# wiem Notebook Part1

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```
[35]: !pip install redis
     Requirement already satisfied: redis in /opt/conda/lib/python3.11/site-packages
     (6.0.0)
[36]: import redis
      rd = redis.Redis(host='redis', port=6379, decode_responses=True)
[37]: rd.ping()
[37]: True
     0.0.1 Q1: How many actors and movies are stored?
[46]: print(len(rd.keys("actor:*")))
      print(len(rd.keys("movie:*")))
     1324
     922
     0.0.2 Q2: List 5 actors born before 1980
[39]: actors = rd.keys("actor:*")
      results = []
      for key in actors:
          date = rd.hget(key, "date_of_birth")
          if date and int(date) < 1980:</pre>
              f_name = rd.hget(key, "first_name")
              l_name = rd.hget(key, "last_name")
              results.append((f_name, l_name, date))
          if len(results) == 5:
              break
      results
```

## 0.0.3 Q3: Get genre and rating of "The Imitation Game"

```
[40]: movies = rd.keys("movie:*")
for key in movies:
    title = rd.hget(key, "title")
    if title == "The Imitation Game":
        genre = rd.hget(key, "genre")
        rating = rd.hget(key, "rating")
        print(f"Genre: {genre}, Rating: {rating}")
        break
```

Genre: Biography, Rating: 8.5

#### 0.0.4 Q4: Top 5 highest-rated movies

```
[41]: movies = rd.keys("movie:*")
movie_ratings = []

for key in movies:
    title = rd.hget(key, "title")
    rating = rd.hget(key, "rating")
    if rating:
        movie_ratings.append((title, float(rating)))

top5 = sorted(movie_ratings, key=lambda x: x[1], reverse=True)[:5]
top5
```

### 0.0.5 Q5: How many movies have rating > 7.5

```
[42]: count = 0
for key in movies:
    rating = rd.hget(key, "rating")
    if rating and float(rating) > 7.5:
        count += 1
```

```
count
print(f"The are {count} movies have rating > 7.5")
```

The are 183 movies have rating > 7.5

### Q6: Update rating of "The Imitation Game" to 8.5

```
[43]: for key in movies:
    if rd.hget(key, "title") == "The Imitation Game":
        rd.hset(key, "rating", 8.5)
        break
print("the rating of The Imitation Game updated to 8.5")
```

rating of The Imitation Game updated to 8.5

## 0.0.6 Q7: Add actor "Zendaya", born in 1996

actor: Zendaya, born in 1996 added

#### 0.0.7 Q8: Delete movie "The room"

```
[45]: for key in movies:
    if rd.hget(key, "title") == "The Room":
        rd.delete(key)
        break
print("The room movie deleted")
```

The room movie deleted