

Lesson 2 Hands-On

```

1 # Write a query to find the first and last name, customer ID and rental ID for customers who have rented a film.
2 select first_name, last_name, customer_id, rental_id from sakila.customer
3 join sakila.rental using(customer_id);
4
5 # Write a query that finds all films with actors that have an actor_id 5.
6 select * from sakila.film
7 join sakila.film_actor using(film_id)
8 where actor_id = 5;
9
10 # Write a query that lists out all information of every film along with the name of the language for each film, even if a language doesn't exist for it.

```

Result Grid

first_name	last_name	customer_id	rental_id
MARY	SMITH	1	26
MARY	SMITH	1	523
MARY	SMITH	1	1385
MARY	SMITH	1	1432
MARY	SMITH	1	1476
MARY	SMITH	1	1725

Output

#	Time	Action	Message	Duration / Fetch
7	15:24:47	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'where actor_id = 5' at line 1	0.000 sec
8	15:25:15	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5 LIMIT 0, 400	29 row(s) returned	0.032 sec / 0.000 sec
9	15:26:40	select * from sakila.film left outer join sakila.language using(language_id) LIMIT 0, 400	400 row(s) returned	0.047 sec / 0.016 sec
10	15:29:13	select first_name, last_name, title from sakila.film join sakila.film_actor using(film_id) join sakila.language using(language_id)	400 row(s) returned	0.062 sec / 0.000 sec
11	15:30:51	SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment using (rental_id)	400 row(s) returned	0.125 sec / 0.031 sec
12	15:33:13	select first_name, last_name, customer_id, rental_id from sakila.customer join sakila.rental using(customer_id)	400 row(s) returned	0.000 sec / 0.000 sec

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6 select * from sakila.film
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8 where actor_id = 5;
9
10 # Write a query that lists out all information of every film along with the name of the language for each film, even if a language doesn't exist for it.

```

Result Grid

film_id	title	description	release_year	language_id	original_language_id	rental_duration	rental_rate	length	replacement_cost	rating
10	ANADOLUS HOLY	A Fractional Display of a Pioneer And a Technician...	2006	1	1	5	0.99	115	20.99	PG
54	BANISTER PINGCHONG	A Awaken-Ing Drama of a Car And a Parody C...	2006	1	1	5	0.99	115	15.99	R
85	BONNIE HOLOCAUST	A Fast-Paced Story of a Crocodile And a Robot ...	2006	1	1	4	0.99	63	25.99	G
146	CHITTY LOOK	A Boring Cocktail of a Boat And a Database Admi...	2006	1	1	6	3.99	107	24.99	G
171	COMPANIONMENTS EXPRESS	A Fanciful Sage of a Student And a Mad Science...	2006	1	1	6	4.99	59	15.99	R

Output

#	Time	Action	Message	Duration / Fetch
8	15:25:15	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5 LIMIT 0, 400	29 row(s) returned	0.032 sec / 0.000 sec
9	15:26:40	select * from sakila.film left outer join sakila.language using(language_id) LIMIT 0, 400	400 row(s) returned	0.047 sec / 0.016 sec
10	15:29:13	select first_name, last_name, title from sakila.film join sakila.film_actor using(film_id) join sakila.language using(language_id)	400 row(s) returned	0.062 sec / 0.000 sec
11	15:30:51	SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment using (rental_id)	400 row(s) returned	0.125 sec / 0.031 sec
12	15:33:13	select first_name, last_name, customer_id, rental_id from sakila.customer join sakila.rental using(customer_id)	400 row(s) returned	0.000 sec / 0.000 sec
13	15:33:43	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5 LIMIT 0, 400	29 row(s) returned	0.000 sec / 0.000 sec

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5 # Write a query that finds all films with actors that have an actor_id = 5.
6
7 # Evaluate the selected portion of the script or everything, if there is no selection
8 where actor_id = 5;
9
10 # Write a query that lists out all information of every film along with the name of the language for each film, even if a language doesn't exist for the film.
11 select * from sakila.film
12 left outer join sakila.language using(language_id);
13
14 # Write a query that lists out the title of films and the name of the actors who starred in those films. Additionally, only list films that starred in more than one film.

```

Result Grid

language_id	film_id	title	description	release_year	original_language_id	rental_duration	rental_rate	length	replacement_cost	rating
1	1	ACADEMY DINOSAUR	A Epic Drama of a President And a Mad Scientist ...	2005	1	6	8.99	86	20.99	PG
1	2	ACE GOLDFINGER	A Archaic Tale of a Database Administrator's ...	2005	1	3	4.99	40	12.99	G
1	3	ADAPTATION HOLICS	A Archaic Tale of a Database Administrator's ...	2005	1	7	2.99	50	10.99	NC-17
1	4	AFRICAN PREJUDICE	A Painful Documentary of a Fishbowl And a Lum...	2005	1	5	2.99	117	20.99	G
1	5	AFRICAN DGG	A Fast-Paced Documentary of a Pastry Chef An...	2005	1	6	2.99	130	22.99	G

Output

Action Output

#	Time	Action	Message	Duration / Finish
9	15:20:40	select * from sakila.film left outer join sakila.language using(language_id) LIMIT 0, 400	400 row(s) returned	0.047 sec / 0.016 sec
10	15:29:13	select first_name, last_name, title from sakila.film join sakila.film_actor using(film_id) join sakila...	400 row(s) returned	0.062 sec / 0.000 sec
11	15:30:31	SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment using...	400 row(s) returned	0.125 sec / 0.031 sec
12	15:33:13	select first_name, last_name, customer_id, rental_id from sakila.customer join sakila.rental us...	400 row(s) returned	0.000 sec / 0.000 sec
13	15:33:43	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5 LIMIT 0, 400	23 row(s) returned	0.000 sec / 0.000 sec
14	15:33:52	select * from sakila.film left outer join sakila.language using(language_id) LIMIT 0, 400	400 row(s) returned	0.000 sec / 0.000 sec

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```

16 join sakila.film_actor using(film_id)
17 join sakila.actor using(actor_id)
18 where first_name like 'a%' or first_name like 'e%' or first_name like 'i%' or first_name like 'o%' or first_name like 'u%'
19
20 #part 2
21 SELECT * from sakila.inventory
22 join sakila.rental using (inventory_id)
23 join sakila.payment using (rental_id)
24 where amount > 4.99;
25

```

Result Grid

first_name	last_name	title
CHASE	CHASE	ALICE TRIP
CHASE	CHASE	ARMY MISTAKES
CHASE	CHASE	ARTIST COLLECTOR
CHASE	CHASE	BOOHOOO DALLROOM
CHASE	CHASE	CADDYSHACK JEDI
CHASE	CHASE	CONVOY DOOM

Output

Action Output

#	Time	Action	Message	Duration / Finish
10	15:29:13	select first_name, last_name, title from sakila.film join sakila.film_actor using(film_id) join sakila...	400 row(s) returned	0.062 sec / 0.000 sec
11	15:30:31	SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment using...	400 row(s) returned	0.125 sec / 0.031 sec
12	15:33:13	select first_name, last_name, customer_id, rental_id from sakila.customer join sakila.rental us...	400 row(s) returned	0.000 sec / 0.000 sec
13	15:33:43	select * from sakila.film join sakila.film_actor using(film_id) where actor_id = 5 LIMIT 0, 400	23 row(s) returned	0.000 sec / 0.000 sec
14	15:33:52	select * from sakila.film left outer join sakila.language using(language_id) LIMIT 0, 400	400 row(s) returned	0.000 sec / 0.000 sec
15	15:34:03	select first_name, last_name, title from sakila.film join sakila.film_actor using(film_id) join sakila...	400 row(s) returned	0.016 sec / 0.000 sec

The screenshot shows a SQL IDE window titled "Lesson 2 Hands-On". The query editor contains the following SQL code:

```

17 join sakila.actor using(actor_id)
18 where first_name like 'a%' or first_name like 'e%' or first_name like 'i%' or first_name like 'o%' or first_name like 'u%';
19
20
21 #part 2
22 SELECT * from sakila.inventory
23 join sakila.rental using (inventory_id)
24 join sakila.payment using (rental_id)
25 where amount > 4.99;

```

The results pane shows a table with 12 columns: rental\_id, inventory\_id, film\_id, store\_id, last\_update, rental\_date, customer\_id, return\_date, staff\_id, last\_update, payment\_id, customer\_id, staff\_id. The table contains 5 rows of data.

The output pane shows the execution of the query, with the following messages:

```

11 15:30:51 SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment usin... 400 row(s) returned 0.125 sec / 0.051 sec
12 15:33:13 select first_name, last_name, customer_id, rental_id from sakila.customer join sakila.rental us... 400 row(s) returned 0.000 sec / 0.000 sec
13 15:33:43 select * from sakila.film join sakila.film_actor using (film_id) where actor_id = 5 LIMIT 0, 400 29 row(s) returned 0.000 sec / 0.000 sec
14 15:33:52 select * from sakila.film left outer join sakila.language using (language_id) LIMIT 0, 400 400 row(s) returned 0.000 sec / 0.000 sec
15 15:34:03 select first_name, last_name, title from sakila.film join sakila.film_actor using (film_id) join sakila... 400 row(s) returned 0.016 sec / 0.000 sec
16 15:34:18 SELECT * from sakila.inventory join sakila.rental using (inventory_id) join sakila.payment usin... 400 row(s) returned 0.000 sec / 0.000 sec

```

# Write a query to find the first and last name, customer ID and rental ID for customers who have rented a film.

```

select first_name, last_name, customer_id, rental_id from sakila.customer
join sakila.rental using(customer_id);

```

# Write a query that finds all films with actors that have an actor\_id 5.

```

select * from sakila.film
join sakila.film_actor using(film_id)
where actor_id = 5;

```

#Write a query that lists out all information of every film along with the name of the language for each film, even if a language doesn't exist for that film.

```

select * from sakila.film
left outer join sakila.language using(language_id);

```

# Write a query that lists out the title of films and the name of the actors who starred in those films. Additionally, only list films that starred artists whose first names start with a vowel.

```

select first_name, last_name, title from sakila.film
join sakila.film_actor using(film_id)
join sakila.actor using(actor_id)
where first_name like 'a%' or first_name like 'e%' or first_name like 'i%' or first_name like 'o%' or
first_name like 'u%';

```

#part 2

```
SELECT * from sakila.inventory  
join sakila.rental using (inventory_id)  
join sakila.payment using (rental_id)  
where amount > 4.99;
```