DBMS - 2

Assignment - 3



Team:

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INTRODUCTION:

- In this assignment, we have written queries based on relational tables, ER diagrams designed in assignment 1,2.
- We have done some changes to changes to the ER diagram, all of them are listed below.
- Some extra information is printed for some of the questions because we thought this way the information provided would be more informative.

ASSUMPTIONS/MODIFICATIONS:

- Assumptions made for all the queries are mentioned below the corresponding query numbers in results.
- Extra attributes are added to some of the entities to correlate our relational schema and the given data set more cohesively.
- We removed the RTC entity from the previous version, and added release_date, rating, filimedin(info) to movie & episode attributes.
- We Added Award_id attribute in the Award table.
- We added antisocial elements in tv_serirs, movies, and episodes separately.
- We removed all foreign key relations as it was becoming difficult to edit.
- We considered unique identifiers as the names wherever asked.
- We added languages, regions, and ordering to Entertainment_product. As id and ordering make a Unique key.
- We removed the location entity completely as we believe it was more of a hindrance than a helpful. So in accordance, corresponding attributes are added to the movie, tv series and episode tables.
- The cast_and_crew relation now is directly connected to entertainment product instead of separately and individually connected to episode and movie entities.
- Region, genre, language of release are now single valued attributes instead of multi valued attributes as the given data set considers these attributes as a string.

- In Person we added the Award_id attribute, which is an array of award_id's won by that person.
- Inner Join between necessary tables is used when the required data cannot be fetched from a single table.
- The Create View command is used to create data sets so that they can be referenced for the future queries or make the query search easier.
- Partition by command is used to fetch data separately corresponding to every specific group.
- Some of the questions do not have results as the given data set is not sufficient to fetch the data asked in the corresponding question.

FILES SUBMITTED:

There are some changes in the relational schema and the same were reflected in the SQL code that is submitted along with the query file. Necessary changes are made in the code to fill the tables as well as there changes in the relational schema.

Files submitted are:-

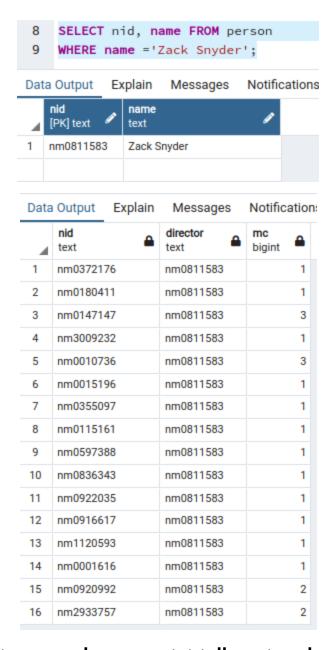
28_relation_schema.sql	Relation schema (creating tables)
28_data_base.sql	loading the tables
28_temp_data.sql	creating & loading temp tables from data set
28_query.sql	Queries for Assignment-3
28_report.pdf	Detailed report.

RESULTS Q1

4	id text ♣	movie_name text	arr text[]		
1	tt0003	In the Days of the Thundering	{nm0132324,nm0334918}		
2	tt0016	She	{nm0760547,nm0208113}		
3	tt0019	Tarzan the Mighty	{nm0625424,nm0853028}		
4	tt0021	They Learned About Women	{nm0939992,nm0176699}		
5	tt0021	Der unsterbliche Lump	{nm0879802,nm0562004}		
6	tt0024	Whistling in the Dark	{nm0718469,nm0637790}		
7	tt0026	Murder in Harlem	{nm0584778,nm0930293}		
8	tt0026	She	{nm0681635,nm0390226}		
9	tt0029	Skicka hem Nr. 7	{nm0062183,nm0906291}		
10	tt0029	Der zerbrochene Krug	{nm0417837,nm0879802}		
11	tt0031	Hell's Kitchen	{nm0243295,nm0782597}		
12	tt0031	Los hijos de la noche	{nm0674398,nm0894022}		
13	tt0032	Busman's Honeymoon	{nm0861703,nm0940499}		
14	tt0035	Hans Onsdagsveninde	{nm0491504,nm0641045}		
15	tt0036	Salainen ase	{nm0527490,nm0881407}		
16	tt0040	You Gotta Stay Happy	{nm0693281,nm0487237}		
17	tt0041	My Dream Is Yours	{nm0293989,nm0002031}		
18	tt0042	Den opvakte jomfru	{nm0491504,nm0641045}		
19	tt0043	Cerca del cielo	{nm0690041,nm0897340}		
20	tt0044	King of the Congo	{nm0071560,nm0342622}		
21	tt0046	La rosa blanca	{nm0273477,nm0553949}		
22	tt0046	Sang et lumières	{nm0745801,nm0616347}		
23	tt0048	A Life in the Balance	{nm0395105,nm0692414}		
24	tt0048	Love Is a Many-Splendored Thi	{nm0454771,nm0485871}		

Since the director list is string data type initially, it was converted to array data type later in order to know the cardinality of the list of directors corresponding to the movie

\mathbf{Q}_{2}

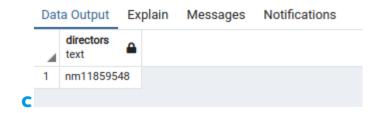


The director column was initially string data type and later was split into tables. Later natural join between movie and cast_and_crew tables is used to find director and actor pair. From there we selected the actors if their maximum movies with a director is equal to maximum movies with 'Zack Snyder'.

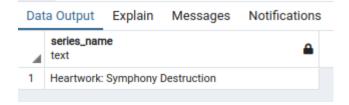
ata Outp		ifications			
4	nid text	director text	count bigint	rating double precision	4
1	nm0293530	nm0695937	1		7
2	nm0485388	nm0548096	1		7
3	nm0000818	nm1142222	1		7
4	nm0162134	nm0440317	1		7
5	nm0084435	nm0154206	1		7
6	nm5345492	nm5344999	1		
7	nm6130968	nm5954636	1		8
8	nm5544029	nm7635529	1		-
9	nm1621887	nm1528235	1		
10	nm0901513	nm0540949	1		
11	nm4583370	nm4583370	1		
12	nm0777717	nm0778247	1		
13	nm5514564	nm0952569	1		
14	nm12057790	nm10965365	1		
15	nm6816398	nm2316935	1		
16	nm1188555	nm0619162	1		
17	nm4779485	nm0673278	1		
18	nm0097008	nm1986754	1		
19	nm1621887	nm1065292	1		
20	nm5216544	nm5221134	1		
21	nm9317894	nm9311497	1		
22	nm0700354	nm0136579	1		
23	nm0878240	nm0724798	1		
24	nm1603571	nm7799316	1		
25	nm0767800	nm0710563	1		
26	nm6155343	nm6405127	1		
27	nm0949350	nm0383111	1		
28	nm0000620	nm0000233	1		
29	nm0611481	nm0320890	1		
30	nm1245618	nm0562925	1		

Dat	a Output	Ex	plain Messages	s Notification	ons
4	id [PK] text	SAN	series_name text	long_aired integer	<u> </u>
1	tt0195452		Crackerjack!	(65
2	tt0043224		The Red Skelton		65

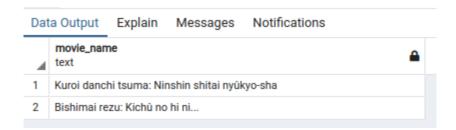
Q6

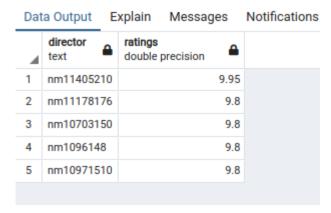


Q7



Q7_2





For this query we used the virtual table in Q2 and printed nid of directors with top rating.

- Q3) There is no required awards data corresponding to a movie to run the query
- Q9) There is no required production company data corresponding to a tv series to run the query
- Q10) There is no required Oscar awards data corresponding to a person/entertainment product to run the query
- Q12) There is no required box office collections data corresponding to a movie to run the query
- Q16) There is no required filmed in location data corresponding to a tv series to run the query

QII

Data Outp	out Explain Message	s Notifications
4	nid text	score double precision
1	nm0627864	63.9403
2	nm0001238	57.16167597765364
3	nm0002031	54.49875
4	nm0064415	48.2952380952381
5	nm0554924	44.63507462686567
6	nm0782947	44.00363636363637
7	nm0484645	43.71090909090909
8	nm0861703	42.89945736434109
9	nm0853028	40.868852459016395
10	nm0781261	40.3495867768595
11	nm0000406	40.14925
12	nm0437356	40.01470588235294
13	nm0061792	38.98823529411765
14	nm0385171	38.784
15	nm0947998	37.485727272727274
16	nm0792450	37.01238532110092
17	nm0217035	36.09133333333333
18	nm0706484	34.944117647058825
19	nm0939147	34.90970873786408
20	nm0567757	34.57415841584159
21	nm0005847	33.813737373737375
22	nm0245385	33.800714285714285
23	nm0071560	33.668571428571425
24	nm0768422	33.39642857142857
25	nm0001090	33.07767676767676
26	nm0187671	33.02360824742268
27	nm0151653	32.71351063829787

Since there are no assistant directors in the given data, we just considered directors where the corresponding multiplication factor is 1 instead of 0.8 for their movies.

Data Outp	out Explain	Messages	Notifications
4	nid text		<u> </u>
1	nm0000001		
2	nm0000002		
3	nm0000003		
4	nm0000005		
5	nm0000007		
6	nm0000008		
7	nm0000009		
8	nm0000011		
9	nm0000012		
10	nm0000013		
11	nm0000015		
12	nm0000018		
13	nm0000019		
14	nm0000020		
15	nm0000021		
16	nm0000023		
17	nm0000024		
18	nm0000027		
19	nm0000029		
20	nm0000030		
21	nm0000032		

Data O	utput Explain	Messages Notific	ations
4	release_date integer	episode_name text	min_runtime integer
1	1931	Episode dated 18 S	15
2	1931	Episode dated 21 A	15
3	1931	Episode #1.1	15
4	1931	Episode dated 2 Oct	15
5	1931	Episode dated 11 S	15
6	1932	Episode dated 26 S	15
7	1933	Episode dated 20 F	15
8	1934	Jack Frost	8
9	1935	Hoi Polloi	17
10	1936	Episode #1.1	10
11	1937	Episode #1.3	5
12	1938	Flat Foot Stooges	16
13	1939	The Almost Perfect	15
14	1940	Knock Knock	7
15	1941	Pantry Panic	7
16	1941	Woody Woodpecker	7
17	1942	Issue No. 1	11
18	1943	Issue No. 17	9
19	1943	Issue No. 18	9
20	1943	Issue No. 4	9
04	40.40		_

Data	Output	Explain Messa	ges Noti	fications	
4	id text ▲	movie_name text	genre text	rating double precision ▲	row_no bigint
1	tt6596	Bluefish	Action	9.4	1
2	tt9526	College Diary	Action	9.4	2
3	tt1041	Munduvareda Ad	Action	9.4	3
4	tt0160	Girls Loving Girls	Adult	10	1
5	tt0134	Busty Biker Babes	Adult	9.8	2
6	tt0143	Nicole's Revenge	Adult	9.7	3
7	tt1044	Uncivilized	Adventure	9.7	1
8	tt1169	Single Ladies IV	Adventure	9.7	2
9	tt1358	Surveillance Cam	Adventure	9.6	3
10	tt1237	Pets	Animation	9.6	1
11	tt6596	Bluefish	Animation	9.4	2
12	tt1286	30 Years and 15	Animation	9.2	3
13	tt1486	Lo spirito del serc	Biography	9.7	1
14	tt3854	Queen of Thursda	Biography	9.7	2
15	tt6259	Dolorosa Gioia	Biography	9.7	3
16	tt1116	Orangutan	Comedy	9.8	1
17	tt1206	Tenets of the Mal	Comedy	9.7	2
18	tt0997	Cafe Coexistence	Comedy	9.7	3
19	tt6259	Dolorosa Gioia	Crime	9.7	1
20	tt4335	De nuevo a la vida	Crime	9.5	2
21	tt5076	Baytown's Finest	Crime	9.5	3
22	tt1192	Days of Géants	Documen	10	1
23	tt1237	Barcelona - Madrid	Documen	10	2
24	tt1298	Days of Géants II	Documen	9.9	3
25	tt1320	L'aria del lago	Drama	9.8	1
26	tt6772	Parallel Parking	Drama	9.8	2
27	tt1116	Orangutan	Drama	9.8	3
28	tt1195	Mnohaya lita. Sto	Family	9.7	1
20	#1267	Ando	Family	۵ 7	2

Data	Output	Explain	Messages	Notifications		
4	id [PK] text		ø	movie_name text	release_date integer	isadult boolean
1	tt0145430			Rebecca, la signora del desiderio	1995	true
2	tt0160090			Buttman's Big Butt Backdoor Babes	1995	true
3	tt0237315			La calda vita di Al Capone	1995	true
4	tt0274142			Swedish Erotica 78	1995	true
5	tt0125344			L'ultimo treno	1995	true
6	tt0143768			Nicole's Revenge	1995	true
7	tt0122940			Angel Wolf	1995	true
8	tt0208916			Don Salvatore - L'ultimo siciliano	1995	true
9	tt0298255			The Caracas Adventure	1995	true
10	tt0124213			Wide Open Spaces	1995	true
11	tt0156261			Action Packed	1995	true
12	tt0383224			Nessa no wakusei - Jokouankan: Kate	1995	true
13	tt0110214			Tharzan - La vera storia del figlio della giungla	1995	true
14	tt0114855			Virtual Desire	1995	true
15	tt0114401			Sex and Money	1995	true
16	tt0274143			Swedish Erotica 79	1995	true
17	tt0205730			L'albero delle zoccole	1995	true
18	tt0160590			Nurses Are Cumming	1995	true
19	tt4683638			Ona's Doll House	1995	true
20	tt0156276			All Amateur Perfect 10's	1995	true
21	tt0125199			Il marito	1995	true
22	tt0124371			Della Borsa	1995	true

Since we don't have compound data of certificate & location from the given data set., we just considered ,If isAdult is true as A certificate movie. And printed Every adult movie in 1995.

Data	Output	Expla	ain Messages	Not	ifications				
4	nid text	<u></u>	name text	<u> </u>	birth_year integer	<u></u>	role text	row_no bigint	<u></u>
1	nm10913	258	Shea Lightfoot		2	019	actor		1
2	nm11929	892	Lilah Sykes		2	020	actress		1
3	nm11564	929	Wilfred Johnson		2	020	archive_footage		1
4	nm63863	78	Dom Fantana		2	000	archive_sound		1
5	nm61686	71	Mike Nijdam		2	005	cinematographer		1
6	nm55130	57	Murzylka		2	009	composer		1
7	nm12203	950	Amairani Gómez		2	020	director		1
8	nm10816	548	Tom Sykes		2	005	editor		1
9	nm85316	67	Mingze Liu		2	007	producer		1
10	nm38123	97	Taya-Morgan Moore)	2	002	production_desi		1
11	nm12222	762	Matteo Chigvintsev		2	020	self		1
12	nm11077	484	Shiloh Bearman		2	011	writer		1

For many people, birth_year was null, we eliminated persons with birth year null and partitioned by role and ordered by birth year in descending order.

Data	Output Explain Messages	Notifications
4	nid text ♣	count bigint
1	nm0000010	1
2	nm0000080	1
3	nm0000795	1
4	nm0001008	1
5	nm0001088	1
6	nm0004746	1
7	nm0006837	1
8	nm0021201	1
9	nm0118059	1
10	nm0123221	1
11	nm0326679	1
12	nm0336335	1
13	nm0347858	1
14	nm0432213	1
15	nm0493126	1
16	nm0633271	1
17	nm0649185	1
18	nm0843401	1
19	nm0850074	1
20	nm0921276	3
21	nm10596690	1
22	nm1065785	1
23	nm11957853	1
24	nm1955540	1
25	nm2233358	2
26	nm2773421	1
27	nm3498099	1
28	nm5080976	1
29	nm6650760	1
30	nm6676867	1
31	nm8973157	1

Since there is no role as music technician so we took the "archive_sound" role as a musician role.

Data Output Explain Messages Notifications			
4	nid text	<u> </u>	max_crew bigint
1	nm0000135		7
2	nm0000408		7
3	nm0000447		7
4	nm0000556		7
5	nm0000607		7
6	nm0000625		7
7	nm0000711		7
8	nm0000757		7
9	nm0000770		7
10	nm0000790		7
11	nm0000844		7
12	nm0000864		7
13	nm0000868		7
14	nm0000873		7
15	nm0000892		7
16	nm0000911		7
17	nm0001052		7
18	nm0001126		7
19	nm0001138		7
20	nm0001147		7
21	nm0001205		7
22	nm0001219		7
23	nm0001339		7
24	nm0001407		7
25	nm0001535		7

For this query we took a movie titled as Angel Wolf, the no.of crew worked in this movie is 7.And the list of actors worked in 7 movies is printed.

THE END.