

Brandon Gallagher  
Assignment 3  
Professor Kim

A.)

```
SELECT lname, COUNT(lname)
FROM actor
GROUP BY lname
ORDER BY COUNT(lname) DESC, lname ASC
```

B.)

```
SELECT fname
FROM actor
ORDER BY (SELECT COUNT(fname)
          FROM actor
          )
LIMIT 20
```

C.)

```
SELECT title, COUNT(film_actor.actor_id)
FROM film_actor JOIN film ON film_actor.film_id = film.film_id
HAVING COUNT(film_actor.actor_id) > ALL (SELECT COUNT(film_actor.actor_id)
      FROM film_actor
      GROUP BY film_actor.film_id)
```

D.)

E.)

```
SELECT fname, lname
FROM actor
WHERE (SELECT COUNT(*)
FROM film_actor AS fa1 NATURAL JOIN film
WHERE film.rating = 'R' AND actor_id = fa1.actor_id) >= 0
AND
(SELECT COUNT(*)
FROM film_actor AS fa2 NATURAL JOIN film
WHERE film.rating <> 'R' AND actor_id = fa2.actor_id) == 0
```

F.)

```
SELECT fname, lname
FROM actor
WHERE EXISTS (SELECT *
```

```
FROM film_actor NATURAL JOIN film
WHERE film.rating = 'R' AND actor.actor_id = actor_id)
AND
NOT EXISTS (SELECT *
FROM film_actor NATURAL JOIN film
WHERE film.rating <> 'R' AND actor.actor_id = actor_id)
```

```
G.)
SELECT fname, lname
FROM actor
WHERE actor_id IN (SELECT actor_id
FROM film_actor NATURAL JOIN film
WHERE film.rating = 'R')
AND
actor_id NOT IN (SELECT actor_id
FROM film_actor NATURAL JOIN film
WHERE film.rating <> 'R')
```

```
H.)
SELECT store_id, MAX(customer)
FROM store (SELECT COUNT(customer.customer_id)
FROM customer JOIN store ON customer.store_id = store.store_id
GROUP BY store.store_id)
```

```
I.)
SELECT film.title
FROM film JOIN inventory ON inventory.film_id = film.film_id
JOIN rental ON rental.inventory_id = inventory.inventory_id
WHERE rental.return_date <> null
ORDER BY film.title
```