Lab 1: queries

- Sakila database download
- Sakila database structure

Task 1:

```
SHOW FULL TABLES;
```

Task 2:

```
SELECT title FROM film WHERE length > 120;
```

Task 3:

```
SELECT titile FROM film WHERE rating='G' ORDER BY length LIMIT 4;
```

Task 4:

```
SELECT f.title, l.name
FROM film AS f JOIN language AS l ON f.language_id=l.language_id
WHERE f.description LIKE "%Drama%";
```

Task 5:

```
SELECT f.title
FROM film AS f JOIN film_category AS fc ON f.film_id=fc.film_id
JOIN category AS c ON fc.category_id=c.category_id
WHERE c.name='Family' AND f.description LIKE '%Documentary%';
```

Task 6:

```
SELECT f.title
   FROM film AS f JOIN film_category AS fc ON f.film_id=fc.film_id
   JOIN category AS c ON fc.category_id=c.category_id
   WHERE c.name='Children' AND f.rating<>'G';
```

Task 7:

```
SELECT rating, COUNT(film_id) FROM film GROUP BY rating;
```

Task 8:

```
SELECT DISTINCT f.title

FROM film AS f JOIN inventory AS i ON f.film_id=i.film_id

JOIN rental AS r ON i.inventory_id=r.inventory_id

WHERE DATE(r.rental_date) BETWEEN '2005-05-31' AND '2005-06-16'

ORDER BY f.title;
```

Task 9:

```
SELECT DISTINCT a.first_name, a.last_name
FROM actor AS a JOIN film_actor AS fa ON a.actor_id=fa.actor_id
JOIN film AS f ON fa.film_id=f.film_id
WHERE f.special_features LIKE "%Deleted Scenes%";
```

Task 10:

```
SELECT DISTINCT c.first_name, c.last_name

FROM customer AS c JOIN rental AS r ON c.customer_id=r.customer_id

JOIN payment AS p ON r.rental_id=p.rental_id

WHERE r.staff_id<>p.staff_id;
```

Task 11:

```
SELECT c.first_name, c.last_name, COUNT(r.rental_id)
   FROM customer AS c JOIN rental AS r ON c.customer_id=r.customer_id
   GROUP BY c.customer_id
   HAVING COUNT(r.rental_id) >
      (SELECT COUNT(r.rental_id)
      FROM rental AS r JOIN customer AS c ON r.customer_id=c.customer_id
   WHERE c.email='MARY.SMITH@sakilacustomer.org');
```

Task 12:

```
SELECT a1.first_name, a1.last_name, a2.first_name, a2.last_name
FROM

(SELECT fa1.actor_id AS actor_1, fa2.actor_id AS actor_2
    FROM film_actor AS fa1, film_actor AS fa2

WHERE fa1.film_id=fa2.film_id AND fa1.actor_id<br/>
GROUP BY fa1.actor_id, fa2.actor_id

HAVING COUNT(*)>1) AS ap

JOIN actor AS a1 ON ap.actor_1=a1.actor_id;
```

Task 13:

```
SELECT a.last_name

FROM actor AS a WHERE a.actor_id NOT IN

(SELECT fa.actor_id

FROM film_actor AS fa JOIN film AS f ON fa.film_id=f.film_id

WHERE f.title LIKE 'C%');
```

Task 14:

```
SELECT a.last_name
    FROM actor AS a
WHERE
        (SELECT COUNT(*)
            FROM film_actor AS fa
            JOIN film_category AS fc ON fa.film_id=fc.film_id
            JOIN category AS c ON fc.category_id=c.category_id
            WHERE a.actor_id=fa.actor_id AND c.name='Action') >
        (SELECT COUNT(*)
            FROM film_actor AS fa
            JOIN film_category AS fc ON fa.film_id=fc.film_id
            JOIN category AS c ON fc.category_id=c.category_id
            WHERE a.actor_id=fa.actor_id AND c.name='Horror');
```

Task 15:

```
SELECT DISTINCT c.email
   FROM customer AS c JOIN payment AS p ON c.customer_id=p.customer_id
   GROUP BY c.email
   HAVING AVG(p.amount) <
        (SELECT AVG(amount) FROM payment
        WHERE DATE(payment_date)='2005-07-30');</pre>
```

Task 16:

```
UPDATE film AS f SET f.language_id=
   (SELECT language_id FROM language
    WHERE name='Italian')
WHERE f.title='YOUNG LANGUAGE';
```

Task 17:

```
INSERT INTO language(name) VALUES('Spanish');
```

```
UPDATE film AS f SET f.language_id=
   (SELECT language_id FROM language
    WHERE name='Spanish')
```

```
WHERE f.film_id IN

(SELECT fa.film_id

FROM film_actor AS fa JOIN actor AS a ON fa.actor_id=a.actor_id

WHERE a.first_name='ED' AND a.last_name='CHASE');
```

Task 18:

```
ALTER TABLE language ADD films_no int;
```

```
UPDATE language AS l SET l.films_no=
   (SELECT COUNT(*) FROM film AS f
   WHERE f.language_id=l.language_id);
```

Task 19:

ALTER TABLE film DROP COLUMN release_year;