**1.** Write a query to display the name (first\_name, last\_name) and salary for all employees whose salary is not in the range $10,000 through $15,000.

select concat\_ws(' ', first\_name, last\_name) as name, salary from employees where salary not between 10000 and 15000;

-- salary < 10000 or salary > 15000;

**2.** Write a query to display the name (first\_name, last\_name) and department ID of all employees in departments 30 or 100 in ascending order.

Select concat\_ws(' ', first\_name, last\_name) as name, department\_id

from employees

where department\_id in (30, 100)

order by department\_id desc;

**3.** Write a query to display the name (first\_name, last\_name) and salary for all employees whose salary is not in the range $10,000 through $15,000 and are in department 30 or 100.

select concat\_ws(' ', first\_name, last\_name) as name, salary

from employees

where salary not between 10000 and 15000 and department\_id in (30, 100);

**4.** Write a query to display the name (first\_name, last\_name) and hire date for all employees who were hired in 1987.

select concat\_ws(' ', first\_name, last\_name) as name, hire\_date

from employees

where extract(year from hire\_date) = 1987;

-- date\_part('year', hire\_date) = 1987

-- year -> isoyear

-- to\_char (hire\_date, 'YYYY') = '1987'

-- to\_char(hire\_date, 'YYYY-MM-DD') like '%1987%'

**5.** Write a query to display the first\_name of all employees who have both "b" and "c" in their first name.

select first\_name

from employees

where first\_name ~ '.\*b.\*' and first\_name ~ '.\*c.\*';

-- first\_name like '%b%' and first\_name like '%c%'

**6.** Write a query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to $4,500, $10,000, or $15,000.

select last\_name, job\_title, salary

from employees as e,

(select job\_id, job\_title from jobs where job\_title in ('Programmer', 'Shipping Clerk')) as p

where e.job\_id = p.job\_id and salary not in (4500, 10000, 15000);

select last\_name, job\_title, salary

from employees

natural join jobs

where job\_title in ('Programmer', 'Shipping Clerk') and salary not in (4500, 10000, 15000);

select last\_name, job\_title, salary

from employees e join jobs j

ON e.job\_id = j.job\_id

where job\_title in ('Programmer', 'Shipping Clerk') and salary not in (4500, 10000, 15000);

**7.** Write a query to display the last name of employees whose names have exactly 6 characters.

select last\_name

from employees

where LENGTH(last\_name) = 6;

-- last\_name ~ '^.{6}$'

**8.** Write a query to display the last name of employees having 'e' as the third character.

select last\_name

from employees

where last\_name LIKE '\_\_e%';

-- last\_name ~ '^.{2}e.\*$'

**9.** Write a query to display the jobs/designations available in the employees table.

select distinct job\_title

from employees natural left join jobs;

**10.** Write a query to display the name (first\_name, last\_name), salary and PF (15% of salary) of all employees.

select concat\_ws(' ', first\_name, last\_name) as name, salary, 0.15\*salary as PF

from employees;

**11.** Write a query to select all record from employees where last name in 'BLAKE', 'SCOTT', 'KING' and 'FORD'.

select \* from employees where UPPER(last\_name) in ('BLAKE', 'SCOTT', 'KING', 'FORD');