Name: Clarence B. Manalo

1. Display all columns from tbl_employees.
2. Display only the firstname and lastname of all employees.
3. Show firstname, lastname, and salary of all employees.
4. Find all employees whose firstname starts with **'S'**.
5. Find all employees whose lastname ends with **'off'**.
6. Find employees with firstname containing **'an'**.
7. **Find employees whose firstname second letter is 'e'.**

```
MariaDB [db_manalo]> select * from tbl_employees where firstname like '_e%';
+----+-----------+----------+-------------+--------+----------+------------+--------+
| id | firstname | lastname | position_id | gender | salary   | date_hired | status |
+----+-----------+----------+-------------+--------+----------+------------+--------+
|  1 | Jerwin    | Cruz     |           1 | M      | 60000.00 | 2018-06-30 | ACTIVE |
|  2 | Peter     | Parker   |           2 | M      | 65000.00 | 2011-12-02 | ACTIVE |
+----+-----------+----------+-------------+--------+----------+------------+--------+
2 rows in set (0.000 sec)
```

8. **Find employees whose lastname starts with 'R'.**

```
MariaDB [db_manalo]> select * from tbl_employees where lastname like 'r%';
+----+-----------+----------+-------------+--------+----------+------------+--------+
| id | firstname | lastname | position_id | gender | salary   | date_hired | status |
+----+-----------+----------+-------------+--------+----------+------------+--------+
|  4 | Natasha   | Romanoff |           4 | F      | 70000.00 | 2015-10-24 | ACTIVE |
|  6 | Steve     | Rogers   |           1 | M      | 58000.00 | 2017-07-25 | ACTIVE |
+----+-----------+----------+-------------+--------+----------+------------+--------+
2 rows in set (0.000 sec)
```

9. **Show distinct position_id values.**

```
MariaDB [db_manalo]> select distinct id from tbl_employees;
+----+
| id |
+----+
|  1 |
|  2 |
|  3 |
|  4 |
|  5 |
|  6 |
|  7 |
+----+
7 rows in set (0.001 sec)
```

10. Show distinct gender values from the table.
11. Display all employees with a salary greater than **60,000**.
12. Display all employees who were hired before **2015-01-01**.
13. Display employees with gender = 'F'.
14. Show employees whose status is ACTIVE.
15. Display employees whose salary is between **50,000** and **70,000**.
16. **Display employees sorted by firstname in ascending order.**

```
MariaDB [db_manalo]> select * from tbl_employees order by firstname asc;
+----+-----------+----------+-------------+--------+-----------+------------+--------+
| id | firstname | lastname | position_id | gender | salary    | date_hired | status |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
|  1 | Jerwin    | Cruz     |           1 | M      |  60000.00 | 2018-06-30 | ACTIVE |
|  4 | Natasha   | Romanoff |           4 | F      |  70000.00 | 2015-10-24 | ACTIVE |
|  2 | Peter     | Parker   |           2 | M      |  65000.00 | 2011-12-02 | ACTIVE |
|  7 | Stephen   | Strange  |           5 | M      |  52000.00 | 2013-08-25 | ACTIVE |
|  6 | Steve     | Rogers   |           1 | M      |  58000.00 | 2017-07-25 | ACTIVE |
|  3 | Tony      | Stark    |           2 | M      | 102000.00 | 2002-02-01 | ACTIVE |
|  5 | Wanda     | Maximoff |           3 | F      |  48000.00 | 2016-09-25 | ACTIVE |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
7 rows in set (0.001 sec)
```

17. **Display employees sorted by salary in descending order.**

```
MariaDB [db_manalo]> select * from tbl_employees order by salary desc;
+----+-----------+----------+-------------+--------+-----------+------------+--------+
| id | firstname | lastname | position_id | gender | salary    | date_hired | status |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
|  3 | Tony      | Stark    |           2 | M      | 102000.00 | 2002-02-01 | ACTIVE |
|  4 | Natasha   | Romanoff |           4 | F      |  70000.00 | 2015-10-24 | ACTIVE |
|  2 | Peter     | Parker   |           2 | M      |  65000.00 | 2011-12-02 | ACTIVE |
|  1 | Jerwin    | Cruz     |           1 | M      |  60000.00 | 2018-06-30 | ACTIVE |
|  6 | Steve     | Rogers   |           1 | M      |  58000.00 | 2017-07-25 | ACTIVE |
|  7 | Stephen   | Strange  |           5 | M      |  52000.00 | 2013-08-25 | ACTIVE |
|  5 | Wanda     | Maximoff |           3 | F      |  48000.00 | 2016-09-25 | ACTIVE |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
7 rows in set (0.001 sec)
```

18. **Show employees sorted by date_hired (oldest first).**

```
MariaDB [db_manalo]> select * from tbl_employees order by date_hired asc;
+----+-----------+----------+-------------+--------+-----------+------------+--------+
| id | firstname | lastname | position_id | gender | salary    | date_hired | status |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
|  3 | Tony      | Stark    |           2 | M      | 102000.00 | 2002-02-01 | ACTIVE |
|  2 | Peter     | Parker   |           2 | M      |  65000.00 | 2011-12-02 | ACTIVE |
|  7 | Stephen   | Strange  |           5 | M      |  52000.00 | 2013-08-25 | ACTIVE |
|  4 | Natasha   | Romanoff |           4 | F      |  70000.00 | 2015-10-24 | ACTIVE |
|  5 | Wanda     | Maximoff |           3 | F      |  48000.00 | 2016-09-25 | ACTIVE |
|  6 | Steve     | Rogers   |           1 | M      |  58000.00 | 2017-07-25 | ACTIVE |
|  1 | Jerwin    | Cruz     |           1 | M      |  60000.00 | 2018-06-30 | ACTIVE |
+----+-----------+----------+-------------+--------+-----------+------------+--------+
7 rows in set (0.000 sec)
```

19. **Count how many employees are in each position_id.**

```
MariaDB [db_manalo]> select position_id,count(position_id) as total_employees from tbl_employees gr
oup by position_id;
+-------------+-----------------+
| position_id | total_employees |
+-------------+-----------------+
|           1 |               2 |
|           2 |               2 |
|           3 |               1 |
|           4 |               1 |
|           5 |               1 |
+-------------+-----------------+
5 rows in set (0.000 sec)
```

20. **Count how many employees are grouped by gender.**

```
MariaDB [db_manalo]> SELECT gender, COUNT(*) AS total FROM tbl_employees group by gender having cou
nt(*) >1
    -> ;
+--------+-------+
| gender | total |
+--------+-------+
| F      |     2 |
| M      |     5 |
+--------+-------+
2 rows in set (0.000 sec)
```

21. **Find the total salary per position_id.**

```
MariaDB [db_manalo]> select position_id,sum(salary) as total_salary from tbl_employees group by pos
ition_id;
+-------------+--------------+
| position_id | total_salary |
+-------------+--------------+
|           1 |    118000.00 |
|           2 |    167000.00 |
|           3 |     48000.00 |
|           4 |     70000.00 |
|           5 |     52000.00 |
+-------------+--------------+
5 rows in set (0.000 sec)
```

22. Show position_id groups having more than **1 employee**.
23. Show gender groups where the average salary is above **60,000**.
24. Show only the **first 3 employees** from the table.
25. Show **3 employees starting from the 3rd record** in the table.