```
-- 1 Copies of Hunchback Impssoible
select a.title, count(*) as Copies
from film as a
join inventory as b
on a.film_id = b.film_id
where a.title = "Hunchback Impossible";

-- 2
select title, length
from film
where length > (select avg(length) from film)
order by length asc;

-- 3
select film_id
from film
where title = "Alone Trip";

-- 1st alternative with joins
select c.actor_id, c.first_name, c.last_name
from film as a
join film_actor as b
on a.film_id = b.film_id
join actor as c
on b.actor_id = c.actor_id
where a.film_id = (select film_id from film  where title = "Alone Trip");

-- 2nd alternative without joins only subqueries
select *
from actor
where actor_id in ((select actor_id from film_actor where film_id = (select film_id
from film  where title = "Alone Trip")));

-- 4
select film_id, title
from film
where film_id in (select film_id from film_category
                                                where category_id in ((select category_id
from category where name = "Family")));

-- 5
-- subqueries
select first_name, last_name, email
from customer where address_id in ((select address_id from address
                                    where city_id in ((select city_id from city
                                    where country_id = (select country_id from country where
country = "Canada")))));

-- joins
```

```
select first_name, last_name, email
from customer as a
join address as b
on a.address_id = b.address_id
join city as c
on b.city_id = c.city_id
join country as d
on c.country_id = d.country_id
where d.country = 'Canada';


-- 6
select a.film_id, title, c.first_name, c.last_name -- c.actor_id, c.first_name,
c.last_name, count(a.film_id) # actor-id 107 has starred in 42 movies
from film as a
join film_actor as b
on a.film_id = b.film_id
join actor as c
on b.actor_id = c.actor_id
where c.actor_id = 107;
-- group by c.actor_id
-- order by count(a.film_id) desc



-- 7
-- first step
select a.customer_id
from customer as a
join payment as b
on a.customer_id = b.customer_id
group by a.customer_id
order by sum(amount) desc
limit 1;

-- 2nd step
select a.film_id, title
from film as a
join inventory as b
on a.film_id = b.film_id
join rental as c
on b.inventory_id = c.inventory_id
where c.customer_id = (select a.customer_id from customer as a
                                        join payment as b on a.customer_id = b.customer_id
                                        group by a.customer_id
                                        order by sum(amount) desc
                                        limit 1);

-- 8
-- average payments
```

```
select sum(amount)/count(distinct(customer_id)) as avg_payments -- dividing all
amounts by the total customers which rented a movie
from payment;

select a.customer_id, b.first_name, b.last_name, sum(amount) as amount_paid
from payment as a
join customer as b
on a.customer_id = b.customer_id
group by a.customer_id
having amount_paid > (select sum(amount)/count(distinct(customer_id)) from
payment)
order by sum(amount);

;
```