

- Analizar de qué es la base de datos y para qué problema se necesita.

La base de datos está diseñada para representar una tienda de alquiler de DVD.

La base de datos tiene por objetivo es proporcionar un entorno de pruebas, ya sea para desarrollar software o probar consultas sql y así poder realizar test con las posibilidades que brinda MySQL. La estructura de Sakila es compleja, posee 1000 registros y múltiples relaciones.

La base de datos Sakila también contiene ejemplos de vistas, procedimientos almacenados y triggers o disparadores.

Esta base de datos supone un tienda de alquiler de películas que puede tener sucursales y vendedores,

El desarrollo de la base de datos de muestra Sakila comenzó a principios de 2005. Los primeros diseños se basaron en base de datos utilizada en el documento técnico de Dell Tres enfoques para aplicaciones MySQL en Dell PowerEdge servidores

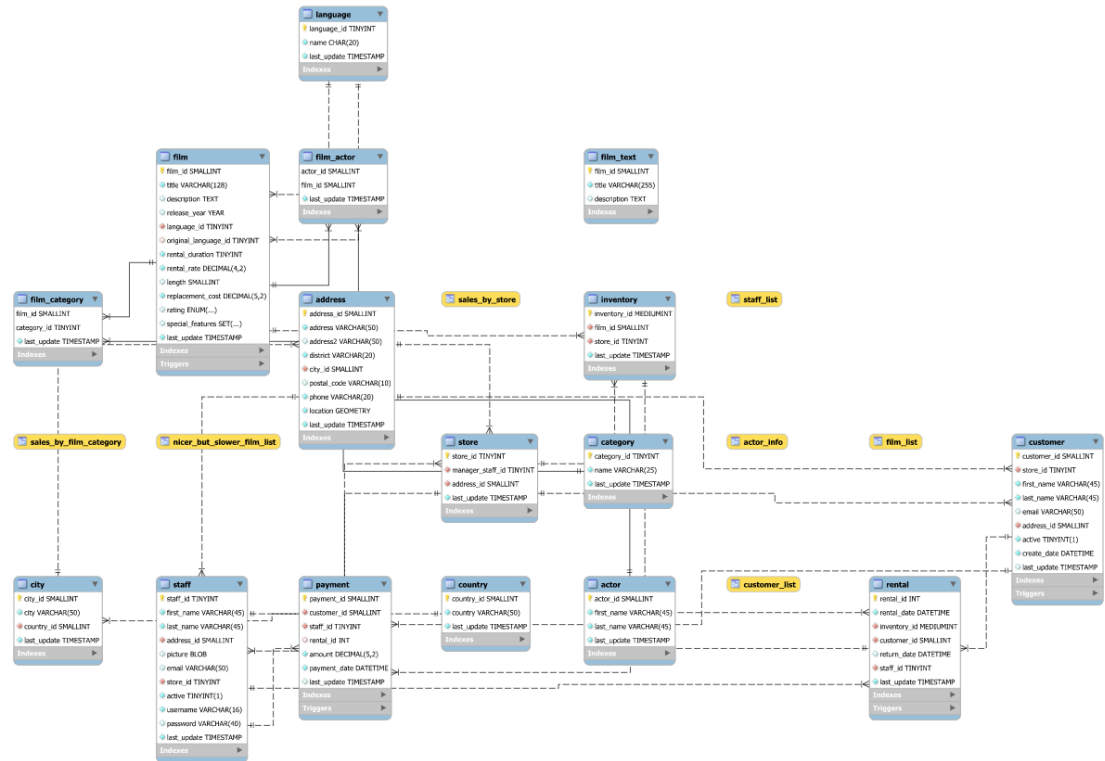
Donde la base de datos de muestra de Dell fue diseñada para representar una tienda de DVD en línea, la muestra de Sakila

El nombre del delfín de MySQL (el logo) es “Sakila”, que fue elegido por los fundadores de MySQL AB de una gran lista de nombres sugerida por los usuarios en el concurso “Name the Dolphin” (ponle nombre al delfín). El nombre ganador fue enviado por Ambrose Twebaze, un desarrollador de software Open Source de Swaziland, África. Según Ambrose, el nombre femenino de Sakila tiene sus raíces en SiSwate, el idioma local de Swaziland. Sakila también es el nombre de una ciudad en Arusha, Tanzania, cerca del país de origen de Ambrose, Uganda.

Origen de información

<https://dev.mysql.com/doc/index-other.html>

- Definir la estructura de la base de datos (SQL o NoSQL).



- Crear la base de datos y añadir registros muestra (MySQL o MongoDB).

Actor
 actor_info
 address
 category
 city
 country
 customer
 customer_list
 film
 film_actor

film_category
film_list
film_text
inventory
language
nicer_but_slower_film_list
payment
rental
sales_by_film_category
sales_by_store
staff
staff_list
store

- Escribir preguntas que se puedan contestar a partir de la base de datos que se definió ejemplo: ¿cuántas personas de tal edad hay en la base?
- Definir consultas (SQL o JSON) que permitan responder las preguntas.

El proceso supone que, para alquilar una película, primero deberemos confirmar que la película está disponible o en stock, y luego deberemos consultar si el cliente existe en la base de datos y asignaremos la película o DVD al cliente. También deberemos insertar la venta en la tabla de pagos. Dependiendo de las reglas de negocio, también puede ser necesario para comprobar si el cliente tiene un saldo pendiente.

1. Verificar si está registrado el cliente por el nombre

```
select customer.customer_id, customer.store_id,  
CONCAT(customer.first_name,' ',customer.last_name) as Cliente  
from customer  
where customer.first_name like '%Mary%';
```

```

35
36 • select customer_id, store_id, CONCAT(customer.first_name, ' ', customer.last_name) as Cliente
37   from customer
38  where first_name like '%Mary%';

```

Result Grid

customer_id	store_id	Cliente
1	1	MARY SMITH
204	1	ROSEMARY SCHMIDT

Output

Action Output

#	Time	Action	Message
1	10:31:37	select customer_id, store_id, CONCAT(customer.first_name, ' ', customer.last_name) as Cliente from customer where first_name like '%Mary%'	2 row(s) returned

2. Queremos saber que clientes alquilaron películas

```

select
rental.rental_id, customer.first_name, customer.last_name, rental.rental_date, rental.return_date
from rental
INNER JOIN customer
ON rental.customer_id=customer.customer_id

```

Result Grid

rental_id	first_name	last_name	rental_date	return_date
76	MARY	SMITH	2005-05-25 11:30:37	2005-06-03 12:00:37
573	MARY	SMITH	2005-05-28 10:35:23	2005-06-03 06:32:23
1185	MARY	SMITH	2005-06-15 00:54:12	2005-06-23 02:42:12
1422	MARY	SMITH	2005-06-15 18:02:53	2005-06-19 15:54:53
1476	MARY	SMITH	2005-06-15 21:08:46	2005-06-25 02:26:46
1725	MARY	SMITH	2005-06-16 15:18:57	2005-06-17 21:05:57
2308	MARY	SMITH	2005-06-18 08:41:48	2005-06-22 03:36:48
2363	MARY	SMITH	2005-06-18 13:33:59	2005-06-19 17:40:59
3284	MARY	SMITH	2005-06-21 06:24:45	2005-06-28 03:28:45
4526	MARY	SMITH	2005-07-08 03:17:05	2005-07-14 01:19:05
4611	MARY	SMITH	2005-07-08 07:33:56	2005-07-12 13:25:56
5244	MARY	SMITH	2005-07-09 13:24:07	2005-07-14 14:01:07
5326	MARY	SMITH	2005-07-09 16:38:01	2005-07-13 18:02:01
6163	MARY	SMITH	2005-07-11 10:13:46	2005-07-19 13:15:46
7273	MARY	SMITH	2005-07-27 11:31:22	2005-07-31 06:50:22
7841	MARY	SMITH	2005-07-28 09:04:45	2005-07-30 12:37:45
8033	MARY	SMITH	2005-07-28 16:18:23	2005-07-30 17:56:23

Output

Action Output

#	Time	Action	Message
1	11:00:39	select rental.rental_id, customer.first_name, customer.last_name, rental.rental_date, rental.return_date from rental INNER JOIN customer ON rental.customer_id=customer.customer_id	16044 row(s) returned

3. Tenemos dos tiendas o sucursales que generan una lista diaria de los alquileres atrasados para que los clientes pueden ser contactados y pedirles que devuelvan la película.

```

SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS

```

```
customer, address.phone, film.title, customer.email, rental.return_date,
payment.payment_date, payment.amount
FROM rental
INNER JOIN customer ON rental.customer_id = customer.customer_id
INNER JOIN address ON customer.address_id = address.address_id
INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
INNER JOIN film ON inventory.film_id = film.film_id
INNER JOIN payment ON payment.rental_id = rental.rental_id
WHERE rental.return_date IS NULL
AND rental_date + INTERVAL film.rental_duration DAY < CURRENT_DATE();
```

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48
49
50
51
52

```
SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS customer, address.phone, film.title, customer.email, rental.return_date, payment.payment_date, payment.amount
FROM rental
INNER JOIN customer ON rental.customer_id = customer.customer_id
INNER JOIN address ON customer.address_id = address.address_id
```

customer	phone	title	email	return_date	payment_date	amount
OLVERA, DWAYNE	62127829280	ACADEMY DINOSAUR	DWAYNE.OLVERA@sakilacustomer.org	NULL	2005-08-21 00:30:32	3.99
HUEY, BRANDON	99883471275	ACE GOLDFINGER	BRANDON.HUEY@sakilacustomer.org	NULL	2006-02-14 15:16:03	4.99
OWENS, CARMEN	272234298332	AFFAIR PREJUDICE	CARMEN.OWENS@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
HANNON, SETH	864392582257	AFRICAN EGG	SETH.HANNON@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
COLE, TRACY	371490777743	ALI FOREVER	TRACY.COLE@sakilacustomer.org	NULL	2006-02-14 15:16:03	4.99
DEAN, MARCIA	727785483194	ALONE TRIP	MARCIA.DEAN@sakilacustomer.org	NULL	2006-02-14 15:16:03	0.99
VINES, CECIL	879347453467	AMADEUS HOLY	CECIL.VINES@sakilacustomer.org	NULL	2006-02-14 15:16:03	0.99
TURNER, MARIE	177727722820	AMERICAN CIRCUS	MARIE.TURNER@sakilacustomer.org	NULL	2006-02-14 15:16:03	4.99
GILLILAND, JOE	53912826864	AMISTAD MIDSUMMER	JOE.GILLILAND@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
BAUGH, EDWARD	46568045367	ARMAGEDDON LOST	EDWARD.BAUGH@sakilacustomer.org	NULL	2006-02-14 15:16:03	0.99
FRANKLIN, BETH	470884141195	BAKED CLEOPATRA	BETH.FRANKLIN@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
WILLIAMSON, GINA	584316724815	BANG KWAI	GINA.WILLIAMSON@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
ELLINGTON, MELVIN	368284120423	BASIC EASY	MELVIN.ELLINGTON@sakilacustomer.org	NULL	2006-02-14 15:16:03	2.99
GREGORY, SONIA	195003555232	BERETS AGENT	SONIA.GREGORY@sakilacustomer.org	NULL	2006-02-14 15:16:03	5.98

Result 43 x

Output

Action Output

#	Time	Action	Message
1	12:04:47	SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS customer, address.phone, film.title, customer.email, rental.return_date, payment.payme...	183 row(s) returned

4. mostrar el nombre y apellido, así como la dirección, de cada miembro del personal

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60
61

```
select s.first_name, s.last_name, coalesce(a.address, 'No Address Found in Table') as 'address'
from staff s join address a on s.address_id = a.address_id
```

first_name	last_name	address
Mike	Hillyer	23 Workhaven Lane
Jon	Stephens	1411 Lillydale Drive

Result 45 x

Output

Action Output

#	Time	Action	Message
1	12:14:57	select s.first_name, s.last_name, coalesce(a.address, 'No Address Found in Table') as 'address' from staff s join address a on s.address_id = a.address_id	2 row(s) returned

5. Enumerar cada película y el número de actores que figuran en esa película
- ```
select f.title, count(fa.actor_id) as 'Number of Actors'
from
film as f
inner join
film_actor as fa
on f.film_id = fa.film_id
group by f.title;
```

```
67
68 • select f.title, count(fa.actor_id) as 'Number of Actors'
69 from
70 film as f
71 inner join
72 film_actor as fa
73 on f.film_id = fa.film_id
74 group by f.title;
75
```

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

|   | title            | Number of Actors |
|---|------------------|------------------|
| ▶ | ACADEMY DINOSAUR | 10               |
|   | ACE GOLDFINGER   | 4                |
|   | ADAPTATION HOLES | 5                |
|   | AFFAIR PREJUDICE | 5                |
|   | AFRICAN EGG      | 5                |
|   | AGENT TRUMAN     | 7                |
|   | AIRPLANE SIERRA  | 5                |
|   | AIRPORT POLLOCK  | 4                |
|   | ALABAMA DEVIL    | 9                |
|   | ALADDIN CALENDAR | 8                |
|   | ALAMO VIDEOTAPE  | 4                |
|   | ALASKA PHANTOM   | 7                |
|   | ALI FOREVER      | 5                |

Result 52 x

Output

Action Output

| # | Time     | Action                                                                                                                                         | Message             |
|---|----------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | 12:48:25 | select f.title, count(fa.actor_id) as 'Number of Actors' from film as f inner join film_actor as fa on f.film_id = fa.film_id group by f.title | 997 row(s) returned |

6. Queremos averiguar cuál es el cliente que más películas alquilo para ello escribimos la siguiente clausula

```
Select CONCAT(customer.first_name,' ',customer.last_name) as Cliente,
count(rental.customer_id) as Total from rental
inner join customer
on rental.customer_id=customer.customer_id
group by rental.customer_idorder by total desc;
```

```

78
79 • Select CONCAT(customer.first_name, ' ', customer.last_name) as Cliente, count(rental.customer_id) as Total from rental
80 inner join customer
81 on rental.customer_id=customer.customer_id
82 group by rental.customer_id
83 order by total desc;
84

```

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

| Cliente         | Total |
|-----------------|-------|
| ELEANOR HUNT    | 46    |
| KARL SEAL       | 45    |
| CLARA SHAW      | 42    |
| MARCIA DEAN     | 42    |
| TAMMY SANDERS   | 41    |
| SUE PETERS      | 40    |
| WESLEY BULL     | 40    |
| RHONDA KENNEDY  | 39    |
| MARION SNYDER   | 39    |
| TIM CARY        | 39    |
| ELIZABETH BROWN | 38    |
| DAISY BATES     | 38    |
| CURTIS IRBY     | 38    |
| TOMMY COLLAZO   | 38    |

Result 55 x

Output

Action Output

| # | Time     | Action                                                                                                                                                         | Message             |
|---|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | 13:10:44 | Select CONCAT(customer.first_name, ' ', customer.last_name) as Cliente, count(rental.customer_id) as Total from rental inner join customer on rental.custom... | 599 row(s) returned |

7. Liste a los clientes alfabéticamente por apellido: Cantidad total pagada

```

select c.first_name, c.last_name, sum(coalesce(p.amount, 0))
from customer as c
join
payment as p
on c.customer_id = p.customer_id
group by c.first_name, c.last_name
order by c.last_name asc;

```

```

85
86 • select c.first_name, c.last_name, sum(coalesce(p.amount, 0))
87 from customer as c
88 join
89 payment as p
90 on c.customer_id = p.customer_id
91 group by c.first_name, c.last_name
92 order by c.last_name asc;
93

```

Result Grid

| first_name | last_name | sum(coalesce(p.amount, 0)) |
|------------|-----------|----------------------------|
| RAFAEL     | ABNEY     | 97.79                      |
| NATHANIEL  | ADAM      | 133.72                     |
| KATHLEEN   | ADAMS     | 92.73                      |
| DIANA      | ALEXANDER | 105.73                     |
| GORDON     | ALLARD    | 160.68                     |
| SHIRLEY    | ALLEN     | 126.69                     |
| CHARLENE   | ALVAREZ   | 114.73                     |
| LISA       | ANDERSON  | 106.76                     |
| JOSE       | ANDREW    | 96.75                      |
| IDA        | ANDREWS   | 76.77                      |
| OSCAR      | AQUINO    | 99.80                      |
| HARRY      | ARCE      | 157.65                     |
| JORDAN     | ARCHULETA | 132.70                     |

Result 57 x

Output

Action Output

| # | Time     | Action                                                                                                                                                    | Message             |
|---|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | 13:15:26 | select c.first_name, c.last_name, sum(coalesce(p.amount, 0)) from customer as c join payment as p on c.customer_id = p.customer_id group by c.first_na... | 599 row(s) returned |

8. Muestra las películas alquiladas con mayor frecuencia en orden descendente.

```

select f.title, count(r.rental_id) as 'Number of Rentals'
from
film as f
inner join
inventory as i
on f.film_id = i.film_id
inner join
rental as r
on r.inventory_id = i.inventory_id
group by f.title
order by count(r.rental_id) desc;

```



```

93
94
95 • select f.title, count(r.rental_id) as 'Number of Rentals'
96 from
97 film as f
98 inner join
99 inventory as i
100 on f.film_id = i.film_id
101 inner join
102 rental as r
103 on r.inventory_id = i.inventory_id
104 group by f.title
105 order by count(r.rental_id) desc;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [1A](#)

| title               | Number of Rentals |
|---------------------|-------------------|
| BUCKET BROTHERHOOD  | 34                |
| ROCKETEER MOTHER    | 33                |
| FORWARD TEMPLE      | 32                |
| GRIT CLOCKWORK      | 32                |
| JUGGLER HARDLY      | 32                |
| RIDGEMONT SUBMARINE | 32                |
| SCALAWAG DUCK       | 32                |
| APACHE DIVINE       | 31                |
| GOODFELLAS SALUTE   | 31                |
| HOBBIT ALIEN        | 31                |
| NETWORK PEAK        | 31                |
| ROBBERS JOON        | 31                |
| RUSH GOODFELLAS     | 31                |

Result 58 x

Output

Action Output

| # | Time     | Action                                                                                                                                                                         | Message             |
|---|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | 13:17:19 | select f.title, count(r.rental_id) as 'Number of Rentals' from film as f inner join inventory as i on f.film_id = i.film_id inner join rental as r on r.inventory_id = i.in... | 958 row(s) returned |

9. .Actores que tengan una w en el nombre o en el apellido

```

SELECT * FROM sakila.actor
where first_name like '%w%' or last_name like '%w%';

```

|   | actor_id | first_name | last_name | last_update         |
|---|----------|------------|-----------|---------------------|
| ▶ | 2        | NICK       | WAHLBERG  | 2006-02-15 04:34:33 |
|   | 8        | MATTHEW    | JOHANSSON | 2006-02-15 04:34:33 |
|   | 9        | JOE        | SWANK     | 2006-02-15 04:34:33 |
|   | 13       | UMA        | WOOD      | 2006-02-15 04:34:33 |
|   | 19       | BOB        | FAWCETT   | 2006-02-15 04:34:33 |
|   | 21       | KIRSTEN    | PALTROW   | 2006-02-15 04:34:33 |
|   | 26       | RIP        | CRAWFORD  | 2006-02-15 04:34:33 |
|   | 28       | WOODY      | HOFFMAN   | 2006-02-15 04:34:33 |
|   | 29       | ALEC       | WAYNE     | 2006-02-15 04:34:33 |
|   | 48       | FRANCES    | DAY-LEWIS | 2006-02-15 04:34:33 |
|   | 63       | CAMERON    | WRAY      | 2006-02-15 04:34:33 |
|   | 68       | RIP        | WINSLET   | 2006-02-15 04:34:33 |
|   | 69       | KENNETH    | PALTROW   | 2006-02-15 04:34:33 |
|   | 72       | SEAN       | WILLIAMS  | 2006-02-15 04:34:33 |
|   | 82       | WOODY      | JOLIE     | 2006-02-15 04:34:33 |
|   | 83       | BEN        | WILLIS    | 2006-02-15 04:34:33 |
|   | 85       | MINNIE     | ZELLWEGER | 2006-02-15 04:34:33 |
|   | 95       | DARYL      | WAHLBERG  | 2006-02-15 04:34:33 |
|   | 96       | GENE       | WILLIS    | 2006-02-15 04:34:33 |
|   | 97       | MEG        | HAWKE     | 2006-02-15 04:34:33 |
|   | 102      | WALTER     | TORN      | 2006-02-15 04:34:33 |
|   | 103      | MATTHEW    | LEIGH     | 2006-02-15 04:34:33 |

10. Direcciones de Texas que tengan '866' en el número de teléfono

```
SELECT * FROM sakila.address
where district='california' and phone like '%866%';
```

|   | address_id | address          | address2 | district   | city_id | postal_code | phone        | location | last_update         |
|---|------------|------------------|----------|------------|---------|-------------|--------------|----------|---------------------|
| ▶ | 6          | 1121 Loja Avenue |          | California | 449     | 17886       | 838635286649 | BLOB     | 2014-09-25 22:34:01 |
| * | NULL       | NULL             | NULL     | NULL       | NULL    | NULL        | NULL         | NULL     | NULL                |

11. Películas en cuya descripción describa Robots o autos que duren más de 200 minutos

```
SELECT * FROM sakila.film
where (description like '%robot%' or description like '%car%')
and length>200;
```

|   | film_id | title               | description                                        | release_year | language_id | original_language_id | rental_duration | rental_rate |
|---|---------|---------------------|----------------------------------------------------|--------------|-------------|----------------------|-----------------|-------------|
| ▶ | 2       | ACE GOLDFINGER      | A Astounding Epistle of a Database Administrat...  | 2006         | 1           | NULL                 | 3               | 4.99        |
|   | 3       | ADAPTATION HOLES    | A Astounding Reflection of a Lumberjack And a ...  | 2006         | 1           | NULL                 | 7               | 2.99        |
|   | 6       | AGENT TRUMAN        | A Intrepid Panorama of a Robot And a Boy who...    | 2006         | 1           | NULL                 | 3               | 2.99        |
|   | 16      | ALLEY EVOLUTION     | A Fast-Paced Drama of a Robot And a Compose...     | 2006         | 1           | NULL                 | 6               | 2.99        |
|   | 25      | ANGELS LIFE         | A Thoughtful Display of a Woman And a Astron...    | 2006         | 1           | NULL                 | 3               | 2.99        |
|   | 42      | ARTIST COLDBLOODED  | A Stunning Reflection of a Robot And a Moose ...   | 2006         | 1           | NULL                 | 5               | 2.99        |
|   | 48      | BACKLASH UNDEFEATED | A Stunning Character Study of a Mad Scientist ...  | 2006         | 1           | NULL                 | 3               | 4.99        |
|   | 54      | BANGER PINOCCHIO    | A Awe-Inspiring Drama of a Car And a Pastry C...   | 2006         | 1           | NULL                 | 5               | 0.99        |
|   | 61      | BEAUTY GREASE       | A Fast-Paced Display of a Composer And a Moo...    | 2006         | 1           | NULL                 | 5               | 4.99        |
|   | 63      | BEDAZZLED MARRIED   | A Astounding Character Study of a Madman An...     | 2006         | 1           | NULL                 | 6               | 0.99        |
|   | 75      | BIRD INDEPENDENCE   | A Thrilling Documentary of a Car And a Student ... | 2006         | 1           | NULL                 | 6               | 4.99        |
|   | 81      | BLINDNESS GUN       | A Touching Drama of a Robot And a Dentist wh...    | 2006         | 1           | NULL                 | 6               | 4.99        |
|   | 85      | BONNIE HOLOCAUST    | A Fast-Paced Story of a Crocodile And a Robot ...  | 2006         | 1           | NULL                 | 4               | 0.99        |
|   | 97      | BRIDE INTRIGUE      | A Epic Tale of a Robot And a Monkey who must ...   | 2006         | 1           | NULL                 | 7               | 0.99        |
|   | 111     | CADDYSHACK JEDI     | A Awe-Inspiring Epistle of a Woman And a Mad...    | 2006         | 1           | NULL                 | 3               | 0.99        |
|   | 113     | CALIFORNIA BIRDS    | A Thrilling Yarn of a Database Administrator An... | 2006         | 1           | NULL                 | 4               | 4.99        |
|   | 115     | CAMPUS REMEMBER     | A Astounding Drama of a Crocodile And a Mad ...    | 2006         | 1           | NULL                 | 5               | 2.99        |
|   | 119     | CAPER MOTIONS       | A Fateful Saga of a Moose And a Car who must ...   | 2006         | 1           | NULL                 | 6               | 0.99        |
|   | 124     | CASPER DRAGONFLY    | A Intrepid Documentary of a Boat And a Crocod...   | 2006         | 1           | NULL                 | 3               | 4.99        |
|   | 132     | CHAINSAW UPTOWN     | A Beautiful Documentary of a Boy And a Robot ...   | 2006         | 1           | NULL                 | 6               | 0.99        |
|   | 138     | CHARIOTS CONSPIRACY | A Unbelievable Epistle of a Robot And a Husba...   | 2006         | 1           | NULL                 | 5               | 2.99        |

## 12. Películas que duren entre 80 y 100 minutos o entre 20 y 40 minutos

SELECT \* FROM sakila.film

where length between 80 and 100 or length between 20 and 40;

Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:

|   | film_id | title                | description                                                               | release_year | language_id | original_language_id | rental_c |
|---|---------|----------------------|---------------------------------------------------------------------------|--------------|-------------|----------------------|----------|
|   | 1       | ACADEMY DINOSAUR     | A Epic Drama of a Feminist And a Mad Scientist who must Battle a Tea...   | 2006         | 1           | NULL                 | 6        |
|   | 14      | ALICE FANTASIA       | A Emotional Drama of a A Shark And a Database Administrator who m...      | 2006         | 1           | NULL                 | 6        |
|   | 17      | ALONE TRIP           | A Fast-Paced Character Study of a Composer And a Dog who must O...        | 2006         | 1           | NULL                 | 3        |
|   | 22      | AMISTAD MIDSUMMER    | A Emotional Character Study of a Dentist And a Crocodile who must M...    | 2006         | 1           | NULL                 | 6        |
|   | 23      | ANACONDA CONFESSIONS | A Lacklustre Display of a Dentist And a Dentist who must Fight a Girl ... | 2006         | 1           | NULL                 | 3        |
|   | 26      | ANNIE IDENTITY       | A Amazing Panorama of a Pastry Chef And a Boat who must Escape a...       | 2006         | 1           | NULL                 | 3        |
|   | 28      | ANTHEM LUKE          | A Touching Panorama of a Waitress And a Woman who must Outrace ...        | 2006         | 1           | NULL                 | 5        |
|   | 30      | ANYTHING SAVANNAH    | A Epic Story of a Pastry Chef And a Woman who must Chase a Femini...      | 2006         | 1           | NULL                 | 4        |
|   | 31      | APACHE DIVINE        | A Awe-Inspiring Reflection of a Pastry Chef And a Teacher who must ...    | 2006         | 1           | NULL                 | 5        |
| ▶ | 39      | ARMAGEDDON LOST      | A Fast-Paced Tale of a Boat And a Teacher who must Succumb a Com...       | 2006         | 1           | NULL                 | 5        |
|   | 45      | ATTRACTION NEWTON    | A Astounding Panorama of a Composer And a Frisbee who must Reac...        | 2006         | 1           | NULL                 | 5        |
|   | 53      | BANG KWAI            | A Epic Drama of a Madman And a Cat who must Face a A Shark in An ...      | 2006         | 1           | NULL                 | 5        |
|   | 57      | BASIC EASY           | A Stunning Epistle of a Man And a Husband who must Reach a Mad Sc...      | 2006         | 1           | NULL                 | 4        |
|   | 60      | BEAST HUNCHBACK      | A Awe-Inspiring Epistle of a Student And a Squirrel who must Defeat ...   | 2006         | 1           | NULL                 | 3        |
|   | 65      | BEHAVIOR RUNAWAY     | A Unbelievable Drama of a Student And a Husband who must Outrac...        | 2006         | 1           | NULL                 | 3        |
|   | 69      | BEVERLY OUTLAW       | A Fanciful Documentary of a Womanizer And a Boat who must Defeat...       | 2006         | 1           | NULL                 | 3        |
|   | 71      | BILKO ANONYMOUS      | A Emotional Reflection of a Teacher And a Man who must Meet a Cat i...    | 2006         | 1           | NULL                 | 3        |
|   | 72      | BILL OTHERS          | A Stunning Saga of a Mad Scientist And a Forensic Psychologist who ...    | 2006         | 1           | NULL                 | 6        |
|   | 78      | BLACKOUT PRIVATE     | A Intrepid Yarn of a Pastry Chef And a Mad Scientist who must Challe...   | 2006         | 1           | NULL                 | 7        |
|   | 91      | BOUND CHEAPER        | A Thrilling Panorama of a Database Administrator And a Astronaut wh...    | 2006         | 1           | NULL                 | 5        |

film 15
Apply

Output

Action Output

| #     | Time     | Action                    | Message                                       | Duration / Fe                        |
|-------|----------|---------------------------|-----------------------------------------------|--------------------------------------|
| ✓ 218 | 09:30:47 | SELECT * FROM sakila.film | where (description like '%robo...             | 134 row(s) returned<br>0.203 sec / ( |
| ✓ 219 | 09:34:27 | SELECT * FROM sakila.film | where length between 60 and 120 or length ... | 515 row(s) returned<br>0.203 sec / ( |
| ✓ 220 | 09:34:29 | SELECT * FROM sakila.film | where length between 60 and 120 or length ... | 515 row(s) returned<br>0.187 sec / ( |
| ✓ 221 | 09:37:12 | SELECT * FROM sakila.film | where length between 80 and 100 or length ... | 147 row(s) returned<br>0.204 sec / ( |

## 13. Películas que cuesten 0.50, 2.99 y tengan un rating 'g' o 'r' y que hablen de héroes.}

```
SELECT * FROM sakila.film;
where description like '%heroes%'
and rental_rate in (0.50,2.99)
and rating in ('R','G');
```

14. Direcciones de Alberta o de Mexico o que su código postal acabe en 6 o que teléfono acabe en 6

```
SELECT * FROM sakila.address
where district='Alberta' or district='Mexico'
or postal_code like '%6' or phone like '%6'
```

19  
20 • `SELECT * FROM sakila.address`  
21 `where district='Alberta' or district='Mexico'`  
22 `or postal_code like '%6' or phone like '%6'`

Result Grid

| address_id | address                               | address2 | district         | city_id | postal_code | phone        | location | last_update         |
|------------|---------------------------------------|----------|------------------|---------|-------------|--------------|----------|---------------------|
| 1          | 47 MySakila Drive                     | NULL     | Alberta          | 300     |             |              | BL00     | 2014-09-25 22:30:27 |
| 3          | 23 Workhaven Lane                     | NULL     | Alberta          | 300     |             | 14033335568  | BL00     | 2014-09-25 22:30:27 |
| 6          | 1121 Loja Avenue                      |          | California       | 449     | 1786        | 838635286649 | BL00     | 2014-09-25 22:34:01 |
| 11         | 900 Santiago de Compostela Parkway    |          | Central Serbia   | 280     | 93896       | 716571220373 | BL00     | 2014-09-25 22:34:11 |
| 18         | 770 Bydgoszcz Avenue                  |          | California       | 120     | 16266       | 517338314235 | BL00     | 2014-09-25 22:33:47 |
| 21         | 270 Toulon Boulevard                  |          | Kalmykia         | 156     | 81766       | 407752414682 | BL00     | 2014-09-25 22:32:48 |
| 27         | 1780 Hino Boulevard                   |          | Liepaja          | 303     | 7716        | 902731229323 | BL00     | 2014-09-25 22:31:58 |
| 29         | 934 San Felipe de Puerto Plata Street |          | Sind             | 472     | 99780       | 196495945706 | BL00     | 2014-09-25 22:32:31 |
| 50         | 46 Pjatigorsk Lane                    |          | Moscow (City)    | 343     | 23616       | 262076994845 | BL00     | 2014-09-25 22:32:55 |
| 52         | 909 Garland Manor                     |          | Tatarstan        | 367     | 69367       | 705800322606 | BL00     | 2014-09-25 22:32:55 |
| 56         | 939 Probolingo Loop                   |          | Galicia          | 1       | 4166        | 680428310138 | BL00     | 2014-09-25 22:33:08 |
| 62         | 1114 Liepaja Street                   |          | Sarawak          | 282     | 69226       | 212869228936 | BL00     | 2014-09-25 22:32:00 |
| 74         | 1124 Buenaventura Drive               |          | Mekka            | 13      | 6856        | 407733804223 | BL00     | 2014-09-25 22:32:59 |
| 75         | 492 Cam Ranh Street                   |          | Eastern Visayas  | 61      | 50805       | 565018274456 | BL00     | 2014-09-25 22:32:34 |
| 76         | 89 Allappuzha (Alleppey) Manor        |          | National Capi... | 517     | 75444       | 255800440636 | BL00     | 2014-09-25 22:32:39 |
| 77         | 1947 Poos de Caldas Boulevard         |          | Chiayi           | 114     | 60951       | 427454485876 | BL00     | 2014-09-25 22:33:14 |
| 84         | 1888 Kabul Drive                      |          | Oyo & Osun       | 217     | 20936       | 701457319790 | BL00     | 2014-09-25 22:32:24 |
| 86         | 927 Baha Blanca Parkway               |          | Krim             | 479     | 9495        | 821972242086 | BL00     | 2014-09-25 22:33:33 |
| 95         | 1370 Le Mans Avenue                   |          | Brunei and M...  | 53      | 52163       | 345679835036 | BL00     | 2014-09-25 22:30:23 |
| 101        | 1599 Plock Drive                      |          | Tete             | 534     | 71986       | 817248913162 | BL00     | 2014-09-25 22:32:18 |
| 112        | 1002 Ahmadnagar Manor                 |          | Mxico            | 213     | 93026       | 371490777743 | BL00     | 2014-09-25 22:32:07 |

address 26 x

Output

Action Output

| # | Time     | Action                                                                         | Message            |
|---|----------|--------------------------------------------------------------------------------|--------------------|
| 1 | 10:10:05 | SELECT * FROM sakila.address where district='Alberta' or district='Mexico' ... | 99 row(s) returned |

## 15. Encuentra DVD atrasados

Muchas tiendas de DVD producen una lista diaria de alquileres atrasados para que los clientes puedan ser contactados y se les solicite devolver sus DVD atrasados.

Para crear una lista de este tipo, busque películas en la tabla de alquiler con una fecha de devolución NULA y donde el alquiler la fecha es más antigua que la duración del alquiler especificada en la tabla de películas. Si es así, la película está atrasada y debemos producir el nombre de la película junto con el nombre del cliente y el número de teléfono

```
SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS customer, address.phone,
film.title, customer.email, rental.return_date, payment.payment_date, payment.amount
FROM rental
INNER JOIN customer ON rental.customer_id = customer.customer_id
INNER JOIN address ON customer.address_id = address.address_id
INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
INNER JOIN film ON inventory.film_id = film.film_id
INNER JOIN payment ON payment.rental_id = rental.rental_id
WHERE rental.return_date IS NULL
AND rental_date + INTERVAL film.rental_duration DAY < CURRENT_DATE();
```

```
118
119 SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS customer, address.phone, film.title, customer.email, rental.return_date, payment.payment_date, payment.amount
120 FROM rental
121 INNER JOIN customer ON rental.customer_id = customer.customer_id
122 INNER JOIN address ON customer.address_id = address.address_id
123 INNER JOIN inventory ON rental.inventory_id = inventory.inventory_id
124 INNER JOIN film ON inventory.film_id = film.film_id
125 INNER JOIN payment ON payment.rental_id = rental.rental_id
126 WHERE rental.return_date IS NULL
127 AND rental_date + INTERVAL film.rental_duration DAY < CURRENT_DATE();
128
```

| Result Grid                                              |              |                   |                                     |             |                     |        |  |
|----------------------------------------------------------|--------------|-------------------|-------------------------------------|-------------|---------------------|--------|--|
| Filter Rows: [ ]   Export: [ ]   Wrap Cell Contents: [ ] |              |                   |                                     |             |                     |        |  |
| customer                                                 | phone        | title             | email                               | return_date | payment_date        | amount |  |
| OLVERA, DWAYNE                                           | 62127829280  | ACADEMY DINOSAUR  | DWAYNE.OLVERA@sakilacustomer.org    | NULL        | 2005-08-21 00:30:32 | 3.99   |  |
| HUEY, BRANDON                                            | 99883471275  | ACE GOLDFINGER    | BRANDON.HUEY@sakilacustomer.org     | NULL        | 2006-02-14 15:16:03 | 4.99   |  |
| OWENS, CARMEN                                            | 27223429832  | AFFAIR PREJUDICE  | CARMEN.OWENS@sakilacustomer.org     | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| HANNON, SETH                                             | 864392582257 | AFRICAN EGG       | SETH.HANNON@sakilacustomer.org      | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| COLE, TRACY                                              | 37149077743  | ALI FOREVER       | TRACY.COLE@sakilacustomer.org       | NULL        | 2006-02-14 15:16:03 | 4.99   |  |
| DEAN, MARCIA                                             | 727785483194 | ALONE TRIP        | MARCIA.DEAN@sakilacustomer.org      | NULL        | 2006-02-14 15:16:03 | 0.99   |  |
| VINES, CECIL                                             | 879347453467 | AMADEUS HOLY      | CECIL.VINES@sakilacustomer.org      | NULL        | 2006-02-14 15:16:03 | 0.99   |  |
| TURNER, MARIE                                            | 177727722820 | AMERICAN CIRCUS   | MARIE.TURNER@sakilacustomer.org     | NULL        | 2006-02-14 15:16:03 | 4.99   |  |
| GILLILAND, JOE                                           | 53912826864  | AMISTAD MIDSUMMER | JOE.GILLILAND@sakilacustomer.org    | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| BAUGH, EDWARD                                            | 46568045367  | ARMAGEDDON LOST   | EDWARD.BAUGH@sakilacustomer.org     | NULL        | 2006-02-14 15:16:03 | 0.99   |  |
| FRANKLIN, BETH                                           | 470884141195 | BAKED CLEOPATRA   | BETH.FRANKLIN@sakilacustomer.org    | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| WILLIAMSON, GINA                                         | 584316724815 | BANG KWAI         | GINA.WILLIAMSON@sakilacustomer.org  | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| ELLINGTON, MELVIN                                        | 368284120423 | BASIC EASY        | MELVIN.ELLINGTON@sakilacustomer.org | NULL        | 2006-02-14 15:16:03 | 2.99   |  |
| GREGORY, SONIA                                           | 19500355232  | BERETS AGENT      | SONIA.GREGORY@sakilacustomer.org    | NULL        | 2006-02-14 15:16:03 | 5.98   |  |

Result 60 x

Output:

Action Output

| # | Time     | Action                                                                                                                                                                       | Message             |
|---|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 1 | 13:26:28 | SELECT CONCAT(customer.last_name, ' ', customer.first_name) AS customer, address.phone, film.title, customer.email, rental.return_date, payment.payment_date, payment.amount | 183 row(s) returned |