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SQL Queries

1. Write a query to display all rows and columns from the employees table.

select\*from employee;

2. Retrieve only the name and salary of all employees from the employees table.

select name,salary from employee;

3. Write a query to find all employees whose salary is greater than 50,000.ee

select\*from employee where salary>30000;

4. List all employees who joined the company in the year 2020.

select\*from employee where year(doj)=2024;

5. Retrieve the details of employees whose names start with the letter 'A'.

select\*from employee where name like 'c%';

6. Write a query to calculate the average salary of all employees.

select avg(salary) as average\_salary\_of\_employees from employee;

7. Find the total number of employees in the company.

select count(\*) as total\_no\_of\_employee from employee;

8. Write a query to find the highest salary in the employees table.

select max(salary) as highest\_salary from employee;

9. Calculate the total salary paid by the company for all employees.

select sum(salary) as total\_salary from employee;

10. Find the count of employees in each department.

select count(\*) from employee group by dept;

11. Write a query to retrieve employee names along with their department names (using employees and departments tables).

SELECT e.name AS employee\_name, d.dept\_name

FROM employee e

JOIN department d ON e.dept\_id = d.D\_Id;

12. List all employees who have a manager (self-join on employees table).

SELECT e1.name AS employee\_name, e2.name AS manager\_name

FROM employee e1

JOIN employee e2 ON e1.manager\_id = e2.emp\_id;

13. Find the names of employees who are working on multiple projects (using employees and projects tables).

SELECT e.name

FROM employee e

JOIN project\_employee pe ON e.emp\_id = pe.emp\_id

GROUP BY e.name

HAVING COUNT(pe.project\_id) > 1;

14. Write a query to display all projects and the employees assigned to them.

SELECT p.project\_name, e.name AS employee\_name

FROM project p

JOIN project\_employee pe ON p.project\_id = pe.project\_id

JOIN employee e ON pe.emp\_id = e.emp\_id;

15. Retrieve the names of employees who do not belong to any department.

SELECT name

FROM employee

WHERE dept\_id IS NULL;

16. Write a query to find the employees with the second-highest salary.

select\*from employee order by salary desc limit 1 offset 1;

17. Retrieve the names of employees whose salary is above the department average salary.

select name from employee where salary > (select avg(salary) from employee);

18. Find employees who earn more than the average salary of the entire company.

select dept,count(\*) as num\_of\_employee from employee group by dept;

19. Write a query to find the department with the highest number of employees.

select \* from employee where city='chennai';

20. List all employees who work in a department located in 'New York'.

21. Write a query to find employees who work in either the 'HR' or 'Finance' department.

select name from employee where dept='HR' or dept='ES';

22. Retrieve the names of employees who are working on both Project A and Project B.

select name from employee where project = 'A' and project = 'B';

23. Find employees who are not assigned to any project.

select \* from employee where projectId is null;

24. Write a query to get all unique job titles across all departments.

select distinct dept from employee;

25. Combine two tables (employees and former\_employees) and remove duplicates.

select\*from employee union select\*from former\_employee;

26. Write a query to add a new employee to the employees table.

insert into employee values(12305,'Ravi','HR','Pudukottai',45000,'2001-12-01');

27. Update the salary of all employees in the 'IT' department by 10%.

update employee set salary = salary\*1.10 where dept='Insurance';

28. Delete all employees who have not worked for more than 5 years.

delete from employee where year(curdate())-year(doj) <=5;

29. Create a new table departments\_backup with the same structure as the departments table.

create table department(D\_Id int primary key,Dept\_name varchar(20));

30. Drop the temporary\_data table from the database.

drop table department;

31. Add a primary key to the employees table.

Alter table employee add primary key(EmpId);

32. Write a query to create a foreign key between employees and departments tables.

Alter table employee add foreign key(dept\_id) references department(D\_Id);

33. Add a unique constraint to the email column in the employees table.

Alter table employee add unique (email);

34. Write a query to check all constraints applied on the employees table.

show create table employee;

35. Remove the NOT NULL constraint from the phone\_number column in the employees table.

Alter table employee modify salary int null;