File: Lab9_dluo22.rtf

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Class: CS 325, January 2022

Lab: 88

Due data: Jan. 20, 2022

Exercise 1: Single-table query 1:Julia

MariaDB [dluo22]> SELECT * FROM imdb_actors WHERE first_name='Julia';

id	first_name	last_name	gender	film_count
572929 770247 784772 806043	Julia Julia	Carothers Hughes Roberts Schuler Sweeney	F F F F	1 1 1 1 1

4 rows in set (0.00 sec)

Exercise 2: Single-table query 2: 1995-2000

MariaDB [dluo22]> SELECT id,name FROM imdb_movies where year>= 1995
AND year<=2000;</pre>

id	name
18979 46169 109093 112290 147603 207992 210511 237431 238695 254943 306032 314965 333856	Apollo 13 Braveheart Fargo Fight Club Hollow Man Matrix, The Memento O Brother, Where Art Thou? Office Space Pi Snatch. Stir of Echoes Titanic

13 rows in set (0.01 sec)

Exercise 3: Single-table query 3: Fight Club

```
MariaDB [dluo22]> SELECT actor_id FROM imdb_roles WHERE
movie_id=112290;
+----+
| actor_id |
```

```
| 454061 |
| 469664 |
| 471342 |
| 510575 |
| 514278 |
| 553953 |
| 558289 |
| 558382 |
| 569014 |
| 572783 |
| 589158 |
| 606081 |
| 780070 |
| 793011 |
+-----+

63 rows in set (0.00 sec)
```

Exercise 4: Multi-table query 1: pi

MariaDB [dluo22]> Select role from imdb_movies join imdb_roles on imdb_movies.id = imdb_roles.movie_id where imdb_movies.name = 'pi';

```
| role
 Man Delivering Suitcase
 Brad
 Transit Cop
 Maximillian Cohen
 Kabbala Scholar
 Moustacheless Man
 Man Presenting Suitcase
 Limo Driver
 Kabbala Scholar
 Photographer
 Sol Robeson
 King Neptune
 Farroukh
 Rabbi Cohen
 Kabbala Scholar
 Kabbala Scholar
 Transit Cop
 Lenny Meyer
 Kabbala Scholar
 Jake
 Ephraim
 Jenny Robeson
 Mrs. Ovadia
| Marcy Dawson
 Jenna
```

28	rows	in	set	(0.00	sec)	•
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3	Jenna	's N	1om			

Exercise 5: Multi-table query 2: Pi Actor Name

MariaDB [dluo22]> Select first_name, last_name, role from

- -> imdb_actors a join imdb_roles r on a.id=r.actor_id
- -> join imdb_movies m on m.id = r.movie_id
- -> where m.name='pi';

+		L
first_name	last_name	role
Abraham	Aronofsky	Man Delivering Suitcase
Peter	Cheyenne	Brad
j Scott	Franklin	Transit Cop
j Sean	Gullette	Maximillian Cohen
Ari	Handel	Kabbala Scholar
Stanley	Herman	Moustacheless Man
j J.C.	Islander	Man Presenting Suitcase
Chris (IV)	Johnson	Limo Driver
Richard	Lifschutz	Kabbala Scholar
Clint	Mansell	Photographer
Mark	Margolis	Sol Robeson
Sal	Monte	King Neptune
Ajay	Naidu	Farroukh
Stephen	Pearlman	Rabbi Cohen
Oren	Sarch	Kabbala Scholar
Lloyd	Schwartz	Kabbala Scholar
Ray	Seiden	Transit Cop
Ben (II)	Shenkman	Lenny Meyer
David	Strahlberg	Kabbala Scholar
David	Tawil	Jake
Tom (I)	Tumminello	Ephraim
Lauren (I)	Fox	Jenny Robeson
Joanne	Gordon	Mrs. Ovadia
Pamela (II)	Hart	Marcy Dawson
Kristyn Mae-Anne	Lao	Jenna
Espher Lao	Nieves	Jenna's Mom
Pam	Shoaib	l David
Samia	Shoaib	Devi
+		t

28 rows in set (0.00 sec)

Exercise 6: Multi-table query 3: Kill Bill

MariaDB [dluo22]> Select first_name,last_name from imdb_actors a
 -> join imdb_roles r1 on r1.actor_id = a.id
 -> join imdb_movies m1 on m1.id = r1.movie_id
 -> join imdb_roles r2 on r2.actor_id = a.id
 -> join imdb_movies m2 on m2.id = r2.movie_id
 -> where m1.name = 'Kill Bill: Vol. 1'

David	+	last_name
+	Chia Hui Michael (I) Christopher Allen Michael (I) Stevo Vivica A. Daryl Lucy	Liu Madsen Nelson Parks Polyi Fox Hannah Liu

-> and m2.name = 'Kill Bill: Vol. 2';

Exercise 7: More queries

• Write a query that show the top 5 actors in imdb_small who have appeared in the most films, in descending order.

MariaDB [dluo22]> Select first_name,last_name,film_count from imdb_actors order by film_count DESC limit 5;

first_name	last_name	film_count
Kevin	Bacon	9
Steve	Buscemi	3
Michael (I)	Madsen	3
Bill	Paxton	3
Brad	Pitt	3

5 rows in set (0.00 sec)

• Write a query that shows the top 3 most popular genres of films in imdb_small, sorted in descending order. (Hint: There is a table movies_genres that contains the columns movie_id and genre that may be able to help)

MariaDB [dluo22]> select genre, count(*) as magnitude from
movies_genres join imdb_movies on movies_genres.movie_id =
imdb_movies.id group by genre order by magnitude DESC limit 3;

+		+	+
	enre	magnitude	•
•	 hriller	+ 17	·+ -
	штссег	1 1/	-1

```
| Drama | 17 |
| Crime | 12 |
+----+
3 rows in set (0.00 sec)
```

(Credits to https://stackoverflow.com/questions/7693613/select-most-common-value-from-a-field-in-mysql)

• Write a query that shows the name of the director who has directed the most horror films.

MariaDB [dluo22]> select d.first_name,d.last_name,count(*) from directors d join movies_directors md on d.id = md.director_id join imdb_movies m on m.id = md.movie_id join movies_genres mg on mg.movie_id = m.id where mg.genre = 'Horror' group by d.first_name,d.last_name order by count(*) DESC limit 1;

first_name		count(*)
Paul (I)	Verhoeven	1

1 row in set (0.00 sec)

Exercise 8: CSE 143 Grades

4 rows in set (0.01 sec)

Exercise 9: CSE 143 Grades and Names

MariaDB [dluo22]> Select s.name,grade from students s join grades g on s.id = g.student_id join courses c on c.id = g.course_id where c.name = 'Computer Science 143' AND g.grade <= 'B-';

++ name	grade	
Lisa Ralph	A+ B	† ₊

Exercise 10: All Grades

MariaDB [dluo22]> Select s.name,c.name,grade from students s join grades g on s.id = g.student_id join courses c on c.id = g.course_id where g.grade <= 'B-' order by s.name;

name name grade		L	
Lisa Computer Science 143 A+ Lisa Computer Science 190M A+ Milhouse Computer Science 142 B+	name	name	grade
	Lisa Lisa Milhouse	Computer Science 143 Computer Science 190M Computer Science 142	A+

5 rows in set (0.00 sec)

Exercise 11: Popular Classes

MariaDB [dluo22]> Select DISTINCT c.name from courses c join grades g on c.id = g.course_id join students s on s.id = g.student_id group by course_id having count(course_id) >= 2;

