Course: DMSL
Section-C
Instructor: JMH

Important Queries for performance test-1:

1. SELECT * FROM employees;

2. SELECT id, first_name, last_name, email FROM employees;

3. SELECT id, first_name, last_name, email, designation, department FROM employees;

4. SELECT id, first_name, last_name, email, designation, department, gender
   FROM employees
   WHERE gender='Male';

5. SELECT id, first_name, last_name, email, designation, department
   FROM employees
   WHERE department='Computer Science and engineering';

6. SELECT id, first_name, last_name, email, designation, department, gender
   FROM employees
   WHERE department='Computer Science and engineering' AND gender='Female';

7. SELECT id, first_name, last_name, email, designation, department, gender
   FROM employees
   WHERE department='Computer Science and engineering' AND gender='Female' AND
   designation='software developer';

8. SELECT id, first_name, last_name, email, designation, department, gender
   FROM employees
   WHERE designation='software developer' OR designation='Professor';

9. SELECT id, CONCAT(first_name,' ', last_name), email, designation, department, gender
   FROM employees
   WHERE designation='software developer' OR designation='Professor';

10. SELECT id, CONCAT(first_name,' ', last_name) AS full_name, email, designation, department,
    gender
    FROM employees
    WHERE designation='software developer' OR designation='Professor';

11. SELECT id, CONCAT(first_name,' ', last_name) AS full_name, email AS email_address,
    designation, department, gender, salary
    FROM employees
    WHERE salary BETWEEN 172000 AND 200000;

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12. SELECT id, CONCAT(first_name,' ', last_name) AS full_name, email AS email_address, designation, department, gender, salary
    FROM employees
    WHERE salary BETWEEN 172000 AND 200000
    ORDER BY salary ASC;

13. SELECT id, CONCAT(first_name,' ', last_name) AS full_name, email AS email_address, designation, department, gender, salary
    FROM employees
    WHERE salary BETWEEN 172000 AND 200000
    ORDER BY salary DESC;

14. SELECT DISTINCT(country) FROM employees;

15. SELECT first_name, last_name, country
    FROM employees
    where country='Germany' or country='France' or country='Italy';

16. SELECT first_name, last_name, country
    FROM employees
    where country IN('Germany','France','Italy');

17. SELECT first_name, last_name, country
    FROM employees
    where country NOT IN('Germany','France','Italy');

18. SELECT first_name, last_name
    FROM employees
    where first_name LIKE 'a%o';

19. SELECT first_name, last_name
    FROM employees
    where last_name LIKE '%dem%';

20. SELECT first_name, last_name
    FROM employees
    where last_name LIKE 'dem%';

21. SELECT first_name, last_name
    FROM employees
    where last_name LIKE '__r%';

Queries Related to Date:

- Show the 15th day information from current date

```
SELECT ADDDATE(CURDATE(), INTERVAL 15 DAY);
```

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- Show some columns where joining date was june

```
select first_name, last_name, joining_date, MONTHNAME(joining_date)
from employees
where  MONTHNAME(joining_date)="June";
```

- Show some columns where joining date was either june or september or february

```
select first_name, last_name, joining_date, MONTHNAME(joining_date)
from employees
where  MONTHNAME(joining_date) IN ("June", "September", "February");
```

alternate

```
select first_name, last_name, joining_date, MONTH(joining_date)
from employees
where  MONTH(joining_date) IN (6, 9, 2);
```

- Show some columns having birth date as the format: 28th June, 2022

```
select first_name, last_name, birth_date, DATE_FORMAT(birth_date, "%D %M, %Y")
from employees;
```

- Show total number of rows / total employees where joining date was either june or september or february

```
select COUNT(*)
from employees
where  MONTHNAME(joining_date) IN ("June", "September", "February");
```

- Find the total number of employees whose date of birth is June and from computer science

```
select count(joining_date)
from employees
where  MONTHNAME(birth_date)="June" and department="computer science and
engineering";
```

- Find the average salary of employees whose date of birth is June and from computer science

```
select avg(salary)
from employees
where  MONTHNAME(birth_date)="June" and department="computer science and
engineering";
```

- Find the maximum salary of employees whose date of birth is June and from computer science

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- Find the minimum salary of employees whose date of birth is June and from computer science

- Find the total salary of employees whose date of birth is June and from computer science

- Find the maximum salary of each department

```
select department, MAX(salary)
from employees
group by department;
```

- Find the minimum salary of each department

```
select department, MIN(salary)
from employees
group by department;
```

- Show all department where minimum salary of each department is greater than 8100

```
select department, MIN(salary)
from employees
group by department HAVING MIN(salary)>8100;
```