

1. Which actors have the first name 'Scarlett'?
 Answer: `select * from actor where first_name='Scarlett';`
2. Which actors have the last name 'Johansson'?
 Answer: `select * from actor where last_name='Johansson';`
3. How many distinct actors last names are there?
 Answer: `select count(distinct last_name) from actor;`
4. Which last names are not repeated?
 Answer: `select last_name from actor group by last_name having count(last_name) = 1;`
5. Which last names appear more than once?
 Answer: `select last_name FROM actor group by last_name having count(last_name) >1;`
6. Which actor has appeared in the most films?
 Answer: `select actor_id, first_name, last_name, count(actor_id) from actor join film_actor using (actor_id) group by actor_id order by count(actor_id) desc limit 1;`
7. Is 'Academy Dinosaur' available for rent from Store 1?
 Answer: `select inventory.inventory_id from inventory join store using (store_id) join film using (film_id) join rental using (inventory_id) where film.title = 'Academy Dinosaur' and store.store_id = 1 and not exists (select * from rental where rental.inventory_id = inventory.inventory_id and rental.return_date is null);`
8. Insert a record to represent Mary Smith renting 'Academy Dinosaur' from Mike Hillyer at Store 1 today .
 Answer: `insert into rental (rental_date, inventory_id, customer_id, staff_id) values (now(), 1, 1, 1);`
9. When is 'Academy Dinosaur' due?
 Answer: `select rental_date, rental_date + interval(select rental_duration from film where film_id = 1) day as due_date from rental where rental_id = (select rental_id from rental order by rental_id desc limit 1);`
10. What is that average running time of all the films in the sakila DB?
 Answer: `select avg(length) as running_time from film;`
11. What is the average running time of films by category?
 Answer: `select category.name, avg(length) from film join film_category using (film_id) join category using (category_id) group by category.name order by avg(length) desc;`
12. Why does this query return the empty set?
 Answer: `select * from film natural join inventory;`

