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('1985', 'What Comes Around'),
('1980', 'Mon Oncle D'Amerique'),
('1972', 'Culpepper Cattle Company, The'),
('1983', 'Survivors, The'),
('1984', 'Roadhouse Sixty-Six'),
('1991', 'Burning Poles, Cecil Taylor in Performance'),
('1987', 'Russkies'),
('1990', 'My Blue Heaven'),
('1990', 'Altered States'),
('1972', 'Cowboys, The'),
('1985', 'Code Name, Emerald'),
('1970', 'Patton'),
('1969', 'Midnight Cowboy'),
('1985', 'Falcon & the Snowman, The'),
('1976', 'Maitresse'),
('1987', 'Disorderlies'),
('1991', 'Raging Bull'),
('1991', 'Garrison Keillor's Home'),
('1938', 'Overland Stage Raiders'),
('1938', 'Pals of the Saddle'),
('1982', 'Alone in the Dark'),
('1971', 'Beguiled, The'),
('1979', 'Escape from Alcatraz'),
('1948', 'Criss Cross'),
('1976', 'Midway'),
('1990', 'Indiana Jones & the Last Crusade'),
('1993', 'Duel'),
('1991', 'Separate but Equal'),
('1924', 'Gosta Berling's Saga'),
('1986', 'Platoon'),
('1963', 'Crawling Hand, The'),
('1971', 'Willy Wonka & the Chocolate Factory'),
('1971', 'Joe Kidd'),
('1985', 'Santa Claus, The Movie'),
('1938', 'Boys Town'),
('1990', 'Erasure, Live Wild!'),
('1982', 'A Question of Honor'),
('1947', 'Check Your Guns'),
('1947', 'West to Glory'),
('1937', 'Throwback, The'),
('1992', 'Border Feud'),
('1947', 'Fighting Vigilantes, The'),
('1947', 'Law of the Lash'),
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('1949', 'Outlaw Country'),
('1992', 'Return of the Lash'),
('1937', 'Mystery of the Hooded Horsemen'),
('1937', 'Tex Rides with the Boy Scouts'),
('1949', 'Shadows of the West'),
('1991', 'Instant Karma'),
('1957', 'Time Lock'),
('1953', 'Appointment in Honduras'),
('1982', 'Danton'),
('1960', 'Alamo, The'),
('1986', 'La Chevre, (The Goat)'),
('1985', 'Les Comperes'),
('1990', 'Dead Poets Society'),
('1952', 'Othello, The Lost Masterpiece'),
('1949', 'Battleground, The'),
('1976', 'Kings of the Road (In the Course of Time)'),
('1990', 'Hiroshima'),
('1982', 'Return of Martin Guerre, The'),
('1956', 'Somebody up There Likes Me'),
('1955', 'Jack Benny Show'),
('1962', 'Mutiny on the Bounty'),
('1989', 'Death Valley Days, Deadly Decision'),
('1986', 'Monty Python's Flying Circus'),
('1986', 'Monty Python's Flying Circus, Vol 1.'),
('1986', 'Monty Python's Flying Circus, Vol 2.'),
('1986', 'Monty Python's Flying Circus, Vol 3.'),
('1990', 'Valkenvania'),
('1982', 'Secret Policeman's Other Ball, The'),
('1981', 'Taming of the Shrew, The'),
('1964', 'From Russia with Love'),
('1993', 'Offence, The'),
('1992', 'Hollywood Mavericks'),
('1990', 'Live at Harrah's'),
('1992', 'Persuaders, The Overture, The'),
('1977', 'Nineteen Hundred'),
('1989', 'Van, The'),
('1972', 'My Country Right or Wrong'),
('1991', 'Clint Eastwood Collection, The'),
('1991', 'Complete Dirty Harry, Magnum Force, The'),
('1992', 'Dead Pool, The'),
('1992', 'Good, the Bad & the Ugly, The'),
('1959', 'Rawhide, Premiere Episode'),
('1992', 'Tightrope'),
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('1987', 'Hearts of Fire'),
('1992', 'How the West Was Won'),
('1992', 'Mummy's Hand, The'),
('1993', 'Great White Death'),
('1986', 'Mosquito Coast, The'),
('1993', 'Today We Kill....Tomorrow We Die'),
('1991', 'Tormenta Sobre Arizona'),
('1989', 'Back to the Future II'),
('1959', 'Maverick, Duel at Sundown'),
('1983', 'Shakespeare Series'),
('1973', 'Deadly Trackers'),
('1992', 'American Film Institute, Alfred Hitchcock'),
('1990', 'A Married Man'),
('1982', 'Othello'),
('1975', 'Only Way Home, The'),
('1953', 'Tales of Tomorrow'),
('1991', 'Inherit the Wind'),
('1990', 'This Is Horror'),
('1992', 'Conversation Piece'),
('1992', 'Crimson Pirate, The'),
('1992', 'Devil's Disciple, The'),
('1992', 'Hallelujah Trail, The'),
('1992', 'Train, The'),
('1986', 'Jay Leno: The American Dream'),
('1990', 'Primal Rage'),
('1990', 'Industrial Symphony, The Dream of the Broken-Hearted'),
('1986', 'Howie Mandel's North American Watusi Tour'),
('1989', 'Branford Marsalis, Steep'),
('1991', 'L. A. Story'),
('1986', 'Steve Martin Live!'),
('1974', 'Steve Martin, The Funnier Side of Eastern Canada'),
('1993', 'Runaway Barge, The'),
('1992', 'Romulus & the Sabines'),
('1989', 'Saint, The'),
('1983', 'Strange Brew'),
('1990', 'Another Forty-Eight Hours'),
('1989', 'Best of Eddie Murphy, Saturday Night Live, The'),
('1991', 'What about Bob?'),
('1953', 'Mummy's Revenge, The'),
('1992', 'Harper'),
('1992', 'Left Handed Gun, The'),
('1989', 'Once upon a Wheel'),
('1992', 'Prize, The'),
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('1968', 'Secret War of Harry Frigg, The'),
('1990', 'Two Jakes, The'),
('1989', 'Exile in Concert'),
('1987', 'Joe Piscopo New Jersey Special'),
('1991', 'Joe Piscopo Video, The'),
('1989', 'Death Valley Days, No Gun Behind His Badge'),
('1988', 'Salsa: The Motion Picture'),
('1991', "Hollywood's Greatest War Movies"),
('1991', 'Out for Justice'),
('1956', 'Case of the Mukkinese Battle Horn, The'),
('1953', 'Goon Show Movie, The'),
('1975', 'Great McGonagall, The'),
('1991', "I'm All Right Jack"),
('1991', 'Magic Christian, The'),
('1960', 'Never Let Go'),
('1991', 'Pink Panther, The'),
('1991', 'Two-Way Stretch'),
('1988', 'Face at the Window, The'),
('1958', 'Tom Thumb'),
('1989', 'Beartooth'),
('1979', 'James Taylor in Concert'),
('1942', 'Gangbusters'),
('1992', 'El Rublo de las Dos Caras'),
('1992', 'Law & Jake Wade, The'),
('1967', 'Chuka'),
('1980', 'Cry of the Innocent'),
('1991', 'Edison the Man'),
('1991', 'Keeper of the Flame'),
('1991', 'Spencer Tracy Legacy, The'),
('1957', 'Cheyenne, The Iron Trail'),
('1992', 'Dawn Rider, The'),
('1993', 'Duke, The Films of John Wayne'),
('1939', 'Frontier Horizon'),
('1934', 'Hell Town'),
('1932', 'Hurricane Express'),
('1932', 'Hurricane Express, The'),
('1965', "In Harm's Way"),
('1991', 'John Wayne Collection, Red River, The'),
('1992', "John Wayne Collector's Limited Edition"),
('1991', 'John Wayne Four Pack'),
('1939', 'John Wayne Matinee Double Feature, No. 2'),
('1939', 'John Wayne Matinee Double Feature, No. 3'),
('1938', 'John Wayne Matinee Double Feature, No. 4'),
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('1990', 'John Wayne Six Pack'),  
( '1991', 'John Wayne Western Greats, Rio Bravo'),  
( '1991', 'King of the Pecos'),  
( '1992', 'Lawless Frontier'),  
( '1991', 'Lawless Frontier, The'),  
( '1991', 'Lawless Nineties, The'),  
( '1934', 'Lucky Texan'),  
( '1992', 'McQ'),  
( '1993', 'Neath Arizona Skies'),  
( '1991', 'Neath the Arizona Skies'),  
( '1991', 'Randy Rides Alone'),  
( '1993', 'Range Feud'),  
( '1992', 'Red River'),  
( '1991', 'Riders of Destiny'),  
( '1990', 'Sagebrush Trail'),  
( '1932', 'Shadow of the Eagle, The'),  
( '1989', 'Blood & Guns'),  
( '1988', 'Hot Money'),  
( '1977', 'Comedy Tonight'),  
( '1991', 'Robin Williams')]]]
```

```
In [18]: # 3. Find the 25 most popular movies released during 1980-1990
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
s.csv')
df.rdd.filter(lambda x:(int(x[0]) if x[0] and x[0].isdigit() else 0)>=1980 and (int(x[0]) if x[0] and x[0].is
digit() else 0) <=1990).map(lambda x: (int(x[7]) if x[7] else 0,x)).sortByKey(ascending=False).take(25)
```

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Out[18]: [(88,
  Row(Year='1980', Length=None, Title='Happy Birthday to Me', Genre='Horror', Actor='Ford, Glenn', Actress='Anderson, Melissa Sue', Director='Thompson, J. Lee', Popularity='88', Awards='No', *Image,,,,='glennFord.png,,')),
  (88,
  Row(Year='1989', Length='88', Title='Final Notice', Genre='Mystery', Actor='Gerard, Gil', Actress='Anderson, Melody', Director='Stern, Steven Hilliard', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1985', Length='55', Title='Gonzo Presents Muppet Weird Stuff', Genre='Comedy', Actor='Cleese, John', Actress='Andrews, Julie', Director=None, Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1990', Length='105', Title='Guilty by Suspicion', Genre='Drama', Actor='De Niro, Robert', Actress='Bening, Annette', Director='Winkler, Irwin', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1988', Length=None, Title='Five Corners', Genre='Drama', Actor='Robbins, Tim', Actress='Foster, Jodie', Director=None, Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1989', Length='86', Title='Let It Ride', Genre='Comedy', Actor='Dreyfuss, Richard', Actress='Garner, Teri', Director='Pytko, Joe', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1989', Length='90', Title='New Year's Day', Genre='Comedy', Actor='Jaglom, Henry', Actress='Jakobsen, Maggie', Director='Jaglom, Henry', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1990', Length='95', Title='Dangerous Pursuit', Genre='Mystery', Actor='Harrison, Gregory', Actress='Powers, Alexandra', Director='Stern, Sandor', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1986', Length='104', Title='Best of Times, The', Genre='Comedy', Actor='Williams, Robin', Actress='Reed, Pamela', Director='Spottiswoode, Roger', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1982', Length='128', Title='Ballad of Narayama, The', Genre='Drama', Actor='Ogata, Ken', Actress='Sakamoto, Sumiko', Director='Imamura, Shohei', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1986', Length='90', Title='Head Office', Genre='Comedy', Actor='Reinhold, Judge', Actress='Seymour, Jane', Director='Finkleman, Ken', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
  (88,
  Row(Year='1985', Length='161', Title='Out of Africa', Genre='Drama', Actor='Redford, Robert', Actress='Streep, Meryl', Director='Pollack, Sydney', Popularity='88', Awards='Yes', *Image,,,,='merylStreep.png,,')),

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(88,
 Row(Year='1990', Length=None, Title='Blood in, Blood Out', Genre='Drama', Actor='Penn, Sean', Actress=None,
 Director='Olmos, Edward James', Popularity='88', Awards='No', *Image,,,,='NicholasCage.png,,')),
(87,
 Row(Year='1981', Length='135', Title='Choice of Arms', Genre='Action', Actor='Montand, Yves', Actress='Dene
 uve, Catherine', Director='Corneau, Alan', Popularity='87', Awards='No', *Image,,,,='NicholasCage.png,,')),
(87,
 Row(Year='1986', Length='120', Title='Jean de Florette', Genre='Drama', Actor='Montand, Yves', Actress='Dep
 ardieu, Elizabeth', Director='Berri, Claude', Popularity='87', Awards='Yes', *Image,,,,='NicholasCage.png,,')),
(87,
 Row(Year='1989', Length='107', Title='Star Trek V: The Final Frontier', Genre='Action', Actor='Shatner, Wil
 liam', Actress='Nichols, Nichelle', Director='Shatner, William ', Popularity='87', Awards='No', *Image,,,,
 ='NicholasCage.png,,')),
(87,
 Row(Year='1989', Length='74', Title='B. A. D. Cats', Genre='Action', Actor='Morrow, Vic', Actress='Pfeiffe
 r, Michelle', Director=None, Popularity='87', Awards='No', *Image,,,,='MichellePfeiffer.png,,')),
(87,
 Row(Year='1987', Length='98', Title='Russkies', Genre='Action', Actor='Hubley, Whip', Actress=None, Directo
 r='Rosenthal, Rick', Popularity='87', Awards='No', *Image,,,,='NicholasCage.png,,')),
(87,
 Row(Year='1990', Length=None, Title='John Wayne Six Pack', Genre='Western', Actor='Wayne, John', Actress=No
 ne, Director=None, Popularity='87', Awards='No', *Image,,,,='johnWayne.png,,')),
(86,
 Row(Year='1981', Length='129', Title='For Your Eyes Only', Genre='Action', Actor='Moore, Roger', Actress='B
 ouquet, Carole', Director='Glen, John', Popularity='86', Awards='No', *Image,,,,='NicholasCage.png,,')),
(86,
 Row(Year='1989', Length='113', Title='Twin Peaks', Genre='Mystery', Actor='MacLachlan, Kyle', Actress='Che
 n, Joan', Director='Lynch, David', Popularity='86', Awards='No', *Image,,,,='kyle.png,,')),
(86,
 Row(Year='1989', Length='127', Title='Fat Man & Little Boy', Genre='Drama', Actor='Newman, Paul', Actress
 ='Dern, Laura', Director='Joffe, Roland', Popularity='86', Awards='No', *Image,,,,='paulNewman.png,,')),
(86,
 Row(Year='1986', Length='93', Title='Golden Child, The', Genre='Comedy', Actor='Murphy, Eddie', Actress='Le
 wis, Charlotte', Director='Ritchie, Michael', Popularity='86', Awards='No', *Image,,,,='NicholasCage.png,,')),
(86,
 Row(Year='1985', Length='96', Title='Out of the Darkness', Genre='Mystery', Actor='Sheen, Martin', Actress
 ='Salt, Jennifer', Director='Taylor, Jud', Popularity='86', Awards='No', *Image,,,,='NicholasCage.png,,')),
(86,
 Row(Year='1985', Length='56', Title='Fozzie's Muppet Scrapbook', Genre='Comedy', Actor='Berle, Milton', Act
 ress='Sills, Beverly', Director=None, Popularity='86', Awards='No', *Image,,,,='NicholasCage.png,,'))]

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```
In [34]: # 4. Find the average length of the movies of each genre.
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
s.csv')
def findAverageLength(x):
    genre=x[0]
    records=list(x[1])
    sum=0
    count=0
    for indRecord in records:
        sum=sum+indRecord
        count=count+1

    return genre,(sum/count) if count > 0 else None

df.rdd.map(lambda x: (x[3],int(x[1]) if x[1] and x[1].isdigit() else 0)).groupByKey().map(lambda x: findAvera
geLength(x)).collect()
```

```
Out[34]: [('CAT', 0.0),
('Comedy', 92.74545454545455),
('Horror', 90.63157894736842),
('Action', 98.89268292682927),
('Drama', 110.19083969465649),
('Mystery', 97.23364485981308),
('Science Fiction', 106.47368421052632),
('Music', 95.81395348837209),
('War', 110.02941176470588),
('Westerns', 104.0),
('Western', 85.19327731092437),
(None, 120.5),
('Short', 40.0),
('Adventure', 119.0),
('Crime', 66.0),
('Romance', 127.0),
('Fantasy', 102.0)]
```

```
In [42]: # 5. Find the Lead actor and Lead actress pair who have acted in more than one movie together.  
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie  
s.csv')  
df.rdd.map(lambda x: ((x[4],x[5]),1)).reduceByKey(lambda x,y: x+y).filter(lambda x: x[1]>1).collect()
```

```

Out[42]: [ (('Trintignant, Jean-Louis', 'Aimee, Anouk'), 3),
  (('Björnstrand, Gunnar', 'Andersson, Harriet'), 3),
  (('Hopkins, Anthony', 'Bancroft, Anne'), 2),
  (('Ronet, Maurice', 'Bardot, Brigitte'), 2),
  (('Gere, Richard', 'Basinger, Kim'), 2),
  (('Adolphson, Edvin', 'Bergman, Ingrid'), 2),
  (('Grant, Cary', 'Bergman, Ingrid'), 2),
  (('Eastwood, Clint', 'Bloom, Verna'), 2),
  (('Depardieu, Gérard', 'Deneuve, Catherine'), 2),
  (('Montand, Yves', 'Deneuve, Catherine'), 2),
  (('Sellers, Peter', 'Ekland, Britt'), 2),
  (('Allen, Woody', 'Farrow, Mia'), 2),
  (('Hamill, Mark', 'Fisher, Carrie'), 3),
  (('Gilbert, John', 'Garbo, Greta'), 3),
  (('Stone, Lewis', 'Garbo, Greta'), 2),
  (('Douglas, Melvyn', 'Garbo, Greta'), 2),
  (('Schwarzenegger, Arnold', 'Hamilton, Linda'), 2),
  (('Russell, Kurt', 'Hawn, Goldie'), 2),
  (('Chase, Chevy', 'Hawn, Goldie'), 2),
  (('Ford, Glenn', 'Hayworth, Rita'), 3),
  (('Tracy, Spencer', 'Hepburn, Katharine'), 11),
  (('Allen, Woody', 'Keaton, Diane'), 5),
  (('Hogan, Paul', 'Kozlowski, Linda'), 2),
  (('Dillon, Matt', 'Lane, Diane'), 2),
  (('Eastwood, Clint', 'Locke, Sondra'), 2),
  (('Quinn, Anthony', 'Loren, Sophia'), 2),
  (('Mastroianni, Marcello', 'Loren, Sophia'), 3),
  (('Sellers, Peter', 'MacLaine, Shirley'), 2),
  (('None', 'Madonna'), 6),
  (('Eastwood, Clint', 'Mason, Marsha'), 2),
  (('Banderas, Antonio', 'Maura, Carmen'), 2),
  (('Shatner, William', 'Nichols, Nichelle'), 2),
  (('Brown, Johnny Mack', 'O'Day, Nell'), 3),
  (('Wayne, John', 'O'Hara, Maureen'), 4),
  (('Williams, Robin', 'Reed, Pamela'), 2),
  (('Cleese, John', 'Scales, Prunella'), 2),
  (('Pullman, Bill', 'Schaal, Wendy'), 2),
  (('Brando, Marlon', 'Simmons, Jean'), 2),
  (('Nicholson, Jack', 'Streep, Meryl'), 2),
  (('De Niro, Robert', 'Streep, Meryl'), 2),
  (('Burton, Richard', 'Taylor, Elizabeth'), 3),
  (('Wayne, John', 'Trevor, Claire'), 2),
  (('Douglas, Michael', 'Turner, Kathleen'), 2),

```

```
((('Sydow, Max von', 'Ullman, Liv'), 2),
 (('Reynolds, Burt', 'Welch, Raquel'), 2),
 (('Newman, Paul', 'Woodward, Joanne'), 3),
 (('Cooper, Gary', None), 2),
 (('Lancaster, Burt', None), 12),
 (('Wilder, Gene', None), 2),
 (('Wayne, John', None), 42),
 (('Connery, Sean', None), 7),
 (('Van Damme, Jean-Claude', None), 2),
 (('Hutton, Timothy', None), 2),
 (('Brando, Marlon', None), 5),
 (('Depardieu, Gérard', None), 4),
 (('Moore, Roger', None), 5),
 (('Sellers, Peter', None), 12),
 (('Ford, Wallace', None), 2),
 (('Sutherland, Donald', None), 2),
 (('Eastwood, Clint', None), 14),
 (('Hopper, Dennis', None), 2),
 (('Karloff, Boris', None), 2),
 (('Piscopo, Joe', None), 3),
 (('Tracy, Spencer', None), 8),
 (('Hale, Monte', None), 4),
 (('Lane, Allan', None), 3),
 (('Welles, Orson', None), 4),
 (('Murphy, Eddie', None), 5),
 (('Cleese, John', None), 5),
 (('Nicholson, Jack', None), 3),
 (('Taylor, Rod', None), 3),
 (('Chapman, Graham', None), 6),
 (('Slaughter, Tod', None), 2),
 (('Taylor, Robert', None), 3),
 (('Mifune, Toshiro', None), 7),
 ((None, None), 2),
 (('Ford, Glenn', None), 5),
 (('Klein-Rogge, Rudolf', None), 2),
 (('Williams, Robin', None), 6),
 (('Harris, Richard', None), 2),
 (('Moore, Dudley', None), 2),
 (('Hopkins, Anthony', None), 3),
 (('Newman, Paul', None), 7),
 (('Redford, Robert', None), 2),
 (('Martin, Steve', None), 4),
 (('Scott, George C.', None), 2),
```



```
(( 'De Niro, Robert', None), 2),  
(( 'Ford, Harrison', None), 2),  
(( 'Dean, Eddie', None), 2),  
(( 'LaRue, Lash', None), 5),  
(( 'Ritter, Tex', None), 2)]
```

```
In [46]: # 5. VERSION 2 (CONSIDERING BOTH PAIRS) Find the Lead actor and Lead actress pair who have acted in more than one movie together.  
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie  
S.csv')  
df.rdd.map(lambda x: ((x[4], x[5]), 1)).reduceByKey(lambda x, y: x + y).filter(lambda x: x[1] > 1) \  
    .flatMap(lambda x: [(x[0][0], x[0][1]), (x[0][1], x[0][0])]) \  
    .distinct() \  
    .collect()
```

```
Out[46]: [('Trintignant, Jean-Louis', 'Aimee, Anouk'),
          ('Aimee, Anouk', 'Trintignant, Jean-Louis'),
          ('Björnstrand, Gunnar', 'Andersson, Harriet'),
          ('Andersson, Harriet', 'Björnstrand, Gunnar'),
          ('Hopkins, Anthony', 'Bancroft, Anne'),
          ('Bancroft, Anne', 'Hopkins, Anthony'),
          ('Ronet, Maurice', 'Bardot, Brigitte'),
          ('Bardot, Brigitte', 'Ronet, Maurice'),
          ('Gere, Richard', 'Basinger, Kim'),
          ('Basinger, Kim', 'Gere, Richard'),
          ('Adolphson, Edvin', 'Bergman, Ingrid'),
          ('Bergman, Ingrid', 'Adolphson, Edvin'),
          ('Grant, Cary', 'Bergman, Ingrid'),
          ('Bergman, Ingrid', 'Grant, Cary'),
          ('Eastwood, Clint', 'Bloom, Verna'),
          ('Bloom, Verna', 'Eastwood, Clint'),
          ('Depardieu, Gérard', 'Deneuve, Catherine'),
          ('Deneuve, Catherine', 'Depardieu, Gérard'),
          ('Montand, Yves', 'Deneuve, Catherine'),
          ('Deneuve, Catherine', 'Montand, Yves'),
          ('Sellers, Peter', 'Ekland, Britt'),
          ('Ekland, Britt', 'Sellers, Peter'),
          ('Allen, Woody', 'Farrow, Mia'),
          ('Farrow, Mia', 'Allen, Woody'),
          ('Hamill, Mark', 'Fisher, Carrie'),
          ('Fisher, Carrie', 'Hamill, Mark'),
          ('Gilbert, John', 'Garbo, Greta'),
          ('Garbo, Greta', 'Gilbert, John'),
          ('Stone, Lewis', 'Garbo, Greta'),
          ('Garbo, Greta', 'Stone, Lewis'),
          ('Douglas, Melvyn', 'Garbo, Greta'),
          ('Garbo, Greta', 'Douglas, Melvyn'),
          ('Schwarzenegger, Arnold', 'Hamilton, Linda'),
          ('Hamilton, Linda', 'Schwarzenegger, Arnold'),
          ('Russell, Kurt', 'Hawn, Goldie'),
          ('Hawn, Goldie', 'Russell, Kurt'),
          ('Chase, Chevy', 'Hawn, Goldie'),
          ('Hawn, Goldie', 'Chase, Chevy'),
          ('Ford, Glenn', 'Hayworth, Rita'),
          ('Hayworth, Rita', 'Ford, Glenn'),
          ('Tracy, Spencer', 'Hepburn, Katharine'),
          ('Hepburn, Katharine', 'Tracy, Spencer'),
          ('Allen, Woody', 'Keaton, Diane'),
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('Keaton, Diane', 'Allen, Woody'),
('Hogan, Paul', 'Kozlowski, Linda'),
('Kozlowski, Linda', 'Hogan, Paul'),
('Dillon, Matt', 'Lane, Diane'),
('Lane, Diane', 'Dillon, Matt'),
('Eastwood, Clint', 'Locke, Sondra'),
('Locke, Sondra', 'Eastwood, Clint'),
('Quinn, Anthony', 'Loren, Sophia'),
('Loren, Sophia', 'Quinn, Anthony'),
('Mastroianni, Marcello', 'Loren, Sophia'),
('Loren, Sophia', 'Mastroianni, Marcello'),
('Sellers, Peter', 'MacLaine, Shirley'),
('MacLaine, Shirley', 'Sellers, Peter'),
(None, 'Madonna'),
('Madonna', None),
('Eastwood, Clint', 'Mason, Marsha'),
('Mason, Marsha', 'Eastwood, Clint'),
('Banderas, Antonio', 'Maura, Carmen'),
('Maura, Carmen', 'Banderas, Antonio'),
('Shatner, William', 'Nichols, Nichelle'),
('Nichols, Nichelle', 'Shatner, William'),
('Brown, Johnny Mack', 'O'Day, Nell'),
('O'Day, Nell', 'Brown, Johnny Mack'),
('Wayne, John', 'O'Hara, Maureen'),
('O'Hara, Maureen', 'Wayne, John'),
('Williams, Robin', 'Reed, Pamela'),
('Reed, Pamela', 'Williams, Robin'),
('Cleese, John', 'Scales, Prunella'),
('Scales, Prunella', 'Cleese, John'),
('Pullman, Bill', 'Schaal, Wendy'),
('Schaal, Wendy', 'Pullman, Bill'),
('Brando, Marlon', 'Simmons, Jean'),
('Simmons, Jean', 'Brando, Marlon'),
('Nicholson, Jack', 'Streep, Meryl'),
('Streep, Meryl', 'Nicholson, Jack'),
('De Niro, Robert', 'Streep, Meryl'),
('Streep, Meryl', 'De Niro, Robert'),
('Burton, Richard', 'Taylor, Elizabeth'),
('Taylor, Elizabeth', 'Burton, Richard'),
('Wayne, John', 'Trevor, Claire'),
('Trevor, Claire', 'Wayne, John'),
('Douglas, Michael', 'Turner, Kathleen'),
('Turner, Kathleen', 'Douglas, Michael'),
```

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('Sydow, Max von', 'Ullman, Liv'),
('Ullman, Liv', 'Sydow, Max von'),
('Reynolds, Burt', 'Welch, Raquel'),
('Welch, Raquel', 'Reynolds, Burt'),
('Newman, Paul', 'Woodward, Joanne'),
('Woodward, Joanne', 'Newman, Paul'),
('Cooper, Gary', None),
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('Lancaster, Burt', None),
(None, 'Lancaster, Burt'),
('Wilder, Gene', None),
(None, 'Wilder, Gene'),
('Wayne, John', None),
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('Connery, Sean', None),
(None, 'Connery, Sean'),
('Van Damme, Jean-Claude', None),
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('Brando, Marlon', None),
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('Depardieu, Gérard', None),
(None, 'Depardieu, Gérard'),
('Moore, Roger', None),
(None, 'Moore, Roger'),
('Sellers, Peter', None),
(None, 'Sellers, Peter'),
('Ford, Wallace', None),
(None, 'Ford, Wallace'),
('Sutherland, Donald', None),
(None, 'Sutherland, Donald'),
('Eastwood, Clint', None),
(None, 'Eastwood, Clint'),
('Hopper, Dennis', None),
(None, 'Hopper, Dennis'),
('Karloff, Boris', None),
(None, 'Karloff, Boris'),
('Piscopo, Joe', None),
(None, 'Piscopo, Joe'),
('Tracy, Spencer', None),
(None, 'Tracy, Spencer'),
('Hale, Monte', None),
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(None, 'Hale, Monte'),  
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(None, 'Lane, Allan'),  
(None, 'Welles, Orson'),  
(None, 'Welles, Orson'),  
(None, 'Murphy, Eddie'),  
(None, 'Murphy, Eddie'),  
(None, 'Cleese, John'),  
(None, 'Cleese, John'),  
(None, 'Nicholson, Jack'),  
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(None, 'Mifune, Toshiro'),  
(None, None),  
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(None, 'Ford, Glenn'),  
(None, 'Klein-Rogge, Rudolf'),  
(None, 'Klein-Rogge, Rudolf'),  
(None, 'Williams, Robin'),  
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(None, 'Harris, Richard'),  
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(None, 'Moore, Dudley'),  
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(None, 'Hopkins, Anthony'),  
(None, 'Newman, Paul'),  
(None, 'Newman, Paul'),  
(None, 'Redford, Robert'),  
(None, 'Redford, Robert'),  
(None, 'Martin, Steve'),  
(None, 'Martin, Steve'),  
(None, 'Scott, George C.'),  
(None, 'Scott, George C.'),  
(None, 'De Niro, Robert'),
```

```
(None, 'De Niro, Robert'),  
('Ford, Harrison', None),  
(None, 'Ford, Harrison'),  
('Dean, Eddie', None),  
(None, 'Dean, Eddie'),  
('LaRue, Lash', None),  
(None, 'LaRue, Lash'),  
('Ritter, Tex', None),  
(None, 'Ritter, Tex')]
```

```
In [68]: # 6. Find the names of directors who directed movies of both the mystery and drama genres.
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
s.csv')

mystery=df.rdd.filter(lambda x:(x[3]=='Comedy') and x[6]).map(lambda x:(x[6],x[3])).distinct()
drama=df.rdd.filter(lambda x: (x[3]=='Drama') and x[6]).map(lambda x: (x[6],x[3])).distinct()
mystery.join(drama).collect()
```



```
Out[68]: [('Almodóvar, Pedro', ('Comedy', 'Drama')),
          ('Scorsese, Martin', ('Comedy', 'Drama')),
          ('Rosenberg, Stuart', ('Comedy', 'Drama')),
          ('Jewison, Norman', ('Comedy', 'Drama')),
          ('Szabó, István', ('Comedy', 'Drama')),
          ('Daniel, Rod', ('Comedy', 'Drama')),
          ('Gilbert, Lewis', ('Comedy', 'Drama')),
          ('Coppola, Francis Ford', ('Comedy', 'Drama')),
          ('Altman, Robert', ('Comedy', 'Drama')),
          ('Brickman, Paul', ('Comedy', 'Drama')),
          ('Lumet, Sidney', ('Comedy', 'Drama')),
          ('Spielberg, Steven', ('Comedy', 'Drama')),
          ('Bill, Tony', ('Comedy', 'Drama')),
          ('Levinson, Barry', ('Comedy', 'Drama')),
          ('Russell, Ken', ('Comedy', 'Drama')),
          ('Bogdanovich, Peter', ('Comedy', 'Drama')),
          ('Beresford, Bruce', ('Comedy', 'Drama')),
          ('Jarmusch, Jim', ('Comedy', 'Drama')),
          ('Hitchcock, Alfred', ('Comedy', 'Drama')),
          ('Weir, Peter', ('Comedy', 'Drama')),
          ('Eastwood, Clint', ('Comedy', 'Drama')),
          ('Demme, Jonathan', ('Comedy', 'Drama')),
          ('Donaldson, Roger', ('Comedy', 'Drama')),
          ('Annaud, Jean-Jacques', ('Comedy', 'Drama')),
          ('Byrum, John', ('Comedy', 'Drama')),
          ('Gilbert, Brian', ('Comedy', 'Drama')),
          ('Minnelli, Vincente', ('Comedy', 'Drama')),
          ('Zemeckis, Robert', ('Comedy', 'Drama')),
          ('Vigne, Daniel', ('Comedy', 'Drama')),
          ('De Palma, Brian', ('Comedy', 'Drama')),
          ('Fellini, Federico', ('Comedy', 'Drama')),
          ('Forbes, Bryan', ('Comedy', 'Drama')),
          ('Forman, Milos', ('Comedy', 'Drama')),
          ('Mackendrick, Alexander', ('Comedy', 'Drama')),
          ('Resnais, Alain', ('Comedy', 'Drama')),
          ('Veber, Francis', ('Comedy', 'Drama')),
          ('Ford, John', ('Comedy', 'Drama')),
          ('Koster, Henry', ('Comedy', 'Drama')),
          ('Benton, Robert', ('Comedy', 'Drama')),
          ('Bergman, Ingmar', ('Comedy', 'Drama')),
          ('Gilliam, Terry', ('Comedy', 'Drama')),
          ('Anthony, Joseph', ('Comedy', 'Drama')),
          ('Lee, Spike', ('Comedy', 'Drama'))]
```

```
('Ray, Nicholas', ('Comedy', 'Drama')),  
('Taylor, Sam', ('Comedy', 'Drama')),  
('Hill, George Roy', ('Comedy', 'Drama')),  
('Allen, Woody', ('Comedy', 'Drama')),  
('De Sica, Vittorio', ('Comedy', 'Drama')),  
('Pollack, Sydney', ('Comedy', 'Drama')),  
('Blier, Bertrand', ('Comedy', 'Drama')),  
('Nichols, Mike', ('Comedy', 'Drama')),  
('Schepisi, Fred', ('Comedy', 'Drama')),  
('Ross, Herbert', ('Comedy', 'Drama')),  
('Beatty, Warren', ('Comedy', 'Drama')),  
('Cukor, George', ('Comedy', 'Drama')),  
('Donen, Stanley', ('Comedy', 'Drama')),  
('Miller, Robert Ellis', ('Comedy', 'Drama')),  
('Taylor, Jud', ('Comedy', 'Drama')),  
('Dearden, Basil', ('Comedy', 'Drama')),  
('Mankiewicz, Joseph L.', ('Comedy', 'Drama')),  
('Badham, John', ('Comedy', 'Drama')),  
('Cooper, Jackie', ('Comedy', 'Drama')),  
('Huston, John', ('Comedy', 'Drama')),  
('Poitier, Sidney', ('Comedy', 'Drama')),  
('Aldrich, Robert', ('Comedy', 'Drama')),  
('Logan, Joshua', ('Comedy', 'Drama'))]
```

```
In [60]: # 6 (B). find names of directors and all the genres of movies they have directed  
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie  
s.csv')  
df.rdd.map(lambda x:(x[6],x[3])).groupByKey().map(lambda x: (x[0],list(x[1]))).collect()
```

[https://htmtopdf.herokuapp.com/ipynbviewer/temp/19373545a88913b6c3bbbee1fd377bf2f/Lab4\\_Pyspark\\_Movies\\_L200921.html?t=1708675979316](https://htmtopdf.herokuapp.com/ipynbviewer/temp/19373545a88913b6c3bbbee1fd377bf2f/Lab4_Pyspark_Movies_L200921.html?t=1708675979316)

```
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(('Lelouch, Claude', ['Drama', 'Drama', 'Drama'])),  
(('Puenzo, Luiz', ['Drama'])),  
(('Kulik, Buzz', ['Drama'])),  
(('Hitchcock, Alfred',  
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('Donner, Richard', ['Comedy', 'Action', 'Action', 'Adventure']),
('Spielberg, Steven',
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('Glaser, Paul Michael', ['Science Fiction']),
('Hopkins, Stephen', ['Action', 'Horror']),
('Hopper, Dennis', ['Drama', 'Drama', 'Drama', 'Drama', 'Drama']),
('Pillsbury, Sam', ['Drama']),
('Sinise, Gary', ['Drama']),
('Thompson, J. Lee', ['Horror']),
('Stern, Steven Hilliard', ['Mystery', 'Drama']),
('Altman, Robert', ['Drama', 'Comedy']),
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('Sherman, George', ['Action', 'Western', 'Western']),
('Ludwig, Edward', ['Western', 'War']),
('O'Herlihy, Michael", ['Western']),
('Benedek, Laslo', ['Drama']),
('Forbes, Bryan', ['Drama', 'Comedy']),
('Smith, Charles Martin', ['Horror']),
('Masterson, Peter', ['Drama']),
('Costa-Gavras', ['Drama', 'Drama']),
('Ivory, James', ['Drama', 'Drama']),
('Richardson, Tony', ['Drama', 'Action']),
('Taylor, Dan', ['Action']),
('Hunt, Peter R.', ['Action', 'Action']),
('Winkler, Henry', ['Music']),
('Fisher, Jack', ['Drama']),
('Clark, Bob', ['Comedy']),
('DeVito, Danny', ['Comedy']),
('Clement, Dick', ['Comedy']),
('Reiner, Carl', ['Comedy', 'Comedy']),
('Compton, Richard', [None]),
('Birch, Patricia', ['Music']),
('Kloves, Steve', ['Drama']),
('Landis, John', ['Comedy', 'Comedy']),
('Towne, Robert', ['Mystery']),
('Edzard, Christine', ['Drama']),
('Baker, Graham', ['Action']),
('Stern, Sandor', ['Mystery', 'Drama']),
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('Cook, Fielder', ['Comedy', 'Comedy']),
('Donner, Clive', ['Comedy', 'Comedy']),
('Zucker, David', ['Comedy']),
('Tatoulis, Colin South, John', ['Drama']),
('Reitman, Ivan', ['Comedy', 'Comedy']),
('Thomas, Dave', ['Comedy']),
('Colla, Richard A.', ['Drama', 'Action']),
('Scheerer, Robert', ['Drama']),
('Patterson, Willi', ['Drama']),
('Rossi, Franco', ['Drama']),
('Waggner, George', ['Action']),
('Bonerz, Peter', ['Comedy']),
('Myerson, Alan', ['Comedy']),
('Paris, Jerry', ['Comedy']),
('Segal, Alex', ['Drama']),
('Spottiswoode, Roger', ['Comedy']),
('Schlöndorff, Volker', ['Drama']),
('Schrader, Paul', ['Mystery']),
('Deutch, Howard', ['Drama', 'Drama', 'Horror']),
('Rohmer, Eric', ['Comedy']),
('Schumacher, Joel', ['Drama', 'Horror']),
('Cimino, Michael', ['Mystery', 'Drama', 'Drama', 'Action']),
('Howard, Ron', ['Comedy', 'Science Fiction']),
('Taylor, Baz', ['Mystery']),
('Totten, Robert', ['Western']),
('Morneau, Louis', ['Action']),
('Cooper, Jackie', ['Drama', 'Comedy']),
('Annaud, Jean-Jacques', ['Comedy', 'Drama']),
('Silver, Marisa', ['Drama']),
('Phillips, Maurice', ['Comedy']),
('Quinn, John', ['Horror']),
('Grant, James Edward', ['Western']),
('Patrick, John', ['Comedy']),
('Abrahams, Jim', ['Comedy', 'Comedy']),
('Bogart, Paul', ['Comedy']),
('Preminger, Otto', ['Drama']),
('Imamura, Shohei', ['Drama']),
('Haines, Fred', ['Drama']),
('Jordan, Glenn', ['Drama']),
('Palcy, Euzhan', ['Drama']),
('Sharman, Jim', ['Music']),
('Bondarchuk, Sergei', ['Drama']),
('Travis, Mark W.', ['Comedy']),
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('Antonioni, Michelangelo', ['Drama']),
('Gillard, Stuart', ['Drama']),
('Wendkos, Paul', ['Drama']),
('Finkleman, Ken', ['Comedy']),
('Bunuel, Luis', ['Comedy']),
('Manning, Michelle', ['Action']),
('Rosenthal, Rick', ['Drama', 'Action']),
('Zeffirelli, Franco', ['Drama']),
('Mizrahi, Moshe', ['Drama']),
('Poitier, Sidney', ['Drama', 'Comedy']),
('Hunter, Tim', ['Drama']),
('Kadar, Jan', ['Drama']),
('Clayton, Jack', ['Drama']),
('King, Stephen', ['Horror']),
('Wharmby, Tony', ['Drama']),
('Jackson, Donald G', ['Action', 'Science Fiction']),
('Green, Alfred E.', ['Drama']),
('Mate, Rudolph', ['Action', 'Drama']),
('Morahan, Christopher', ['Comedy']),
('Verhoeven, Paul', ['Mystery', 'Action']),
('Ouellette, Jean-Paul', ['Drama']),
('Corman, Roger', ['Drama', 'Western', 'Action', 'Horror', 'Horror']),
('Brooks, Albert', ['Comedy']),
('Grosbard, Ulu', ['Drama']),
('Reisz, Karel', ['Drama']),
('Zemeckis, Robert', ['Drama', 'Comedy']),
('Streisand, Barbra', ['Music']),
('Towns, Philip Saville', ['Drama']),
('Cromwell, John', ['Drama']),
('Weeks, Stephen', ['Action']),
('Antonio, Lou', ['Drama']),
('Griffi, Giuseppe Patroni', ['Drama']),
('Hutton, Brian G.', ['Drama', 'War']),
('Losey, Joseph', ['Drama']),
('Prince, Harold', ['Music']),
('Trikonis, Gus', ['Drama']),
('Wilcox, Fred M', ['Drama']),
('Ruggles, Wesley', ['Western']),
('Petrie, Donald', ['Comedy']),
('Savoca, Nancy', ['Action']),
('Beebe, Ford', ['Western']),
('Wimhurst, Jolyon', ['Music']),
('Mandel, Robert', ['Action']),
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('Matthau, Charles', ['Comedy']),
('Apted, Michael', ['Comedy', 'Action']),
('Marshall, George', ['Western']),
('Couturie, Bill', ['War']),
('Teague, Lewis', ['Action']),
('Zemeckis, Robert ', ['Action']),
('Farrow, John', ['War']),
('Lawton, J.F.', ['Comedy']),
('Battersby, Roy', ['Comedy']),
('Dembo, Richard', ['Drama']),
('Logan, Joshua', ['Drama', 'Music', 'Comedy']),
('Hulton, Brian G.', ['War']),
('Kaurismäki, Mika', ['Action']),
('Kronsberg, Jeremy Joe', ['Comedy']),
('Plone, Allen', ['Horror']),
('Caton-Jones, Michael', ['Comedy']),
('Roth, Bobby', ['Comedy']),
('Fincher, David', ['Science Fiction']),
('Jeunet, Jean-Pierre', ['Science Fiction']),
('Vigne, Daniel', ['Comedy', 'Drama']),
('Flicker, Theodore J.', ['Comedy']),
('Hancock, John D.', ['Drama']),
('De Filippo, Eduardo', ['Mystery']),
('Fleischer, Richard', ['Action']),
('Wilder, Billy', ['Comedy']),
('Yorkin, Bud', ['Comedy']),
('Ward, David S.', ['Comedy']),
('Walters, Charles', ['Music']),
('Serious, Yahoo', ['Comedy']),
('Wolfe, Donald', ['Horror']),
('Heisler, Stuart', ['Drama']),
('Hellman, Oliver', ['Horror']),
('Madsen, Kenneth', ['Drama']),
('Leone, Sergio', ['Westerns', 'Westerns']),
('Betnel, Jonathan', ['Comedy']),
('Neame, Ronald', ['Action']),
('Morrissey, Paul', ['Comedy']),
('Newman, Paul', ['Drama', 'Drama', 'Drama', 'Drama']),
('Miles, Christopher', ['Action']),
('Simon, S. Sylvan', ['Drama']),
('Allen, Craig', ['Drama']),
('Anderson, Michael', ['Mystery']),
('Annakin, Ken', ['War']),
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('Arnold, Newt', ['Action']),
('Aslanian, Samson', ['Horror']),
('August, Bille', ['Drama']),
('Becker, Harold', ['Drama']),
('Bogner, Willy', ['Action']),
('Boulting, John', ['Comedy']),
('Brando, Marlon', ['Western']),
('Cannon, Raymond', ['Comedy']),
('Carlsen, Henning', ['Drama']),
('Chaplin, Charles', ['Comedy']),
('Clair, Rene', ['Drama']),
('Clegg, Tom', ['Action']),
('Dale, Cynthia', ['Drama']),
('De Bello, John', ['Comedy', 'Comedy']),
('Degas, Andre', ['Drama']),
('Di Leo, Mario', ['Action']),
('Douglas, Kirk', ['Western']),
('Fanaka, Jamaa', ['Action']),
('Ford, Philip',
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('Forsyth, Bill', ['Comedy']),
('Gower, Bruce', ['Comedy']),
('Graef, Roger', ['Comedy']),
('Guest, Val', ['Comedy']),
('Guney, Yilmaz', ['Drama']),
('Hardy, Rod', ['Drama']),
('Harrington, Curtis', ['Drama']),
('Hellman, Monte', ['Action', 'Western']),
('Heyes, Douglas', ['Western']),
('Houck, Joy, Jr.', ['Horror']),
('Hudson, Hugh', ['Drama']),
('Hughes, Terry', ['Comedy']),
('Irvin, John', ['Mystery']),
('Jackson, Mick', ['Drama']),
('Jarman, Derek', ['Comedy']),
('Jones, Chris', ['Action']),
('Kalatozov, Mikhail', ['Action']),
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('Kellogg, Ray', ['War']),
('Kennedy, Burt', ['Action']),
('King, George', ['Mystery']),
('Lennon, Biddy W.', ['Drama']),
('Leo, Malcolm', ['Comedy']),
('Lester, Mark L.', ['Drama']),
('Lloyd, Frank', ['Drama']),
('Lucidi, Maurizio', ['Action']),
('Ludman, Larry', ['Action', 'War']),
('Mackendrick, Alexander', ['Comedy', 'Drama']),
('MacNaughton, Ian', ['Comedy']),
('McEveety, Vincent', ['Action']),
('McGann, William', ['Western']),
('Menzel, Jiri', ['Drama']),
('Miller, David', ['Drama', 'Action']),
('Mischer, Don', ['Comedy']),
('Murphy, Eddie', ['Comedy', 'Comedy']),
('Nelson, Gary', ['Western']),
('Newell, Mike', ['Drama']),
('Nicholson, Arch', ['Action', 'Mystery']),
('Nigh, William', ['Mystery']),
('O'Connor, Pat', ['Drama']),
('Oliver, Ron', ['Horror']),
('Olmos, Edward James', ['Drama']),
('Owen, Cliff', ['Comedy']),
('Patterson, Richard', ['Action']),
('Peckinpah, Sam', ['Western']),
('Penn, Leo', ['Drama']),
('Perier, Etienne', ['Comedy']),
('Petrie, Daniel', ['Drama']),
('Pontecorvo, Gillo', ['Drama']),
('Pyun, Albert', ['Action']),
('Quine, Richard', ['Comedy']),
('Quisenberry, Byron', ['Horror']),
('Rademakers, Fons', ['Drama']),
('Reed, Jerry', ['Drama']),
('Robinson, John Mark', ['Action']),
('Rochlin, Sheldon', ['Music']),
('Sanger, Jonathan', ['Drama']),
('Schultz, Michael', ['Comedy']),
('Sevush, Herb', ['Comedy']),
('Sholder, Jack', ['Horror']),
('Siodmak, Robert', ['Drama']),
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('Smight, Jack', ['War']),  
('Stevens, George, Jr.', ['Drama']),  
('Stiller, Mauritz', ['Drama']),  
('Strock, Herbert L.', ['Science Fiction']),  
('Stuart, Mel', ['Music']),  
('Szwarc, Jeannot', ['Comedy']),  
('Taurog, Norman', ['Drama']),  
('Taylor, Gavin', ['Music']),  
('Taylor, Roderick', ['Comedy']),  
('Thomas, Gerald', ['Drama']),  
('Tourneur, Jacques', ['Drama']),  
('Wajda, Andrzej', ['Drama']),  
('Wayne, John', ['Action']),  
('Veber, Francis', ['Drama', 'Comedy']),  
('Werner, Peter', ['Drama'])]
```

```
In [92]: # 7. Find each director and find the average, max, and min ranking of his movies.
df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
s.csv')
def findInfo(records):
    minX=float('-inf')
    maxX=float('-inf')
    sumX=0
    countX=0
    for rec in records:
        if(rec<minX):
            minX=rec
        if(rec>maxX):
            maxX=rec
        sumX = sumX + rec
        countX = countX + 1

    avgX= sumX/countX if countX > 0 else None
    return ('Average Ranking: '+str(avgX), 'Maximum Ranking: '+str(maxX), 'Minimum Ranking: '+str(minX))
df.rdd.map(lambda x:(x[6],float(x[7]) if x[7] and x[7].isdigit() else 0)).groupByKey().map(lambda x:(x[0],fin
dInfo(list(x[1])))).collect()
```

```

Out[92]: [('CAT', ('Average Ranking: 0.0', 'Maximum Ranking: 0', 'Minimum Ranking: 0')),
          ('Almodóvar, Pedro',
           ('Average Ranking: 62.33333333333336',
            'Maximum Ranking: 73.0',
            'Minimum Ranking: 34.0'))),
          ('Cronenberg, David',
           ('Average Ranking: 39.375',
            'Maximum Ranking: 79.0',
            'Minimum Ranking: 21.0'))),
          ('Lester, Richard',
           ('Average Ranking: 25.0', 'Maximum Ranking: 63.0', 'Minimum Ranking: 6.0'))),
          ('Malick, Terrence',
           ('Average Ranking: 14.0', 'Maximum Ranking: 14.0', 'Minimum Ranking: 14.0'))),
          ('Glen, John',
           ('Average Ranking: 64.33333333333333',
            'Maximum Ranking: 86.0',
            'Minimum Ranking: 39.0'))),
          ('Loma, José Antonio de la',
           ('Average Ranking: 14.0', 'Maximum Ranking: 14.0', 'Minimum Ranking: 14.0'))),
          ('Sebastian, Beverly',
           ('Average Ranking: 50.5', 'Maximum Ranking: 73.0', 'Minimum Ranking: 28.0'))),
          ('Besson, Luc',
           ('Average Ranking: 22.75', 'Maximum Ranking: 72.0', 'Minimum Ranking: 6.0'))),
          ('Nuytten, Bruno',
           ('Average Ranking: 32.0', 'Maximum Ranking: 32.0', 'Minimum Ranking: 32.0'))),
          ('Bergman, Ingmar',
           ('Average Ranking: 42.206896551724135',
            'Maximum Ranking: 87.0',
            'Minimum Ranking: 0.0'))),
          ('Bertolucci, Bernardo',
           ('Average Ranking: 36.0', 'Maximum Ranking: 72.0', 'Minimum Ranking: 1.0'))),
          ('Lelouch, Claude',
           ('Average Ranking: 33.666666666666664',
            'Maximum Ranking: 49.0',
            'Minimum Ranking: 6.0'))),
          ('Puenzo, Luiz',
           ('Average Ranking: 39.0', 'Maximum Ranking: 39.0', 'Minimum Ranking: 39.0'))),
          ('Kulik, Buzz',
           ('Average Ranking: 51.0', 'Maximum Ranking: 51.0', 'Minimum Ranking: 51.0'))),
          ('Hitchcock, Alfred',
           ('Average Ranking: 42.44117647058823',
            'Maximum Ranking: 78.0',
            'Minimum Ranking: 2.0'))),

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('Ford, John',
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  'Maximum Ranking: 88.0',
  'Minimum Ranking: 1.0')),
('Coppola, Francis Ford',
 ('Average Ranking: 30.785714285714285',
  'Maximum Ranking: 78.0',
  'Minimum Ranking: 4.0')),
('Donner, Richard',
 ('Average Ranking: 59.75',
  'Maximum Ranking: 87.0',
  'Minimum Ranking: 15.0')),
('Spielberg, Steven',
 ('Average Ranking: 17.1', 'Maximum Ranking: 48.0', 'Minimum Ranking: 4.0')),
('Glaser, Paul Michael',
 ('Average Ranking: 31.0', 'Maximum Ranking: 31.0', 'Minimum Ranking: 31.0')),
('Hopkins, Stephen',
 ('Average Ranking: 60.0', 'Maximum Ranking: 79.0', 'Minimum Ranking: 41.0')),
('Hopper, Dennis',
 ('Average Ranking: 31.0', 'Maximum Ranking: 70.0', 'Minimum Ranking: 4.0')),
('Pillsbury, Sam',
 ('Average Ranking: 80.0', 'Maximum Ranking: 80.0', 'Minimum Ranking: 80.0')),
('Sinise, Gary',
 ('Average Ranking: 53.0', 'Maximum Ranking: 53.0', 'Minimum Ranking: 53.0')),
('Thompson, J. Lee',
 ('Average Ranking: 88.0', 'Maximum Ranking: 88.0', 'Minimum Ranking: 88.0')),
('Stern, Steven Hilliard',
 ('Average Ranking: 81.5', 'Maximum Ranking: 88.0', 'Minimum Ranking: 75.0')),
('Altman, Robert',
 ('Average Ranking: 11.0', 'Maximum Ranking: 19.0', 'Minimum Ranking: 3.0')),
(None,
 ('Average Ranking: 40.569169960474305',
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  'Minimum Ranking: 0.0')),
('Huston, John',
 ('Average Ranking: 49.111111111111114',
  'Maximum Ranking: 81.0',
  'Minimum Ranking: 6.0')),
('Hughes, Ken',
 ('Average Ranking: 11.0', 'Maximum Ranking: 11.0', 'Minimum Ranking: 11.0')),
('Young, Terence',
 ('Average Ranking: 7.0', 'Maximum Ranking: 7.0', 'Minimum Ranking: 7.0')),
('Edwards, Blake',

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('Average Ranking: 54.57142857142857',  
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(('Hill, George Roy',  
  ('Average Ranking: 48.5', 'Maximum Ranking: 83.0', 'Minimum Ranking: 8.0'))),  
(('Konchalovsky, Andrei',  
  ('Average Ranking: 32.666666666666664',  
   'Maximum Ranking: 82.0',  
   'Minimum Ranking: 7.0'))),  
(('Wise, Robert',  
  ('Average Ranking: 57.5', 'Maximum Ranking: 77.0', 'Minimum Ranking: 38.0'))),  
(('Depardieu, Gérard',  
  ('Average Ranking: 67.0', 'Maximum Ranking: 67.0', 'Minimum Ranking: 67.0'))),  
(('Alda, Alan',  
  ('Average Ranking: 32.5', 'Maximum Ranking: 53.0', 'Minimum Ranking: 12.0'))),  
(('Attenborough, Richard',  
  ('Average Ranking: 54.333333333333336',  
   'Maximum Ranking: 85.0',  
   'Minimum Ranking: 7.0'))),  
(('Russell, Ken',  
  ('Average Ranking: 32.9', 'Maximum Ranking: 76.0', 'Minimum Ranking: 4.0'))),  
(('Kagan, Jeremy Paul',  
  ('Average Ranking: 18.0', 'Maximum Ranking: 19.0', 'Minimum Ranking: 17.0'))),  
(('Vanwagenen, Sterling',  
  ('Average Ranking: 3.0', 'Maximum Ranking: 3.0', 'Minimum Ranking: 3.0'))),  
(('Lyne, Adrian',  
  ('Average Ranking: 34.0', 'Maximum Ranking: 61.0', 'Minimum Ranking: 7.0'))),  
(('Noyce, Phillip',  
  ('Average Ranking: 14.5', 'Maximum Ranking: 28.0', 'Minimum Ranking: 1.0'))),  
(('Truffaut, François',  
  ('Average Ranking: 52.666666666666664',  
   'Maximum Ranking: 82.0',  
   'Minimum Ranking: 10.0'))),  
(('Howson, Frank',  
  ('Average Ranking: 68.0', 'Maximum Ranking: 68.0', 'Minimum Ranking: 68.0'))),  
(('Lang, Fritz',  
  ('Average Ranking: 47.72727272727273',  
   'Maximum Ranking: 80.0',  
   'Minimum Ranking: 4.0'))),  
(('Milius, John',  
  ('Average Ranking: 45.25', 'Maximum Ranking: 83.0', 'Minimum Ranking: 2.0'))),  
(('Purcell, Evelyn',  
  ('Average Ranking: 52.0', 'Maximum Ranking: 52.0', 'Minimum Ranking: 52.0'))),
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('Scorsese, Martin',
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('Seidelman, Susan',
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('May, Elaine',
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('Thorpe, Richard',
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('Crosland, Alan',
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('Axel, Gabriel',
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('Young, Terrence',
 ('Average Ranking: 8.0', 'Maximum Ranking: 8.0', 'Minimum Ranking: 8.0')),
('Donaggio, Michael Winner',
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('Lumet, Sidney',
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  'Maximum Ranking: 48.0',
  'Minimum Ranking: 1.0')),
('Wellman, William',
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('Gilbert, Lewis',
 ('Average Ranking: 46.75',
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('Winning, David',
 ('Average Ranking: 34.5', 'Maximum Ranking: 61.0', 'Minimum Ranking: 8.0')),
('Bradley, Al',
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('Frankenheimer, John',
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('Jones, David',
 ('Average Ranking: 9.0', 'Maximum Ranking: 9.0', 'Minimum Ranking: 9.0')),
('Lynch, David',
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('DeCoteau, David',
 ('Average Ranking: 70.0', 'Maximum Ranking: 70.0', 'Minimum Ranking: 70.0')),
('Romero, George A.',
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('Aurel, Jean',
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('Boisrond, Michel',
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('Bourguignon, Serge',
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('Koster, Henry',
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  'Maximum Ranking: 84.0',
  'Minimum Ranking: 22.0')),
('Malle, Louis',
 ('Average Ranking: 27.333333333333332',
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  'Minimum Ranking: 17.0')),
('Molinaro, Edouard',
 ('Average Ranking: 34.0', 'Maximum Ranking: 34.0', 'Minimum Ranking: 34.0')),
('Surin, Fred',
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('Thomas, Ralph',
 ('Average Ranking: 83.0', 'Maximum Ranking: 83.0', 'Minimum Ranking: 83.0')),
('Vadim, Roger',
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('Lambert, Mary',
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('Schaffner, Franklin J.',
 ('Average Ranking: 8.5', 'Maximum Ranking: 9.0', 'Minimum Ranking: 8.0')),
('Bakshi, Ralph',
 ('Average Ranking: 44.0', 'Maximum Ranking: 44.0', 'Minimum Ranking: 44.0')),

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('Heston, Charlton',
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('Joanou, Phil',
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('Kershner, Irvin',
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  'Minimum Ranking: 6.0')),
('Moxey, John Llewellyn',
 ('Average Ranking: 71.0', 'Maximum Ranking: 71.0', 'Minimum Ranking: 71.0')),
('Pearce, Richard',
 ('Average Ranking: 11.0', 'Maximum Ranking: 11.0', 'Minimum Ranking: 11.0')),
('Rees, Jerry',
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('Reiner, Rob',
 ('Average Ranking: 48.0', 'Maximum Ranking: 48.0', 'Minimum Ranking: 48.0')),
('Philips, Lee',
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('Drury, David',
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('Mastorakis, Nico',
 ('Average Ranking: 0.0', 'Maximum Ranking: 0.0', 'Minimum Ranking: 0.0')),
('Pakula, Alan J.',
 ('Average Ranking: 44.5', 'Maximum Ranking: 69.0', 'Minimum Ranking: 15.0')),
('DeMille, Cecil B.',
 ('Average Ranking: 59.0', 'Maximum Ranking: 59.0', 'Minimum Ranking: 59.0')),
('Rosenberg, Stuart',
 ('Average Ranking: 46.0', 'Maximum Ranking: 55.0', 'Minimum Ranking: 34.0')),
('Taylor, Jud',
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('Winkler, Irwin',
 ('Average Ranking: 88.0', 'Maximum Ranking: 88.0', 'Minimum Ranking: 88.0')),
('Ford, Greg',
 ('Average Ranking: 68.0', 'Maximum Ranking: 68.0', 'Minimum Ranking: 68.0')),
('Nichols, Mike',
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  'Minimum Ranking: 10.0')),
('Rush, Richard',

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('Cukor, George',
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('Donen, Stanley',
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('Edgren, Gustaf',
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('Fleming, Victor',
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('Gibson, Alan',
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('Green, Guy',
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('Lindberg, Per',
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('Litvak, Anatole',
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('McCarey, Leo',
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('Molander, Gustav',
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('Renoir, Jean',
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  'Minimum Ranking: 34.0')),
('Saks, Gene',
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('Holzman, Allan',
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('Prior, David A.',
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('Clark, Jim',
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('Forman, Milos',
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('Seaton, George',
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('Rafelson, Bob',
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('Schlesinger, John',
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  'Minimum Ranking: 33.0')),
('Hamilton, Guy',
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('Boorman, John',
 ('Average Ranking: 12.666666666666666',
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  'Minimum Ranking: 3.0')),
('Bernds, Edward',
 ('Average Ranking: 0.0', 'Maximum Ranking: 0', 'Minimum Ranking: 0')),
('Leigh, Jason',
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('Nelson, Ralph',
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('Eastwood, Clint',
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('Barker, Clive',
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('Pialat, Maurice',
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('Varda, Agnes',
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('Gilliam, Terry',
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('Anthony, Joseph',
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('McTiernan, John',
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('Ford, Aleksander',
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('Wicki, Bernhard',
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('Polanski, Roman',
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('Crichton, Michael',
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  'Minimum Ranking: 7.0')),
('Lambert, Bruce',
 ('Average Ranking: 13.8', 'Maximum Ranking: 26.0', 'Minimum Ranking: 0')),
('Friedkin, William',
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('Anger, Kenneth',
 ('Average Ranking: 62.0', 'Maximum Ranking: 62.0', 'Minimum Ranking: 62.0')),
('Lee, Spike',
 ('Average Ranking: 33.666666666666664',
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  'Minimum Ranking: 5.0')),
('Cannon, Dyan',
 ('Average Ranking: 6.0', 'Maximum Ranking: 6.0', 'Minimum Ranking: 6.0')),
('Claxton, William F.',
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('Bergman, Robert',
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('Day, Robert',
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('Huyck, Willard',
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('Ruben, Joseph',
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('Scott, Ridley',
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('Duigan, John',
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('Clément, René',
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('Gries, Tom',
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('Taylor, Don',
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('Mackenzie, John',
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('Theumer, Ernst R. von',
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('Dante, Joe',
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('Heckerling, Amy',
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('Gottlieb, Michael',
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('Seiter, William A.',
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('Ray, Nicholas',
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('Jewison, Norman',
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('Miller, George',
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('Lathan, Stan',
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('Rifkin, Adam',
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('Englund, George',
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('Taylor, Sam',

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('Ritt, Martin',
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('Siegel, Don',
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('Penn, Arthur',
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('Weill, Claudia',
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('Szabó, István',
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('Crichton, Charles',
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('Beineix, Jean-Jacques',
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('S, Jeremiah',
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('Kurosawa, Akira',
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('Wright, Thomas J.',
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('Goulding, Edmund',
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('Mankiewicz, Joseph L.',
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('Wyler, William',
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('Castle, Nick',
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('Wrede, Caspar',
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('Pollack, Sydney',
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('Curtiz, Michael',
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('Brest, Martin',
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('Collins, Lewis D.',
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('Chomsky, Marvin J.',
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('Belson, Jerry',

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('Coolidge, Martha',
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('Stanley, Paul',
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('Mann, Michael',
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('De Palma, Brian',
 ('Average Ranking: 35.0', 'Maximum Ranking: 82.0', 'Minimum Ranking: 7.0')),
('Seltzer, David',
 ('Average Ranking: 11.0', 'Maximum Ranking: 11.0', 'Minimum Ranking: 11.0')),
('Kuzui, Fran Rubel',
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('Cameron, James',
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  'Minimum Ranking: 8.0')),
('Guillermin, John',
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('Bill, Tony',
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('Carpenter, John',
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('Chapman, Michael',
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('Davis, Andrew',
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('Foley, James',
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('Jordan, Neil',
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  'Minimum Ranking: 17.0')),
('Conway, Jack',
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('Barnard, Michael',
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('Katselas, Milton',
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('Miller, Robert Ellis',
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('Oz, Frank',
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  'Minimum Ranking: 22.0')),
('Sandrich, Jay',
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('Zieff, Howard',
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('Sherman, Vincent',
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('Welles, Orson',
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('Reeve, Geoffrey',
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('Thompson, Brett',
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('Ramis, Harold',
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('Barrett, Lezli-An',  
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('Magnoli, Albert',  
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('Marshall, Penny',
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('Herman, Mark',
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('Webb, Millard',
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('Scott, Tony',
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('Kikoine, Gerard',
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('King, Rick',
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('Blot, Philippe',
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('Coppola, Christopher',
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('Hook, Harry',
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('Rosenthal, Rick',
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 ('Average Ranking: 33.5', 'Maximum Ranking: 61.0', 'Minimum Ranking: 6.0')),
('Mischer, Don',
 ('Average Ranking: 68.0', 'Maximum Ranking: 68.0', 'Minimum Ranking: 68.0')),
('Murphy, Eddie',
 ('Average Ranking: 31.0', 'Maximum Ranking: 51.0', 'Minimum Ranking: 11.0')),
('Nelson, Gary',
 ('Average Ranking: 47.0', 'Maximum Ranking: 47.0', 'Minimum Ranking: 47.0')),
('Newell, Mike',
 ('Average Ranking: 42.0', 'Maximum Ranking: 42.0', 'Minimum Ranking: 42.0')),
('Nicholson, Arch',
 ('Average Ranking: 6.0', 'Maximum Ranking: 9.0', 'Minimum Ranking: 3.0')),
('Nigh, William',
 ('Average Ranking: 71.0', 'Maximum Ranking: 71.0', 'Minimum Ranking: 71.0')),
('O'Connor, Pat",
 ('Average Ranking: 57.0', 'Maximum Ranking: 57.0', 'Minimum Ranking: 57.0')),
('Oliver, Ron',
 ('Average Ranking: 29.0', 'Maximum Ranking: 29.0', 'Minimum Ranking: 29.0')),
('Olmos, Edward James',
 ('Average Ranking: 88.0', 'Maximum Ranking: 88.0', 'Minimum Ranking: 88.0')),
('Owen, Cliff',
 ('Average Ranking: 25.0', 'Maximum Ranking: 25.0', 'Minimum Ranking: 25.0')),
('Patterson, Richard',
 ('Average Ranking: 59.0', 'Maximum Ranking: 59.0', 'Minimum Ranking: 59.0')),
('Peckinpah, Sam',
 ('Average Ranking: 50.0', 'Maximum Ranking: 50.0', 'Minimum Ranking: 50.0')),
('Penn, Leo',
 ('Average Ranking: 13.0', 'Maximum Ranking: 13.0', 'Minimum Ranking: 13.0')),
('Perier, Etienne',
 ('Average Ranking: 70.0', 'Maximum Ranking: 70.0', 'Minimum Ranking: 70.0')),
('Petrie, Daniel',
 ('Average Ranking: 26.0', 'Maximum Ranking: 26.0', 'Minimum Ranking: 26.0')),
('Pontecorvo, Gillo',
 ('Average Ranking: 75.0', 'Maximum Ranking: 75.0', 'Minimum Ranking: 75.0')),
('Pyun, Albert',
 ('Average Ranking: 31.0', 'Maximum Ranking: 31.0', 'Minimum Ranking: 31.0')),
('Quine, Richard',
 ('Average Ranking: 12.0', 'Maximum Ranking: 12.0', 'Minimum Ranking: 12.0')),
('Quisenberry, Byron',
 ('Average Ranking: 24.0', 'Maximum Ranking: 24.0', 'Minimum Ranking: 24.0')),
('Rademakers, Fons',
 ('Average Ranking: 71.0', 'Maximum Ranking: 71.0', 'Minimum Ranking: 71.0')),

```

```

('Reed, Jerry',
 ('Average Ranking: 49.0', 'Maximum Ranking: 49.0', 'Minimum Ranking: 49.0')),
('Robinson, John Mark',
 ('Average Ranking: 20.0', 'Maximum Ranking: 20.0', 'Minimum Ranking: 20.0')),
('Rochlin, Sheldon',
 ('Average Ranking: 82.0', 'Maximum Ranking: 82.0', 'Minimum Ranking: 82.0')),
('Sanger, Jonathan',
 ('Average Ranking: 22.0', 'Maximum Ranking: 22.0', 'Minimum Ranking: 22.0')),
('Schultz, Michael',
 ('Average Ranking: 69.0', 'Maximum Ranking: 69.0', 'Minimum Ranking: 69.0')),
('Sevush, Herb',
 ('Average Ranking: 6.0', 'Maximum Ranking: 6.0', 'Minimum Ranking: 6.0')),
('Sholder, Jack',
 ('Average Ranking: 75.0', 'Maximum Ranking: 75.0', 'Minimum Ranking: 75.0')),
('Siodmak, Robert',
 ('Average Ranking: 77.0', 'Maximum Ranking: 77.0', 'Minimum Ranking: 77.0')),
('Smight, Jack',
 ('Average Ranking: 36.0', 'Maximum Ranking: 36.0', 'Minimum Ranking: 36.0')),
('Stevens, George, Jr.',
 ('Average Ranking: 56.0', 'Maximum Ranking: 56.0', 'Minimum Ranking: 56.0')),
('Stiller, Mauritz',
 ('Average Ranking: 63.0', 'Maximum Ranking: 63.0', 'Minimum Ranking: 63.0')),
('Strock, Herbert L.',
 ('Average Ranking: 79.0', 'Maximum Ranking: 79.0', 'Minimum Ranking: 79.0')),
('Stuart, Mel',
 ('Average Ranking: 65.0', 'Maximum Ranking: 65.0', 'Minimum Ranking: 65.0')),
('Szwarc, Jeannot',
 ('Average Ranking: 19.0', 'Maximum Ranking: 19.0', 'Minimum Ranking: 19.0')),
('Taurog, Norman',
 ('Average Ranking: 21.0', 'Maximum Ranking: 21.0', 'Minimum Ranking: 21.0')),
('Taylor, Gavin',
 ('Average Ranking: 48.0', 'Maximum Ranking: 48.0', 'Minimum Ranking: 48.0')),
('Taylor, Roderick',
 ('Average Ranking: 47.0', 'Maximum Ranking: 47.0', 'Minimum Ranking: 47.0')),
('Thomas, Gerald',
 ('Average Ranking: 5.0', 'Maximum Ranking: 5.0', 'Minimum Ranking: 5.0')),
('Tournour, Jacques',
 ('Average Ranking: 7.0', 'Maximum Ranking: 7.0', 'Minimum Ranking: 7.0')),
('Wajda, Andrzej',
 ('Average Ranking: 5.0', 'Maximum Ranking: 5.0', 'Minimum Ranking: 5.0')),
('Wayne, John',
 ('Average Ranking: 29.0', 'Maximum Ranking: 29.0', 'Minimum Ranking: 29.0')),
('Veber, Francis',

```



```
( 'Average Ranking: 39.0', 'Maximum Ranking: 54.0', 'Minimum Ranking: 24.0' )),
('Werner, Peter',
 ('Average Ranking: 17.0', 'Maximum Ranking: 17.0', 'Minimum Ranking: 17.0'))]
```

Question 2 In this example, you will use the given “Movies.csv” data file. Your task is to write an efficient spark code for finding movies (released after 1970) that might be similar or related to a movie made in the 1960’s (1960-1969). To keep things simple, for comparing two movies we will use the following fields: Genre, director, lead actor, lead actress. So, we can say two movies might be similar if they have same genre, director and same lead actor or actress.

```
In [114]: df = spark.read.option("delimiter", ";").option("header", "true").option("encoding", "ISO-8859-1").csv('Movie
S.csv')
# Extracting movies released after 1970. Then using their Genre, director,Lead actor , Lead actress as key and
d full record as value to make key-value pairs
movie1970=df.rdd.filter(lambda x: (int(x[0]) if x[0] and x[0].isdigit() else 0)>1970).map(lambda x: ((x[3],x
[6],x[4],x[5]),x))
# Extracting movies made in 1960s. Then using their Genre, director,Lead actor , Lead actress as key and full
record as value to make key-value pairs
movie60s=df.rdd.filter(lambda x: (int(x[0]) if x[0] and x[0].isdigit() else 0)>=1960 and (int(x[0]) if x[0] a
nd x[0].isdigit() else 0)<=1969).map(lambda x: ((x[3],x[6],x[4],x[5]),x))
# Join both the rdds based on their key that is Genre, director,Lead actor , Lead actress & showing movies re
leased after 1970
movie1970.join(movie60s).mapValues(lambda x: x[0]).collect()
```

```
Out[114]: [ (('Drama', 'Lelouch, Claude', 'Trintignant, Jean-Louis', 'Aimee, Anouk'),
  Row(Year='1986', Length='112', Title='A Man & a Woman: Twenty Years Later', Genre='Drama', Actor='Trintigna
nt, Jean-Louis', Actress='Aimee, Anouk', Director='Lelouch, Claude', Popularity='49', Awards='No', *Imag
e,,,,='NicholasCage.png,,')),
  (('Drama', 'Lelouch, Claude', 'Trintignant, Jean-Louis', 'Aimee, Anouk'),
  Row(Year='1986', Length='112', Title='A Man & a Woman: Twenty Years Later', Genre='Drama', Actor='Trintigna
nt, Jean-Louis', Actress='Aimee, Anouk', Director='Lelouch, Claude', Popularity='49', Awards='No', *Imag
e,,,,='NicholasCage.png,,')),
  (('War', None, 'Wayne, John', None),
  Row(Year='1991', Length=None, Title='John Wayne Collection, Red River, The', Genre='War', Actor='Wayne, Joh
n', Actress=None, Director=None, Popularity='49', Awards='No', *Image,,,,='johnWayne.png,,')),
  (('War', None, 'Wayne, John', None),
  Row(Year='1992', Length=None, Title="John Wayne Collector's Limited Edition", Genre='War', Actor='Wayne, Jo
hn', Actress=None, Director=None, Popularity='3', Awards='No', *Image,,,,='johnWayne.png,,,'))]
```

```
In [115]: # Stop the Spark session when you're done
spark.stop()
```