**HR Database Questions Project 1**

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;

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

* select distinct department\_id from employees;

1. **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;

1. **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;

1. **Write a query to get the employee ID, names (first\_name, last\_name), salary in ascending order of salary**

* select employee\_id,first\_name,last\_name,salary from employees order by salary asc;

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

* select sum(salary) from employees;

1. **Write a query to get the maximum and minimum salary from employees table**

* select max(salary), min(salary) from employees;

1. **Write a query to get the average salary and number of employees in the employees table**

* select avg(salary), count(\*) from employees;

1. **Write a query to get the number of employees working with the company**

* select count(\*) from employees;

1. **Write a query to get the number of jobs available in the employees table**

* select count(distinct job\_id) from employees;

1. **Write a query get all first name from employees table in upper case**

* select upper(first\_name) from employees;

1. **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;

1. **Write a query to get first name from employees table after removing white spaces from both side**

* select trim(first\_name) from employees;

1. **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;
* select first\_name,last\_name, length(first\_name),length(last\_name) from employees;

1. **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]';

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 first\_name, last\_name, salary from employees where salary not between 10000 and 15000;

1. **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;

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 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;

1. **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;

1. **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%';
* select first\_name from employees where first\_name like '%b%c%';

1. **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,salary,job\_title from emp\_details\_view where job\_title in ('Programmer','Shipping clerk') and salary not in(4500,10000,15000);

1. **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 '\_\_\_\_\_\_';

1. **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%';

1. **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;

1. **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%';

1. **Write a query to get the details of the employees where the length of the first name greater than or equal to 8**

* select \* from employees where length(first\_name)>=8;

1. **Write a query to append '@example.com' to email field**

* update employees set email=concat(email, '@example.com');

1. **Write a query to extract the last 4 character of phone numbers**

* select right(phone\_number, 4) from employees;

1. **Write a query to get the last word of the street address**

* select location\_id,street\_address,substring\_index(street\_address,' ',-1) as 'last word' from locations;

1. **Write a query to get the locations that have minimum street length**

* select \* from locations where length(street\_address)<=(select min(length(street\_address)) from locations);

1. **Write a query to display the first word from those job titles which contains more than one words**

* select job\_title,substr(job\_title,1,instr(job\_title,' ')-1)from jobs;

1. **Write a query to display the length of first name for employees where last name contain character 'c' after 2nd position**

* select first\_name,last\_name from employees where instr(last\_name,'c')>2;

1. **Write a query that displays the first name and the length of the first name for all**

* select first\_name as 'Name',length(first\_name) as'length' from employees where first\_name like 'A%' or first\_name like 'J%' or first\_name like 'M%' order by first\_name;
* select first\_name, length(first\_name) from employees where left(first\_name,1) in ('A','J','M') order by first\_name;

1. **Write a query to display the first name and salary for all employees. Format the salary to be 10 characters long, left-padded with the $ symbol. Label the column SALARY**

* select first\_name,salary,lpad(salary,10,'$') from employees;

1. **Write a query to display the first eight characters of the employees' first names and indicates the amounts of their salaries with '$' sign. Each '$' sign signifies a thousand dollars. Sort the data in descending order of salary**

* select left(first\_name,8),repeat('$', round(salary/1000)) as '$\_salary', salary from employees order by salary desc;

1. **Write a query to display the employees with their code, first name, last name and hire date who hired either on seventh day of any month or seventh month in any year**

* select employee\_id, first\_name, last\_name, hire\_date from employees where day(hire\_date)=7 or month(hire\_date)=7;

**Northwind Database Questions:**

1. **Write a query to get Product name and quantity/unit**

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* select productname, quantityperunit from products;

1. **Write a query to get current Product list (Product ID and name)**

* select productid, productname from products where Discontinued=0 order by ProductName;

1. **Write a query to get discontinued Product list (Product ID and name)**

* select productid, productname from products where Discontinued=1 order by ProductName;

1. **Write a query to get most expense and least expensive Product list (name and unit price)**

* select productname, unitprice from products order by unitprice desc;

1. **Write a query to get Product list (id, name, unit price) where current products cost less than $20**

* select productid, productname, unitprice from products where unitprice<20 order by UnitPrice desc;

1. **Write a query to get Product list (id, name, unit price) where products cost between $15 and $25**

* select productid, productname, unitprice from products where unitprice between 15 and 25 order by unitprice desc;

1. **Write a query to get Product list (name, unit price) of above average price**

* select productname, unitprice from products where unitprice> (select avg(unitprice) from products);

1. **Write a query to get Product list (name, unit price) of ten most expensive products**

* select distinct Productname, unitprice from products order by unitprice desc limit 10;

1. **Write a query to count current and discontinued products**

* select count(discontinued) from products group by Discontinued;

1. **Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order**

* select productname, unitsonorder, unitsinstock from products where unitsinstock<unitsonorder;