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* NAME: Samuel Sovi
 * CLASS:CPSC 321
 * DATE: 12/9/22
 * HOMEWORK: HW 8
 * DESCRIPTION: PRACTING MORE COMPLICATED QUERIES
 -- TODO: Implement the queries for HW8 below. Include comments as
         appropriate.
-- Quesiton 1:
CREATE VIEW customer_rental as
    SELECT customer_id, first_name, last_name, rental_date, film_id, title FROM cpsc321.customer JOIN cpsc321.rental USING (customer_id) JOIN cpsc321.i
nventory USING(inventory_id) JOIN cpsc321.film USING (film_id) ORDER BY last_name ASC, first_name ASC, rental_date ASC;
-- Testing:
-- SELECT*
-- FROM customer_rental
-- LIMIT 10;
-- Question 2:
WITH film_update AS(
    (SELECT film_id, last_update, 'actor' as type FROM film_actor)
    UNION 1
    (SELECT_film_id, last_update, 'category' as type FROM film_category)
    UNION ALL
    (SELECT film id, last update, 'inventory' as type FROM inventory)
SELECT film_id, title, fu.last_update, type
FROM film_update fu JOIN film f USING(film_id) JOIN film_category USING(film_id)
 JOIN category c USING(category_id)
WHERE c.name = 'Action
ORDER BY title ASC, fu.last_update ASC;
-- Question 3:
SELECT film_id, title, rating, length,
    CASE
        WHEN length > 80 THEN 'feature'
        WHEN length > 50 THEN 'featurette'
        ELSE 'short'
    END AS type
FROM film;
-- Question 4:
SELECT film_id, title, rating, length,
    DENSE RANK() OVER (PARTITION BY RATING ORDER BY length ASC) rank
FROM film;
```

-- Question 5:

SAMUEL SOVI OUTPUTS FOR HW 8:

Question 1:

MariaDB [ssovi_DB]> source hw8.sql;					
customer_id	first_name	last_name	rental_date	film_id	title
505 505 505 505 505 505 505 505 505	RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL RAFAEL	ABNEY	2005-05-26 01:34:28 2005-05-28 19:14:09 2005-06-16 20:17:20 2005-06-17 03:36:02 <u>2005-06-19</u> 18:04:18 2005-06-20 19:41:28 2005-07-07 00:26:43 2005-07-08 02:22:45 2005-07-11 00:16:35 2005-07-11 17:23:33	757 687 624 515 902 172 245 179 369 956	SAGEBRUSH CLUELESS POCUS PULP NIGHTMARE CHILL LEGALLY SECRETARY TRADING PINOCCHIO CONEHEADS SMOOCHY DOUBLE WRATH CONQUERER NUTS GOODFELLAS SALUTE WANDA CHAMBER
†					

Question 2:

MariaDB [cpsc321]> source hw8.sql;				
film_id	title	last_update	type	
19 19 19 21 21 21 29 29	AMADEUS HOLY AMADEUS HOLY AMADEUS HOLY AMERICAN CIRCUS AMERICAN CIRCUS AMERICAN CIRCUS ANTITRUST TOMATOES ANTITRUST TOMATOES ANTITRUST TOMATOES	2006-02-15 05:05:03 2006-02-15 05:07:09 2006-02-15 05:09:17 2006-02-15 05:05:03 2006-02-15 05:07:09 2006-02-15 05:09:17 2006-02-15 05:05:03 2006-02-15 05:07:09 2006-02-15 05:07:09	actor category inventory actor category actor ac	
tt				

Question 3:

film_id	title	rating	length	type
 1	ACADEMY DINOSAUR	PG		feature
2	ACE GOLDFINGER	j G	48	short
3	ADAPTATION HOLES	NC-17	50	short
4	AFFAIR PREJUDICE	j G	117	feature
5	AFRICAN EGG	j G	130	feature
6	AGENT TRUMAN	PG	169	feature
7	AIRPLANE SIERRA	PG-13	62	featurette
8	AIRPORT POLLOCK	į R	54	featurette
9	ALABAMA DEVIL	PG-13	114	feature
10	ALADDIN CALENDAR	NC-17	63	featurette

Question 4:

MariaDB [cpsc321]> source hw8.sql;				
film_id	title	rating	length	rank
237	DIVORCE SHINING	G	 47	1
j 247	DOWNHILL ENOUGH	j G	47	1
575	MIDSUMMER GROUNDHOG	j G	48	2
2	ACE GOLDFINGER	j G	48	2
430	HOOK CHARIOTS	j G	49	3
83	BLUES INSTINCT	j G	50	4
292	EXCITEMENT EVE	j G	51	5
794	SIDE ARK	j G	52	6
542	LUST LOCK	j G	52	6
402	HARPER DYING	G	52	6

Question 5:

MariaDB [cpsc321]> source hw8.sql;				
film_id	title	rating	length	
· 237	DIVORCE SHINING	G	47	
247	DOWNHILL ENOUGH	G	47	
575	MIDSUMMER GROUNDHOG	G	48	
2	ACE GOLDFINGER	G	48	
430	HOOK CHARIOTS	G	49	
83	BLUES INSTINCT	G	50	
292	EXCITEMENT EVE	G	51	
469	IRON MOON	PG	46	
784	SHANGHAI TYCOON	PG	47	
869	SUSPECTS QUILLS	PG	47	
670	PELICAN COMFORTS	PG	48	
753	RUSH GOODFELLAS	PG	48	
410	HEAVEN FREEDOM	PG	48	
443	HURRICANE AFFAIR	PG	49	
524	LION UNCUT	PG	50	
607	MUPPET MILE	PG	50	
679	PILOT HOOSIERS	PG	50	
730	RIDGEMONT SUBMARINE	PG-13	46	
504	KWAI HOMEWARD	PG-13	46	
505	LABYRINTH LEAGUE	PG-13	46	
++				

20 rows in set (0.002 sec)