LabNo.2 DBs

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DATABASE SYSTEM

LAB No: 02

***Objective of Lab No. 2**:*

After performing lab 2, students will be able to:

o WHERE clause o Operators in the WHERE clause

o Use Arithmetic operator

o Use comparison operators

o Use Logical Operators

o Using the SQL Operator

o Understanding operator precedence

1.Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose SALARY is less than $3000.

Answer: select employee_id , first_name , salary
from employees
where salary < 3000;

2. Write a query to display FIRST_NAME, LASTNAME of all employees whose first name starts with letter 'A'.

Answer: select first_name , last_name from employees

where first_name like "a%";

3. Write a query to display FIRST_NAME, JOB_ID, DEPARTMENT_ID of employees who are either PU_CLERK or belongs to MANAGER_ID = 114.

Answer: select first_name , job_id, department_id from employees

where job_id = "pu_clerk" or manager_id = 114;

4. Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose salaries lies in the range of $1500 to $3000;

Answer: select employee_id , first_name , salary from employees

where salary >= 1500 and salary <=3000;

OR

select employee_id , first_name , salary from employees

-> where salary between 1500 and 3000;

5. Write a query to display first names of all employees that end with alphabet 'N'.

Answer: select first_name from employees

where first_name like "%N";

6. Write a query to display FIRST_NAME, JOB_ID, DEPARTMENT_ID of employees who are not PU_CLERK.

Answer: select first_name , job_id , department_id from employees

where job_id != "pu_clerk";

7. Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of those employees who do not have salaries of $3300, $3200, $2200.

Answer: select employee_id , first_name , salary from employees

-> where salary not in (2200, 3200 , 3300);

8. Write a query to display names of those employees whose first name starts with 'A' and ends with 'N'.

Answer: select first_name , last_name from employees

where first_name like "A%N";

9. Write a query to display the list of employee names that have letters 'LA' in their names.

Answer: select first_name , last_name from employees

where first_name like "%LA%" or last_name like "%LA%";

10. Write a query to display the EMPLOYEE_ID, FIRST_NAME, and SALARY of employees. In that, the highest paid employee should display first and lowest paid should display last.

Answer: select employee_id , first_name , salary from employees order by salary desc;

11. Write a query to display FIRST_NAME of employees that have "a" in the second position.

Answer: select first_name from employees

where first_name like "_a%";

12. Write a query to display EMPLOYEE_ID, FIRST_NAME, and SALARY of employees whose salaries do not lies in the range of $1500 to $3000;

Answer: select employee_id , first_name , salary from employees

where salary not between 1500 and 3000;

13. Write a query to display the LAST_NAME of employees whose LAST_NAME have exactly 6 characters.

Answer: select last_name from employees where last_name like "_____";

14. Write a query to display FIRST_NAME, LAST_NAME and DEPARTMENT_ID of all employees in departments 30 or 100 in ascending order.

Answer: select first_name , last_name , department_id from employees

where department_id in(30,100) order by department_id asc;

15. Write a query to display 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.

Answer: select employee_id , first_name , salary from employees

where salary not between 10000 and 15000 and department_id in(30,100);

16. Write a query to display FIRST_NAME, LAST_NAME and HIRE_DATE for all employees who were hired in 1987.

Answer: select first_name , last_name , hire_date from employees where hire_date like "1987";

17. Write a query to display the LAST_NAME of employees whose LAST_NAME have exactly 6 characters.

Answer: select last_name from employees where last_name like "_____";

18. Write a query to display FIRST_NAME, SALARY and PF (15% of salary) of all employees.

Answer: select first_name , salary ,(salary * 0.15) as PF from employees;

19. Write a query to display FIRST_NAME, SALARY and commission amount (% of salary) of all employees.

Answer: SELECT

FIRST_NAME,

SALARY,

IFNULL(COMMISSION_PCT * 100, 0) AS COMMISSION_PERCENTAGE

FROM employees;

20. Write a query to display FIRST_NAME, SALARY and NET_SALARY after 500 deduction from salary of all employees;

Answer: select first_name , salary ,(salary -500) as Net_salary from employees;