Name: <u>Alvarez, Karlrich Dereck T.</u>

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'**.
8. Find employees whose lastname starts with **'R'**.
9. Show distinct position_id values.
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_alvarez]> 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 (0.018 sec)

MariaDB [db_alvarez]>
```

17. Display employees sorted by salary in descending order.

```
MariaDB [db_alvarez]> 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)

MariaDB [db_alvarez]>
```

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

```
MariaDB [db_alvarez]> 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)

MariaDB [db_alvarez]>
```

19. Count how many employees are in each position_id.

```
MariaDB [db_alvarez]>  SELECT position_id, COUNT(*) AS total_employees FROM tbl_employees GROUP BY position_id;
+-------------+-----------------+
| position_id | total_employees |
+-------------+-----------------+
|           1 |               2 |
|           2 |               2 |
|           3 |               1 |
|           4 |               1 |
|           5 |               1 |
+-------------+-----------------+
5 rows in set (0.000 sec)

MariaDB [db_alvarez]>
```

20. Count how many employees are grouped by gender.

```
MariaDB [db_alvarez]> SELECT gender, COUNT(*) AS total_employees FROM tbl_employees GROUP BY gender;
+--------+-----------------+
| gender | total_employees |
+--------+-----------------+
| F      |               2 |
| M      |               5 |
+--------+-----------------+
2 rows in set (0.001 sec)

MariaDB [db_alvarez]>
```

21. Find the total salary per position_id.
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.