

Tugas Modul 1
Pengenalan Data Mining
Mata Kuliah Data Mining



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1. Perhatikan data film berikut

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	homepage	id	keywords	original	literal	overview	popularity	product	release	date	runtime	spoken	status	tagline	title	vote	aver	vote	count
2	http://www.avatarmovie.com	19995	["id": 144]	Avatar	In the 22r 150.4375	["name": ["iso_3167-2009-12-787965087	162	["iso_639-3:Released	Enter the Avatar	7.2	11800								
3	http://disney.com/dsi	285	["id": 277]	Pirates of Captain B	139.0826	["name": ["iso_3167-2005-01-961000000	169	["iso_639-3:Released	At the end Pirates of	6.3	4500								
4	http://www.sonypictures.com	206647	["id": 477]	Spectre	A cryptic 107.3767	["name": ["iso_3167-2015-01-880674609	148	["iso_639-3:Released	A Plan No Spectre	6.3	4466								
5	http://www.thedarkknight.com	49026	["id": 87]	The Dark Following	112.329	["name": ["iso_3167-2012-07-108400000	152	["iso_639-3:Released	The Leger The Dark	7.6	9106								
6	http://movies.disney.com	49529	["id": 88]	John Cart John Cart	43.9269	["name": ["iso_3167-2012-04-284139014	139	["iso_639-3:Released	Lost in you John Cart	6.1	2124								
7	http://www.sonypictures.com	559	["id": 85]	Spider-M The seem	15.6998	["name": ["iso_3167-2007-05-890871626	139	["iso_639-3:Released	The battle Spider-M	5.9	3576								
8	http://disneygo.com/dsi	38757	["id": 155]	Tangled	When the 48.68196	["name": ["iso_3167-2010-11-591794936	100	["iso_639-3:Released	They're to Tangled	7.4	3330								
9	http://marvel.com/movi	99861	["id": 88]	Avengers: When Tor	134.2792	["name": ["iso_3167-2015-04-1405403964	141	["iso_639-3:Released	A New Age Avengers	7.3	6767								
10	http://harrypotterwarne	767	["id": 61]	Harry Pot As Harry	198.8563	["name": ["iso_3167-2009-07-933595917	153	["iso_639-3:Released	Dark Secret Harry Pot	6.7	5293								
11	http://www.batmanmov	209112	["id": 84]	Batman V Featng th	155.7904	["name": ["iso_3167-2016-03-873260194	151	["iso_639-3:Released	Justice Arc to Batm	5.7	7004								
12	http://www.superman.c	1452	["id": 83]	Superman Superma	97.92562	["name": ["iso_3167-2006-06-391081192	154	["iso_639-3:Released	Superma	5.4	1400								
13	http://www.mgm.com/v	107674	["id": 62]	Quantum Quantum	107.9288	["name": ["iso_3167-2008-10-586907292	156	["iso_639-3:Released	For Lost I, Quantum	6.1	2965								
14	http://disneygo.com/dsi	58	["id": 61]	Pirates of Captain J	145.8473	["name": ["iso_3167-2006-06-1065659812	151	["iso_639-3:Released	Jack Is Pirates of	7	5246								
15	http://disneygo.com/th	57201	["id": 155]	The Lone The Texas	49.04695	["name": ["iso_3167-2013-07-8298990	149	["iso_639-3:Released	Never Tak The Lone	5.9	2311								
16	http://www.manofsteel	49521	["id": 83]	Man of St A young	99.39800	["name": ["iso_3167-2013-06-662845518	143	["iso_639-3:Released	Will be Man of St	6.5	6359								
17	http://www.intertv1.com	2454	["id": 81]	The Chror One year	53.97860	["name": ["iso_3167-2008-05-419551413	150	["iso_639-3:Released	Hope has The Chror	6.3	1630								
18	http://marvel.com/aveng	24428	["id": 24]	The Aven When an	144.4486	["name": ["iso_3167-2012-04-1519595790	143	["iso_639-3:Released	Some ass The Aven	7.4	11776								
19	http://disneygo.com/plr	1865	["id": 65]	Pirates of Captain J	135.4138	["name": ["iso_3167-2011-05-1045713802	136	["iso_639-3:Released	Live Fore Pirates of	6.4	4948								
20	http://www.sonypictures.com	41154	["id": 43]	Men in Bi Agents J	52.05317	["name": ["iso_3167-2012-05-624026776	147	["iso_639-3:Released	They are Men in Bi	6.2	4160								
21	http://www.thehobbit.com	122917	["id": 41]	The Hobb immediat	120.9657	["name": ["iso_3167-2014-12-950619788	144	["iso_639-3:Released	Witness T the Hobb	7.1	4760								
22	http://www.theamazings	1930	["id": 18]	The Amaz Peter Par	89.86627	["name": ["iso_3167-2012-06-752215857	136	["iso_639-3:Released	The untel The Amaz	6.5	6586								
23	http://www.robinhood	20662	["id": 41]	Robin Hoo When so	37.66830	["name": ["iso_3167-2010-05-1063969540	140	["iso_639-3:Released	the rise of Robin Hoo	6.2	1398								
24	http://www.thehobbit.com	57158	["id": 60]	The Hobb The Dwar	94.37056	["name": ["iso_3167-2013-12-958400000	161	["iso_639-3:Released	Beyond The Hobb	7.6	4524								
25	http://www.goldencom	2268	["id": 39]	The Goldt after de	49.29909	["name": ["iso_3167-2013-07-377291854	113	["iso_639-3:Released	There are The Gold	5.8	1303								
26	http://www.fox.com	351	["id": 39]	Titanic 84 years i	100.0258	["name": ["iso_3167-2005-12-100000000	168	["iso_639-3:Released	Nothing o Titanic	7.5	7562								
27	http://www.titanic.com	5917	["id": 25]	Titanic	84 years i	100.0258	["name": ["iso_3167-1997-11-1845034188	194	["iso_639-3:Released	Nothing o Titanic	7.5	7562							
28	http://marvel.com/capta	27710	["id": 39]	Captain A Following	198.3723	["name": ["iso_3167-2016-04-1515300495	147	["iso_639-3:Released	Didn't V Captain A	7.1	7241								
29	http://www.kerr17.com	44833	["id": 28]	BattleShip When ma	64.92838	["name": ["iso_3167-2012-04-303025485	131	["iso_639-3:Released	The Battle BattleShip	5.5	2164								
30	http://www.jurassicworld	135397	["id": 127]	Jurassic V Twenty-t	418.7085	["name": ["iso_3167-2015-06-1513528804	124	["iso_639-3:Released	The park Jurassic V	5.5	8662								
31	http://www.skyfall-mov	37724	["id": 47]	Skyfall	When Boi 93.00499	["name": ["iso_3167-2012-10-1108651013	143	["iso_639-3:Released	Think on Skyfall	6.9	7604								
32	http://www.sonypictures	559	["id": 85]	Spider-M Peter Par	35.14958	["name": ["iso_3167-2004-06-8776366341	127	["iso_639-3:Released	There's a Spider-M	6.7	4303								

Data tersebut diambil dari IMDB.com terkait film yang beredar dan tersimpan beberapa detilnya seperti budget, genre, homepage, bahasa, judul, overview, dsb. Identifikasi untuk tiap detil tersebut merupakan jenis data apa saja?

Jenis data :

- Kualitatif : genres, homepage, keywords, original_language, original_title, overview, production_companies, production_countries, spoken_language, status, tagline, title
- Kuantitatif : budget, popularity, release_date, revenue, runtime, vote_average, vote_count
- Diskrit : id, vote_count
- Kontinue : budget, popularity, runtime, revenue

2. Jika anda pemilik bioskop, perusahaan pembuat film, penulis cerita, dan sutradara, kira kira apa yang dapat anda manfaatkan dari data tersebut, dan jelaskan jawaban anda.

- Pemilik Bioskop : memperhatikan table title dan production_companies serta popularity untuk memprediksi seberapa populer film tersebut untuk ditayangkan dan juga memperhatikan kolom release_date untuk mengetahui kapan film tersebut rilis.
- Perusahaan pembuat film : memperhatikan table budget yang dibutuhkan untuk produksi film dan menyesuaikan dengan revenue yang didapat.
- Penulis cerita : memperhatikan table popularity untuk membuat alur cerita yang menarik berdasarkan popularitas film sebelumnya
- Sutradara : memperhatikan table genre untuk memprediksi genre yang sesuai.

3. Buat data tentang detail teman sekelas anda, bisa berisi data nama, ttl, usia, jenis kelamin, alamat, kota tempat tinggal, jenis kendaraan yang dimiliki, pengeluaran bbm / bulan, IPK, hobi, tinggi dan berat badan, dan data lain yang mungkin bisa anda tambahkan. Dari data yang telah didapat, identifikasi jenis data, entitas yang bisa memanfaatkan dan apa saja kemungkinan pemanfaatan datanya.

Jenis data :

- Kualitatif : nama, ttl, jenis kelamin, alamat, kota tempat tinggal, jenis kendaraan,
- Kuantitatif : usia, pengeluaran BBM, IPK, tinggi badan, berat badan
- Diskrit : pengeluaran BBM, IPK
- Kontinue : tinggi badan, berat badan

Entitas yang bisa memanfaatkan data ini :

- Universitas
- Sekolah
- Lembaga kesehatan
- Lembaga dinas perhubungan dan lalu lintas