SQL Assignments Project 1

HR Database Questions And Answers (Queries)

1. **Write a query to display the names (first_name, last_name) using alias name “First Name", "Last Name"**

   - select first_name as "First Name", last_name as "Last Name" from employees;

2. **Write a query to get unique department ID from employee table**

   - select distinct department_id from employees;

3. **Write a query to get all employee details from the employee table order by first name, descending**

   - select first_name from employees order by first_name desc;

4. **Write a query to get the names (first_name, last_name), salary, PF of all the employees (PF is calculated as 15% of salary)**

   - select first_name, last_name, salary, salary*.15 as PF from employees;

5. **Write a query to get the employee ID, names (first_name, last_name), salary in ascending order of salary**

   - select first_name, last_name, salary from employees order by salary asc;

6. **Write a query to get the total salaries payable to employees**

   - select sum(salary) from employees;

7. **Write a query to get the maximum and minimum salary from employees table**
   - select max(salary), min(salary) from employees;

8. **Write a query to get the average salary and number of employees in the employees table**
   - select avg(salary), count(*) from employees;

9. **Write a query to get the number of employees working with the company**
   - select count(*) from employees;

10. **Write a query to get the number of jobs available in the employees table**
    - select count(distinct job_id) from employees;

11. **Write a query get all first name from employees table in upper case**
    - select upper(first_name) from employees;

12. **Write a query to get the first 3 characters of first name from employees table**
    - select left(first_name,3) from employees;
    - select substring(first_name,1,3) from employees;
    - select mid(first_name,1,3) from employees;

13. **Write a query to get first name from employees table after removing white spaces from both side**
    - select trim(first_name) from employees;

14. **Write a query to get the length of the employee names (first_name, last_name) from employees table**

    - select first_name, last_name, length(first_name)+length(last_name) from employees;

15. **Write a query to check if the first_name fields of the employees table contains numbers**

    - select first_name from employees where first_name regexp '[0-9]';

16. **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 first_name, last_name, salary from employees where salary not between 10000 and 15000;

17. **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 first_name, last_name, department_id from employees where department_id=30 or department_id=100 order by department_id;
    - select first_name, last_name, department_id from employees where department_id in (30,100) order by department_id;

18. **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 department_id,first_name, last_name, salary from employees where salary not between 10000 and 15000 and department_id=30 or department_id=100 order by department_id;
    - select department_id,first_name, last_name, salary from employees where salary not between 10000 and 15000 and department_id in (30,100) order by department_id;

19. **Write a query to display the name (first_name, last_name) and hire date for all employees who were hired in 1987**

    - select first_name, last_name, hire_date from employees where year(hire_date)=1987;
    - select first_name, last_name, hire_date from employees where year(hire_date) like '1987%';

20. **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 like '%b%' and first_name like '%c%';

21. **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 employees.last_name, employees.salary, jobs.job_title from employees inner join jobs on employees.job_id=jobs.job_id and job_title in ('Programmer', 'Shipping Clerk') where salary<>4500 or salary<>10000 or salary<>15000;
- select last_name,job_id,salary from emp_details_view where job_title in ('Programmer', 'Shipping Clerk') and salary not in (4500,10000,15000);
- select last_name,job_id,salary from emp_details_view where job_title in ('Programmer', 'Shipping Clerk') and salary<>45000 or salary<>10000 or salary<>15000;

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

- select last_name from employees where last_name like '_____';

23. **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%';

24. **Write a query to get the job_id and related employee's id**
- select job_id, group_concat(employee_id) as 'Employee ID' from employees group by job_id;

25. **Write a query to update the portion of the phone_number in the employees table, within the phone number the substring '124' will be replaced by '999'**

- update employees set phone_number = replace(phone_number, '124', '999') where phone_number like '%124%';