

python_redis_Part2

May 6, 2025

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[5]: import redis
from collections import defaultdict

# 1. Connect to Redis
rd = redis.Redis(host='redis', port=6379, decode_responses=True)

# 2. Count actors with last name starting with "P"
def count_actors_lastname_P():
    actor_keys = rd.keys("actor:*")
    count = 0
    for key in actor_keys:
        l_name = rd.hget(key, "last_name")
        if l_name and l_name.startswith("P"):
            count += 1
    return count

# 3. Movies released after 2010 with more than 100,000 votes
def movies_after_2010_votes_100k():
    movie_keys = rd.keys("movie:*")
    results = []
    for key in movie_keys:
        r_year = rd.hget(key, "release_year")
        votes = rd.hget(key, "votes")
        if r_year and votes:
            if int(r_year) > 2010 and int(votes) > 100000:
                results.append(rd.hget(key, "title"))
    return results

# 4. Create top_movies_by_genre:<genre>
def create_top_movies_by_genre():
    genre_dict = defaultdict(list)
    movie_keys = rd.keys("movie:*")

    for key in movie_keys:
        genre = rd.hget(key, "genre")
        rating = rd.hget(key, "rating")
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        title = rd.hget(key, "title")
        if genre and rating:
            genre_dict[genre].append((title, float(rating)))

    for genre, movies in genre_dict.items():
        top_movie = max(movies, key=lambda x: x[1])
        rd.hset(f"top_movies_by_genre:{genre}", mapping={
            "title": top_movie[0],
            "rating": top_movie[1]
        })

# Main execution
if __name__ == "__main__":
    print(" Actors  last_name start 'P':", count_actors_lastname_P())
    print(" Movies after 2010 with >100k votes:")
    for movie in movies_after_2010_votes_100k():
        print("*", movie)

    print("Creating top_movies_by_genre...")
    create_top_movies_by_genre()
    print("Done! Good Wiem")

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Actors  last_name start 'P': 64
Movies after 2010 with >100k votes:
* Jurassic World
* The Maze Runner
* Boyhood
* The Interview
* Everest
* The Imitation Game
* Spider-Man: Homecoming
* The Revenant
* Chappie
* Birdman or (The Unexpected Virtue of Ignorance)
* Zootopia
* Minions
* The Judge
* Star Wars: Episode VII - The Force Awakens
* Noah
* Ex Machina
* Ted 2
* Predestination
* The Theory of Everything
* 10 Cloverfield Lane
* X-Men: Apocalypse
* Iron Man 3
* Ant-Man

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- * Captain America: The Winter Soldier
- * Star Wars: Episode IX - The Rise of Skywalker
- * Need for Speed
- * The Amazing Spider-Man 2
- * Battle Los Angeles
- * Neighbors
- * The Hunger Games: Mockingjay - Part 1
- * Suicide Squad
- * Insurgent
- * Whiplash
- * Fury
- * Hercules
- * The Grand Budapest Hotel
- * Inside Out
- * Transcendence
- * Avengers: Age of Ultron
- * Divergent
- * It Follows
- * A Million Ways to Die in the West
- * Sin City: A Dame to Kill For
- * Last Vegas
- * Focus
- * Spotlight
- * American Sniper
- * The Fault in Our Stars
- * Kingsman: The Secret Service
- * Cinderella
- * Warcraft
- * Batman v Superman: Dawn of Justice
- * Steve Jobs
- * The Girl on the Train
- * Star Wars: Episode VIII - The Last Jedi
- * Creed
- * Southpaw
- * Maze Runner: The Scorch Trials
- * The Hunger Games: Mockingjay - Part 2
- * 22 Jump Street
- * The Drop
- * Jack Reacher: Never Go Back
- * John Wick
- * Sicario
- * Dawn of the Planet of the Apes
- * San Andreas
- * Spider-Man: Into the Spider-Verse
- * Terminator Genisys
- * Dracula Untold
- * Spider-Man: Far from Home
- * Unbroken

- * Spy
- * Maleficent
- * Interstellar
- * Gone Girl
- * Ghostbusters
- * The Equalizer
- * The Expendables 3
- * The Intern
- * Spectre
- * Transformers: Age of Extinction
- * Straight Outta Compton
- * Pitch Perfect 2
- * The Martian
- * Bridge of Spies
- * Black Mass
- * Fifty Shades of Grey
- * 1917
- * The Babadook
- * Deadpool
- * The Hobbit: The Battle of the Five Armies
- * Teenage Mutant Ninja Turtles
- * Mad Max: Fury Road
- * Now You See Me 2
- * The Nice Guys
- * The Conjuring 2
- * The Lego Movie
- * Furious Seven
- * The Other Woman
- * Guardians of the Galaxy Vol. 2
- * Captain America: Civil War
- * Horrible Bosses 2
- * Mission: Impossible - Rogue Nation
- * Tomorrowland
- * Jack Ryan: Shadow Recruit
- * X-Men: Days of Future Past
- * Room
- * Edge of Tomorrow
- * Star Trek Beyond
- * Nightcrawler
- * Exodus: Gods and Kings
- * Big Hero 6
- * 300: Rise of an Empire
- * Guardians of the Galaxy
- * Fantastic Four
- * Jupiter Ascending
- * The Jungle Book
- * The Big Short
- * Non-Stop

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* The Hateful Eight  
Creating top_movies_by_genre...  
Done! Good Wiem
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