ASSIGNMENT-3
DBMS-II

GROUP-23

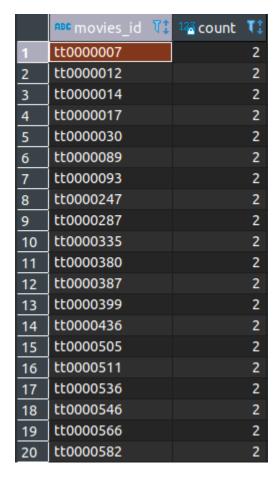|	
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We have written SQL code for the given queries for the database that we had made in the assignment-2.

We have taken certain assumptions for some of the queries due to reasons like unavailability of data. We have described those assumptions (if taken) and the results (screenshot of tables) in this report.

We have used DBeaver for visualizing and getting the screenshots of tables. For tables with many rows, we have shown the first 20 rows. For empty tables we have just mentioned "Empty Table"

1. **Write a query to find the list of movies that are directed by at least 2 directors.**
   Output:

	ABC movies_id	123 count
1	tt0000007	2
2	tt0000012	2
3	tt0000014	2
4	tt0000017	2
5	tt0000030	2
6	tt0000089	2
7	tt0000093	2
8	tt0000247	2
9	tt0000287	2
10	tt0000335	2
11	tt0000380	2
12	tt0000387	2
13	tt0000399	2
14	tt0000436	2
15	tt0000505	2
16	tt0000511	2
17	tt0000536	2
18	tt0000546	2
19	tt0000566	2
20	tt0000582	2

2. **Find all the actors that made more movies with Zack Snyder than any other director.**

   Output:

	ABC person_id	ABC person_name
1	nm1363271	Wayne Dalglish
2	nm1418292	Wesley Coller

3. **Find the movie that has won fewer than 2 awards.**
   Assumption: We assumed that we have a table named '
   'movie_awards' that consist of number of awards as 'awards'
   attribute and the movie_id.

Output: Empty table

4. **Find the pair of actor and movie director, provided that the movie done by them has a rating above 7 and movies done by the pair should be at most 2.**

Output:

	ABC person_name	ABC person_name
1	Robert Sobels	Giovanni Korporaal
2	Edward Earl King	John Watson
3	Parth Thakerar	Robin Lough
4	Jef Cassiers	Roland Verhavert
5	D.L. Walker	Aaron W. Peterson
6	Haris Fragoulis	Stergios Paschos
7	Iresh Zaker	Redoan Rony
8	George Ausmus	Josh Mullner
9	Sam Alexander	Robin Lough
10	João Cabeleira	Diogo Varela Silva
11	Diego Santos	Jose Mari Goenaga
12	Tinku Devangan	Karma Takapa
13	Dominique Whittaker	Dominique Whittaker
14	Peter Kent	Lincoln Thorne
15	Antonio de la Torre	Jose Mari Goenaga
16	Ivan Trojan	Jirí Strach
17	Philip Childs	Robin Lough
18	Ciarán Hinds	Robin Lough
19	Albert Martinez	Erik Matti
20	Tim McMullan	Robin Lough

5. **Find the name of the TV series which aired for the longest duration.**

Output:

	ABC orginal_title	123 air_time_years
1	Allen and Kendal	75

6. Find the name of the director who directed the 2nd shortest movie in the year 2020.

Output:

	ABC person_name
1	Julia Radochia
2	Greg Runnels
3	Gen Seto
4	Kipp Tribble
5	Joshua Wagner
6	Kahlil Pedizisai
7	Danil Lysenko
8	Fabrice Aragno
9	Maria Luiza Munhoz
10	Matthew Winters
11	Karsten Runquist
12	Jess Westberg
13	Janice Chun
14	Simon Price
15	Tobias Haccou
16	Carter Parsons
17	Tony Tran
18	Eric Felizardo
19	Alex Sultoon
20	Azucena Lozano

7. Print the adult movie and adult TV series with the lowest average rating.

Output:

	ABC tconst	ABC original_title
1	tt6342506	2 Girls 1 Finger

8. **Print the Top 5 directors based on their average rating of all the movies he/she has directed (**In case of equal print all**).**

   Assumption : If the top 5 directors have the same rating then all the 5 directors are given out.
   Output:

person_id	average_rating
1 nm0337306	10
2 nm0275439	10
3 nm0175805	10
4 nm0048216	10
5 nm0430043	10

9. **Print TV series produced by 2 or more production companies and same has been released in at least 3 different countries.**

   Assumption: Due to the unavailability of sufficient production companies data, we wrote the query assuming we have enough production companies.
   Output: Empty Table

10. **Print the name of the actors in the decreasing order of the year of their Oscar wins.**

    Assumption: Due to insufficient data we assumed a table named 'oscars' that has 'person_id', 'oscars_count','year_of_win' as the attributes respectively.
    Output: Empty table

11. You want to make a movie and you are searching for the best director. List the directors in descending order of their score based on their experience and average movie ratings. Note the score is defined as,

Score = 0.3*experience + 0.7*average movie ratings

where,

● experience = number of movies for which he/she worked as director or asst director.

● Average movie ratings = 0.8*average movie ratings(worked as director) + 0.2* average movie ratings(worked as asst-director).

Assumption: We did not have a role named 'Assistant director' in our data. So we assumed that we have such a role and wrote a query.

The 'coalesce()' function converts null values to '0' and calculates the 'score' as defined in the query.

Output:

#	person_name	pid1	score
1	Dave Fleischer	nm0281487	145.9420173913
2	D.W. Griffith	nm0000428	130.2163211137
3	James H. White	nm0924920	106.6576181303
4	Seymour Kneitel	nm0460667	98.2049925926
5	Friz Freleng	nm0293989	94.408421865
6	Chuck Jones	nm0005062	88.4552742268
7	Georges Méliès	nm0617588	86.0586929577
8	Stan Brakhage	nm0104132	85.6673957447
9	Sam Newfield	nm0627864	61.547619802
10	Robert McKimson	nm0571781	60.5246666667
11	Mannie Davis	nm0205074	60.2964242424
12	Joseph Barbera	nm0053484	58.1436378947
13	Jules White	nm0925028	56.6315027027
14	Jesús Franco	nm0001238	56.3360043243
15	Paul J. Smith	nm0006761	56.1257347826
16	Michael Curtiz	nm0002031	52.283045614
17	William K.L. Dickson	nm0005690	52.1019789474
18	Connie Rasinski	nm0711197	50.4190109091
19	Izzy Sparber	nm0816917	49.6061333333
20	William Beaudine	nm0064415	48.7001811321

12. **For each genre, print the top 5 movie names and its director name based on their earnings (box office collection - movie budget).**

   Assumption: Due to unavailability of box_office_collection data, we assumed such an attribute present in the movies table and wrote the query
   Output: Empty table

13. **Print actors who have worked in movies as well as TV series.**

   Output:

	ABC person_name
1	Johann Hallet
2	Dwayne Sample
3	Cristian Salguero
4	Isaac Akers
5	Anass Moumen
6	Alexandria Paige
7	Gaurav Paswala
8	Benjamin Lok
9	Sinead Grewcock
10	Patrisha Gibson
11	Josh Han
12	Louise Kerr
13	Hayden Spaeth
14	Alexander Artemov
15	George Exley
16	Rika Kinugawa
17	Tom Gronau
18	Gabby Cocco
19	Graham Wallace
20	Jonathan Page

14. Print the shortest TV episode for each year.
Output:

	ABC episode_id	123 start_year	123 runtime
1	tt11703486	1,931	15
2	tt13057518	1,931	15
3	tt11700974	1,931	15
4	tt11703466	1,931	15
5	tt11703476	1,931	15
6	tt11712168	1,932	15
7	tt13057534	1,933	15
8	tt6650942	1,934	8
9	tt11143288	1,935	17
10	tt4198558	1,936	10
11	tt4198606	1,937	5
12	tt14142028	1,938	16
13	tt0419430	1,939	15
14	tt14203544	1,940	7
15	tt14203546	1,941	7
16	tt14175272	1,941	7
17	tt12961302	1,942	11
18	tt12967498	1,943	9
19	tt12967392	1,943	9
20	tt12967408	1,943	9

15. **You want to suggest some good movies to your friends.
Genre wise print the top 3 rated movies.**
Output: First 20 entries

	ABC title_id	ABC genre	ABC avg_rating	123 rank
1	tt5016230	Action	9.9	1
2	tt2281097	Action	9.9	1
3	tt5591538	Action	9.9	1
4	tt2385239	Action	9.9	1
5	tt7868398	Action	9.9	1
6	tt13051742	Action	9.9	1
7	tt4964042	Action	9.9	1
8	tt1662665	Action	9.9	1
9	tt0134350	Adult	9.8	1
10	tt0143768	Adult	9.7	2
11	tt0144563	Adult	9.5	3
12	tt0151756	Adult	9.5	3
13	tt5319756	Adventure	9.9	1
14	tt10471404	Adventure	9.9	1
15	tt1198217	Adventure	9.8	3
16	tt8508460	Adventure	9.8	3
17	tt6377056	Adventure	9.8	3
18	tt3947564	Adventure	9.8	3
19	tt5091902	Adventure	9.8	3
20	tt3586564	Adventure	9.8	3

16. **Find the movies and TV series who have filmed in Switzerland. A TV series can be counted as filmed in a country if there exists at least one episode filmed in that country.**
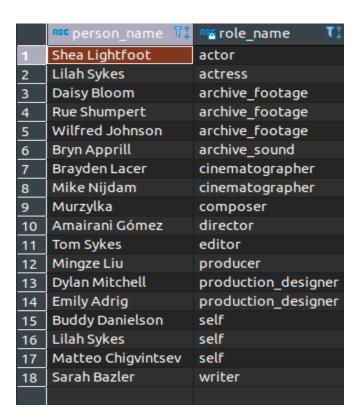
Assumption: Due to unavailability of location data, we assumed that we have 2 relations called 'movie_locations' and 'tvseries_locations' that consists of movie_id/tvseries_id and the 'location' of filming

Output: Empty Table

17. **List all movies who have A certificate in the same location in the year 1995.**

Assumption: Due to insufficient data we have assumed an attribute called 'certificate' in the table 'movie_release_lang'
Output: No output

18. **For each profession print the youngest one.**

Output:

	person_name	role_name
1	Shea Lightfoot	actor
2	Lilah Sykes	actress
3	Daisy Bloom	archive_footage
4	Rue Shumpert	archive_footage
5	Wilfred Johnson	archive_footage
6	Bryn Apprill	archive_sound
7	Brayden Lacer	cinematographer
8	Mike Nijdam	cinematographer
9	Murzylka	composer
10	Amairani Gómez	director
11	Tom Sykes	editor
12	Mingze Liu	producer
13	Dylan Mitchell	production_designer
14	Emily Adrig	production_designer
15	Buddy Danielson	self
16	Lilah Sykes	self
17	Matteo Chigvintsev	self
18	Sarah Bazler	writer

19. Print all the music technicians(soundtrack producers) who have worked for at least 5 movies.

Assumption: For music technicians, we have assumed the roles of 'composer' and 'archive_sound' which were available with us in our dataset.

Output:

	person_id	person_name
1	nm1216532	Dhruv Ghanekar
2	nm1218132	Amon Tobin
3	nm1218374	Kôsuke Yamashita
4	nm1219286	George Sarah
5	nm12196165	Cortney Standifer
6	nm1220207	Thoersi Argeswara
7	nm1220630	Dürbeck & Dohmen
8	nm1223216	Ajit Singh
9	nm1232266	Paul Englishby
10	nm1242001	Ashutosh Phatak
11	nm1245893	Rohan Stevenson
12	nm1249447	Lin Zhao
13	nm1251724	Chris Hou
14	nm1256762	Tay Chee Wei
15	nm1264510	Jamie Lokoff
16	nm1265981	Ali Helnwein
17	nm1275025	Daniel Cage
18	nm1284545	Mario Sévigny
19	nm1290959	Can Atilla
20	nm1291682	Alfons Conde

20. Print the actor's name who has worked in as many movies as the number of crew members in the movie titled: (Put any movie as you wish).

<u>Output:</u> We chose 'tt0000617' as the movie_id.

	person_id	num_movies	person_name
1	nm2550918	7	Rich Paul
2	nm2584146	7	Duncan Coe
3	nm2585483	7	Dave Lawson
4	nm2636108	7	Aidan Turner
5	nm2639020	7	Daniel Fanaberia
6	nm2640246	7	Jonny Caines
7	nm2640457	7	Stephen Simon
8	nm2667383	7	André Joseph
9	nm2671944	7	Cristián Carvajal
10	nm2674356	7	Amr Abed
11	nm2731266	7	Feng Ling
12	nm2731949	7	Jarrett Alexander
13	nm2732125	7	Daniel V. Graulau
14	nm2756670	7	Kenneth Miller
15	nm2800068	7	Andreas Uehlein
16	nm2806955	7	Steve Hudgins
17	nm2831773	7	Manish Paul
18	nm2850568	7	L.A. Williams
19	nm2853475	7	George Kopsidas
20	nm2858333	7	Justin Doescher