

1.



	erae97 <b>sakila.actor</b>
<b>Table Details</b>	
Engine:	<b>InnoDB</b>
Row format:	<b>Dynamic</b>
Column count:	<b>4</b>
Table rows:	<b>200</b>
AVG row length:	<b>81</b>
Data length:	<b>16.0 KiB</b>
Index length:	<b>0.0 bytes</b>
Max data length:	<b>0.0 bytes</b>
Data free:	<b>0.0 bytes</b>
Table size (estimate):	<b>16.0 KiB</b>
File format:	
Data path:	<b>C:\ProgramData\MySQL\MySQL Server 8.0\Data\sakila\actor.ibd</b>
Update time:	<b>2019-10-29 12:03:37</b>
Create time:	<b>2019-10-29 12:02:13</b>
Auto increment:	<b>201</b>
Table collation:	<b>utf8_general_ci</b>
Create options:	
Comment:	

2.

```

1  •  SELECT
2      CONCAT(city.city, ', ', country.country) store,
3      CONCAT(staff.first_name, ' ', staff.last_name) manager,
4      SUM(payment.amount) total_sales
5  FROM country
6  INNER JOIN city ON city.country_id = country.country_id
7  INNER JOIN address ON address.city_id = city.city_id
8  INNER JOIN store ON store.address_id = address.address_id
9  INNER JOIN staff ON staff.staff_id = store.manager_staff_id
10 INNER JOIN inventory ON inventory.store_id = store.store_id
11 INNER JOIN rental ON rental.inventory_id = inventory.inventory_id
12 INNER JOIN payment ON payment.staff_id = staff.staff_id AND payment.rental_id = rental.rental_id
13 WHERE MONTH(rental.rental_date) = 2
14

```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

store	manager	total_sales
Lethbridge, Canada	Mike Hillyer	238.13

3.

```

1 • SELECT
2   category.name, SUM(payment.amount) total_sales
3 FROM category
4 INNER JOIN film_category ON film_category.category_id = category.category_id
5 INNER JOIN film ON film_category.film_id = film.film_id
6 INNER JOIN inventory ON inventory.film_id = film.film_id
7 INNER JOIN rental ON rental.inventory_id = inventory.inventory_id
8 INNER JOIN payment ON payment.rental_id = rental.rental_id

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	name	total_sales		
	Action	67406.56		

5.

**Timing (as measured at client side):**

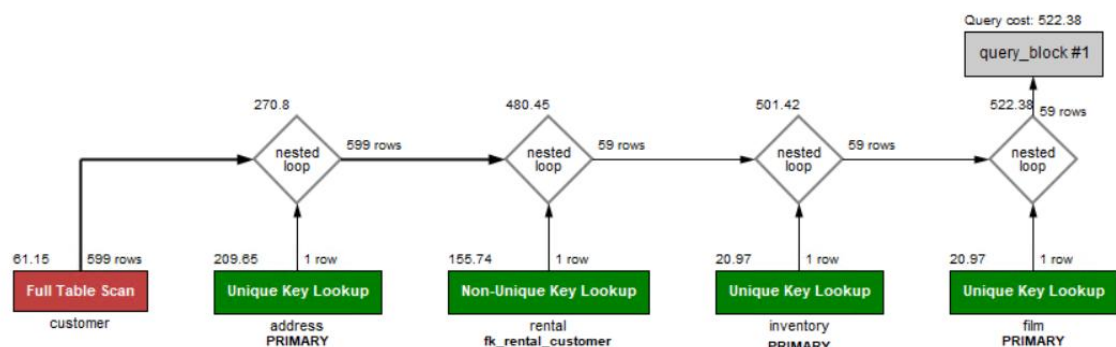
Execution time: 0:00:0.03100000

**Timing (as measured by the server):**

Execution time: 0:00:0.03682250

Table lock wait time: 0:00:0.00032100

Result Grid		Filter Rows:
	@@innodb_buffer_pool_size/1024/1024/1024	
	0.007812500000	



Indexes Used: return date is null and the current date is greater than the rental date + rental duration

Join Order: customer -> address -> rental -> inventory -> film

6.

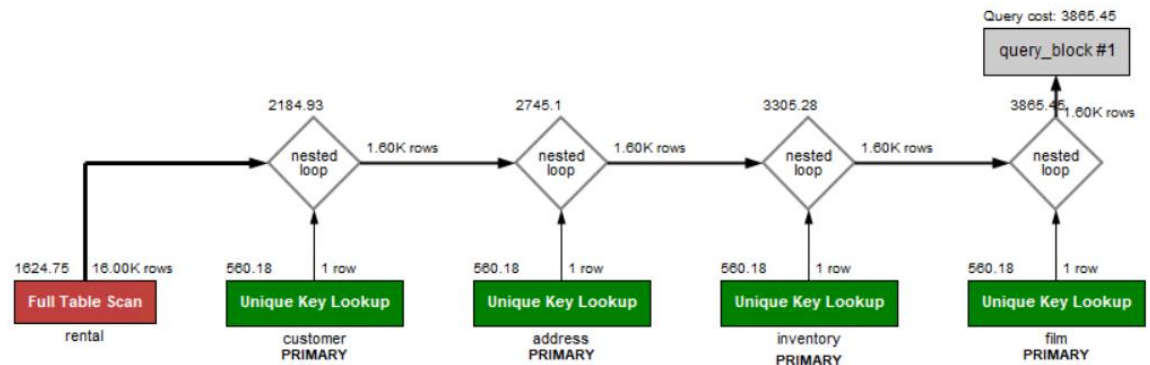
**Timing (as measured at client side):**

Execution time: 0:00:0.03200000

**Timing (as measured by the server):**

Execution time: 0:00:0.02348820

Table lock wait time: 0:00:0.00045800



7.

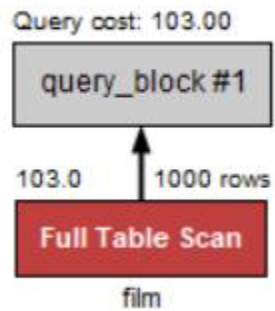
**Timing (as measured at client side):**

Execution time: 0:00:0.00000000

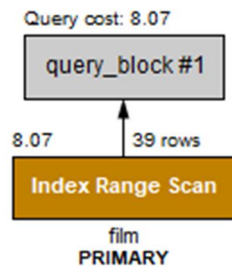
**Timing (as measured by the server):**

Execution time: 0:00:0.00182550

Table lock wait time: 0:00:0.00028100



SELECT \* FROM film WHERE film\_id < 40 AND title="APOLLO TEEN";



Yes the index that I created gets used

8.

**Timing (as measured at client side):**

Execution time: 0:00:0.00000000

**Timing (as measured by the server):**

Execution time: 0:00:0.00305380

Table lock wait time: 0:00:0.00028400