

Lab work report 9 - Sakila

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1. List names of all the languages in the database (sorted alphabetically)?

```
select * from language order by name asc;
```

language_id	name	last_update
1	English	2006-02-15 05:02:19
5	French	2006-02-15 05:02:19
6	German	2006-02-15 05:02:19
2	Italian	2006-02-15 05:02:19
3	Japanese	2006-02-15 05:02:19
4	Mandarin	2006-02-15 05:02:19

6 rows in set (0.00 sec)

2. List full names of actors with "GER" in their last name, ordered by their first name

```
select concat(first_name, " ", last_name) as full_name  
  -> from actor  
  -> where last_name like "%GER%"  
  -> order by first_name;
```

full_name
CAMERON ZELLWEGER
JULIA ZELLWEGER
MICHAEL BOLGER
MINNIE ZELLWEGER
VAL BOLGER
VIVIEN BASINGER

6 rows in set (0.00 sec)

3. Find all the addresses where postal code starts with "57", and return addresses sorted.

```
select * from address  
  -> where postal_code like "57%"  
  -> order by address;
```

address_id	address	address2	district
city_id	postal_code	phone	last_update
143	1029 Dzerzinsk Manor		
Ynlin	542	57519	33173584456
2014-09-25 22:33:16			
376	1061 Ede Avenue		
Southern Tagalog	98	57810	333390595558
2014-09-25 22:33:16			
167	1287 Xiangfan Boulevard		
Gifu	253	57844	819416131190
2014-09-25 22:33:16			
252	1309 Weifang Street		
Florida	520	57338	435785045362
2014-09-25 22:33:16			
502	1515 Korla Way		
England	589	57197	959467760895
2014-09-25 22:33:16			
59	1697 Kowloon and New Kowloon Loop		
Moskova	49	57807	499352017190
2014-09-25 22:33:16			
444	231 Kaliningrad Place		
Lombardia	70	57833	575081026569
2014-09-25 22:33:16			
552	390 Wroclaw Way		
Hainan	462	5753	357593328658
2014-09-25 22:33:16			
338	431 Szkesfehrvr Avenue		
Baki	48	57828	119501405123
2014-09-25 22:33:16			
308	687 Alessandria Parkway		
Sanaa	455	57587	407218522294
2014-09-25 22:33:16			
562	869 Shikarpur Way		
England	496	57380	590764256785
2014-09-25 22:33:16			

11 rows in set (0.00 sec)

4. How many films involve a "DWARF" in their titles?

```
select count(1) from film
-> where title like "%DWARF%"
```

count(1)
2

```
+-----+
1 row in set (0.00 sec)
```

5. Find full names of actors who played in a film involving 'WAR' in title and longer than 2.5 hours, along with the title, run length and release year of the movie, sorted by the actors' last names.

```
select concat(first_name," ",last_name) as full_name, title, release_year
-> from film_actor join actor
-> on film_actor.actor_id = actor.actor_id
-> join
-> (select film_id, title, release_year from film
-> where title like "%WAR%" and length > 150) as t1
-> on t1.film_id = film_actor.film_id
-> order by actor.last_name;
```

full_name	title	release_year
ANGELINA ASTAIRE	WARDROBE PHANTOM	2006
KARL BERRY	LEATHERNECKS DWARFS	2006
SUSAN DAVIS	LEATHERNECKS DWARFS	2006
RIVER DEAN	WARDROBE PHANTOM	2006
SPENCER DEPP	LEATHERNECKS DWARFS	2006
BOB FAWCETT	LEATHERNECKS DWARFS	2006
GREGORY GOODING	WARDROBE PHANTOM	2006
ADAM GRANT	GLADIATOR WESTWARD	2006
KIRK JOVOVICH	GLADIATOR WESTWARD	2006
KIRK JOVOVICH	WARDROBE PHANTOM	2006
JULIA MCQUEEN	GLADIATOR WESTWARD	2006
PENELOPE MONROE	LEATHERNECKS DWARFS	2006
WARREN NOLTE	WARDROBE PHANTOM	2006
JAYNE SILVERSTONE	GLADIATOR WESTWARD	2006
IAN TANDY	GLADIATOR WESTWARD	2006
IAN TANDY	LEATHERNECKS DWARFS	2006
THORA TEMPLE	WARDROBE PHANTOM	2006
WALTER TORN	WARDROBE PHANTOM	2006
NICK WAHLBERG	WARDROBE PHANTOM	2006
UMA WOOD	LEATHERNECKS DWARFS	2006
CAMERON ZELLWEGER	GLADIATOR WESTWARD	2006

21 rows in set (0.01 sec)

6. Find all the film categories in which there are between 55 and 65 films. Return the names of these categories and the number of films per category, sorted by the number of films descending.

```
select category.name, count(1) as "number of films" from category
-> join film_category
-> on film_category.category_id = category.category_id
-> group by film_category.category_id
-> having count(1) <= 65 and count(1) >= 55
-> order by 'number of films' desc;
```

name	number of films
Action	64
New	63
Drama	62
Sci-Fi	61
Games	61
Children	60
Comedy	58
Travel	57
Classics	57
Horror	56

10 rows in set (0.01 sec)

7. In how many film categories is the average difference between the film replacement cost and the rental rate larger than 17?

```
select count(1) from
-> (select 1 from film
-> join film_category
-> on film_category.film_id = film.film_id
-> group by film_category.category_id
-> having abs(avg(replacement_cost) - avg(rental_rate)) > 17)
-> as t;
```

count(1)
1

```

|          8 |
+-----+
1 row in set (0.00 sec)

```

8. Find the address district(s) name(s) such that the minimal postal code in the district(s) is maximal over all the districts. Make sure your query ignores empty postal codes and district names.

```

select district ,min(postal_code) as min_postal_code
-> from address
-> where postal_code is not null
-> group by district
-> order by min_postal_code desc
-> limit 1;

```

district	min_postal_code
Crdoaba	99865

```

1 row in set (0.00 sec)

```

9. Find the names (first and last) of all the actors and customers whose first name is the same as the first name of the actor with ID 101 (exclude the actor with ID 101).

```

create view susan as
-> select first_name
-> from actor
-> where actor_id = 101;
Query OK, 0 rows affected (0.02 sec)

```

```

select first_name , last_name
-> from customer
-> where first_name = (select first_name from susan)
-> union
-> select first_name , last_name
-> from actor
-> where first_name = (select first_name from susan)
-> and actor_id <> 101;

```

first_name	last_name
SUSAN	WILSON
SUSAN	DAVIS

2 rows in set (0.00 sec)