COMP3013 Tutorial01 Exercise Solution

2024 Fall

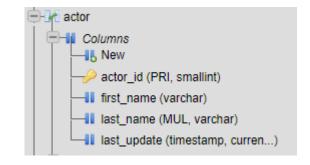
Exercises

- To write a good query, you need to pay attention to three things.
 - 1. Which table is used?
 - 2. What is the predicate?
 - 3. What are the attributes in the result?
- 1. Find the information of actors whose first name is Russell.
- 2. Find the information of actors whose first name is Russell and last name is Close.
- 3. Find the email of customers whose first name is Harry and active is 0.
- 4. Find the full name of the actor whose id is 99.
- 5. Find the title and special features of the films whose replacement cost is lower than 20 and rental rate is higher than 4.0.
- 6. Find the customer id of the customers who have made a payment on 2005-05-25 but the amount does not exceed 3.

sakila tables



1. Find the information of actors whose first name is Russell. SELECT * FROM ACTOR WHERE FIRST_NAME='RUSSELL'.



			actor_id	first_name	last_name	last_update
🥜 Edit	≩≟ Copy	Delete	112	RUSSELL	BACALL	2006-02-15 04:34:33
🧷 Edit	≩ å Copy	Delete	149	RUSSELL	TEMPLE	2006-02-15 04:34:33
🥖 Edit	≩ copy	Delete	183	RUSSELL	CLOSE	2006-02-15 04:34:33

2. Find the information of actors whose first name is Russell and last name is Close

SELECT * FROM ACTOR
WHERE
FIRST_NAME='RUSSELL'
AND
LAST_NAME='CLOSE'

actor_id	first_name	last_name	last_update
183	RUSSELL	CLOSE	2006-02-15 04:34:33



3. Find the email of customers whose first name is Harry and

active is 0.

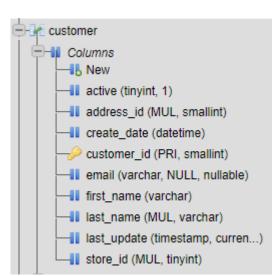
SELECT EMAIL FROM CUSTOMER

WHERE

FIRST NAME='HARRY'

AND

ACTIVE=0



EMAIL

HARRY.ARCE@sakilacustomer.org

4. Find the full name of the actor whose id is 99. SELECT FIRST_NAME, LAST_NAME

FROM ACTOR
WHERE ACTOR_ID=99





SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS 'FULL NAME'

FROM ACTOR
WHERE ACTOR_ID=99





5. Find the title and special features of the films whose replacement cost is lower than 20 and rental rate is higher than 4.0.

SELECT TITLE, SPECIAL FEATURES

FROM FILM

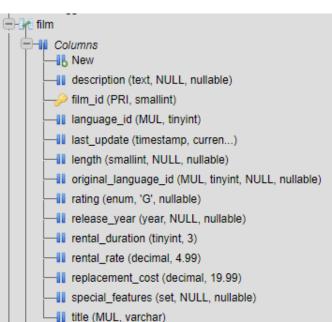
WHERE

REPLACEMENT COST<20

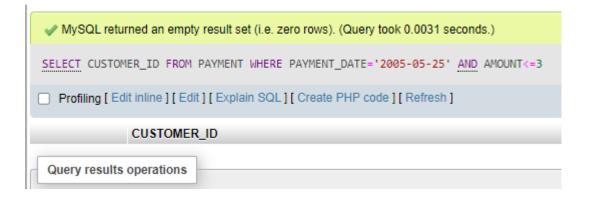
AND

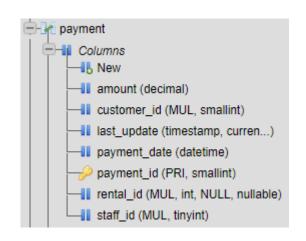
RENTAL RATE>4.0

TITLE	SPECIAL_FEATURES
ACE GOLDFINGER	Trailers, Deleted Scenes
AIRPORT POLLOCK	Trailers
AMERICAN CIRCUS	Commentaries, Behind the Scenes
ANTHEM LUKE	Deleted Scenes, Behind the Scenes
APACHE DIVINE	Commentaries, Deleted Scenes, Behind the Scenes
APOCALYPSE FLAMINGOS	Trailers, Commentaries
ATTRACTION NEWTON	Trailers,Behind the Scenes
AUTUMN CROW	${\it Trailers, Commentaries, Deleted \ Scenes, Behind \ the \ Sc}$
BIRCH ANTITRUST	Trailers, Commentaries, Deleted Scenes
BIRD INDEPENDENCE	Commentaries, Behind the Scenes
BIRDS PERDITION	Trailers,Behind the Scenes
BOILED DARES	Trailers, Commentaries
BOOGIE AMELIE	Commentaries, Behind the Scenes
BORN SPINAL	Trailers, Commentaries, Deleted Scenes
BOWFINGER GABLES	Trailers, Deleted Scenes
BREAKFAST GOLDFINGER	Trailers, Commentaries, Deleted Scenes
BRIGHT ENCOUNTERS	Trailers
CALIFORNIA BIRDS	Trailers,Commentaries,Deleted Scenes
CANDLES GRAPES	Trailers, Deleted Scenes
CARIBBEAN LIBERTY	Commentaries, Deleted Scenes
CASPER DRAGONFLY	Trailers
CASUALTIES ENCINO	Trailers
CAT CONEHEADS	Commentaries, Deleted Scenes
CENTER DINOSAUR	Deleted Scenes
CHAMBER ITALIAN	Trailers



SELECT CUSTOMER_ID
FROM PAYMENT
WHERE
PAYMENT_DATE='2005-05-25'
AND
AMOUNT<=3





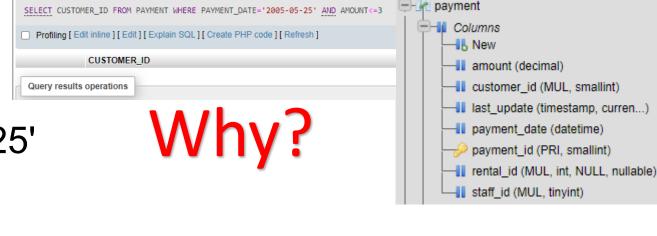


SELECT CUSTOMER_ID FROM PAYMENT WHERE

PAYMENT DATE='2005-05-25'

AND

AMOUNT<=3



MySQL returned an empty result set (i.e. zero rows). (Query took 0.0031 seconds.)

SELECT PAYMENT_DATE FROM PAYMENT

payment_date				
2005-05-25	11:30:37			
2005-05-28	10:35:23			
2005-06-15	00:54:12			
2005-06-15	18:02:53			
2005-06-15	21:08:46			
2005-06-16	15:18:57			
2005-06-18	08:41:48			

The data in payment_date includes not only the date but also the payment time, we need to use time range to select out the result

SELECT*

FROM PAYMENT

WHERE

PAYMENT DATE

BETWEEN '2005-05-25' AND '2005-05-26'

AND
AMOUNT<=3

payment_id	customer_id	staff_id	rental_id	amount	payment_date	last_update
1	1	1	76	2.99	2005-05-25 11:30:37	2006-02-15 22:12:30
175	7	2	117	0.99	2005-05-25 19:30:46	2006-02-15 22:12:30
468	18	1	50	2.99	2005-05-25 06:44:53	2006-02-15 22:12:32
490	19	2	18	0.99	2005-05-25 01:10:47	2006-02-15 22:12:33
1011	37	1	25	0.99	2005-05-25 03:21:20	2006-02-15 22:12:37
1203	44	1	29	0.99	2005-05-25 03:47:12	2006-02-15 22:12:39
1312	48	2	72	0.99	2005-05-25 10:52:13	2006-02-15 22:12:40
1329	49	2	96	1.99	2005-05-25 16:32:19	2006-02-15 22:12:40

payment
Columns
New

amount (decimal)

Customer id (MUL, smallint)

payment_date (datetime)
payment id (PRI, smallint)

staff id (MUL, tinyint)

last update (timestamp, curren...)

rental id (MUL, int, NULL, nullable)

SELECT CUSTOMER_ID

FROM PAYMENT

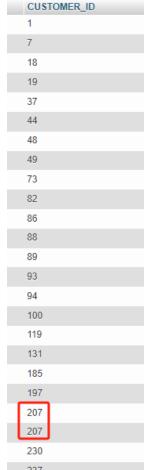
WHERE

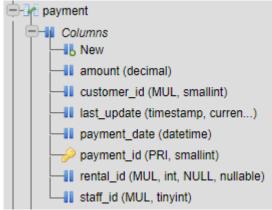
PAYMENT_DATE

BETWEEN '2005-05-25' AND '2005-05-26'

AND

AMOUNT<=3





SELECT **DISTINCT** CUSTOMER_ID

FROM PAYMENT

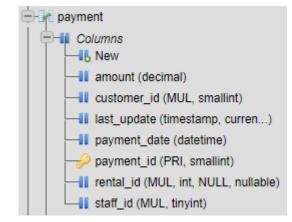
WHERE

PAYMENT DATE

BETWEEN '2005-05-25' AND '2005-05-26'

AND

AMOUNT<=3



Use DISTINCT to remove duplication