

LAMPIRAN

Lampiran 1

Data Rating.csv

user_id	movie_id	rating	timestamp
1,2	3,5	1,112486027	
1,29	3,5	1,112484676	
1,32	3,5	1,112484819	
1,47	3,5	1,112484727	
1,50	3,5	1,112484580	
1,112	3,5	1,094785740	
1,151	4,0	1,094785734	
1,223	4,0	1,112485573	
1,253	4,0	1,112484940	
1,260	4,0	1,112484826	
1,293	4,0	1,112484703	
1,296	4,0	1,112484767	
1,318	4,0	1,112484798	
1,337	3,5	1,094785709	
1,367	3,5	1,112485980	
1,541	4,0	1,112484603	
1,589	3,5	1,112485557	
1,593	3,5	1,112484661	
1,653	3,0	1,094785691	
1,919	3,5	1,094785621	
1,924	3,5	1,094785598	
1,1009	3,5	1,112486013	

Lampiran 2

Data Movies.csv

movie_id	title	genres
1	Toy Story (1995)	Adventure Animation Children Comedy Fantasy
2	Jumanji (1995)	Adventure Children Fantasy
3	Grumpier Old Men (1995)	Comedy Romance
4	Waiting to Exhale (1995)	Comedy Drama Romance
5	Father of the Bride Part II (1995)	Comedy
6	Heat (1995)	Action Crime Thriller
7	Sabrina (1995)	Comedy Romance
8	Tom and Huck (1995)	Adventure Children
9	Sudden Death (1995)	Action
10	GoldenEye (1995)	Action Adventure Thriller
11	American President, The (1995)	Comedy Drama Romance
12	Dracula: Dead and Loving It (1995)	Comedy Horror
13	Balto (1995)	Adventure Animation Children
14	Nixon (1995)	Drama
15	Cutthroat Island (1995)	Action Adventure Romance
16	Casino (1995)	Crime Drama
17	Sense and Sensibility (1995)	Drama Romance
18	Four Rooms (1995)	Comedy
19	Ace Ventura: When Nature Calls (1995)	Comedy
20	Money Train (1995)	Action Comedy Crime Drama Thriller
21	Get Shorty (1995)	Comedy Crime Thriller
22	Copycat (1995)	Crime Drama Horror Mystery Thriller

Lampiran 3

Data Judul Film yang mempunyai rating lebih besar dari 3

movieID	title
1	Toy Story
2	Jumanji
7	Sabrina
29	City of Lost Children, The (Citā des enfants perdus, La)
32	Twelve Monkeys (a.k.a. 12 Monkeys)
47	Seven (a.k.a. Se7en)
50	Usual Suspects, The
52	Mighty Aphrodite
110	Braveheart
112	Rumble in the Bronx (Hont faan kui)
116	Anne Frank Remembered
150	Apollo 13
151	Rob Roy
223	Clerks (1994)
253	Interview with the Vampire: The Vampire Chronicles
260	Star Wars: Episode IV - A New Hope
293	The Professional (a.k.a. The Professional)
296	Pulp Fiction
318	Shawshank Redemption, The (1994)
337	What's Eating Gilbert Grape
356	Forrest Gump
364	Lion King, The

Lampiran 4

Source code implementasi algoritma Apriori

```
# APRIORI Alogorithm
# STEP 1 . Buat frequent itemsets
from collections import defaultdict

def find_frequent_itemsets(favorable_reviews_by_users, k_1_itemsets, min_support):
    counts = defaultdict(int)
    for user, reviews in favorable_reviews_by_users.items():
        for itemset in k_1_itemsets:
            if itemset.issubset(reviews):
                for other_reviewed_movie in reviews - itemset:
                    current_superset = itemset | frozenset((other_reviewed_movie,))
                    counts[current_superset] += 1
    return dict([(itemset, frequency) for itemset, frequency in counts.items() if frequency >= min_support])

import sys
frequent_itemsets = {} # itemsets diurutkan berdasarkan kombinasi item
min_support = 50

frequent_itemsets[1] = dict((frozenset((movie_id,)), row["favorable"])
                            for movie_id, row in num_favorable_by_movie.iterrows()
                            if row["favorable"] > min_support)

print("Terdapat {} film dengan lebih dari {} ulasan bagus".format(len(frequent_itemsets[1]), min_support))
sys.stdout.flush()
for k in range(2, 20):
    cur_frequent_itemsets = find_frequent_itemsets(favorable_reviews_by_users, frequent_itemsets[k-1],
                                                  min_support)

    if len(cur_frequent_itemsets) == 0:
        print("Tidak terdapat frequent itemsets dengan kombinasi {} item".format(k))
        sys.stdout.flush()
        break
    else:
        print("Terdapat {} frequent itemsets dengan kombinasi {} item".format(len(cur_frequent_itemsets), k))
        #print(cur_frequent_itemsets)
        sys.stdout.flush()
        frequent_itemsets[k] = cur_frequent_itemsets

# hapus frek itemset yang hanya terdiri dari 1 item
del frequent_itemsets[1]
```