Database System (Lab)

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Class: BS CS-II (Section A)

Date: 29th January 2025

Task 1:

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

mysql> select employee_id, first_name, salary from employees where salary<3000;

Task 2:

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

mysql> select first_name, last_name from employees where first_name like 'a%';

Task 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.

mysql> select first_name, job_id, department_id from employees where job_id = 'pu_clerk' or manager_id=114;

Task 4:

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

mysql> select employee_id, first_name, salary from employees where salary between 1500 and 3000;

Task 5:

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

mysql> select first_name from employees where first_name like '%n';

Task 6:

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

mysql> select first_name, job_id, department_id from employees where not job_id='pu_clerk';

Task 7:

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

mysql> select employee_id, first_name, salary from employees where not salary in (3300, 3200, 2200);

Task 8:

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

mysql> select first_name, last_name from employees where first_name like 'A%n';

Task 9:

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

mysql> select first_name, last_name from employees where first_name like '%la%' or last_name like '%la%';

Task 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.

mysql> select employee_id, first_name, salary from employees order by salary desc;

Task 11:

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

mysql> select first_name from employees where first_name like '_a%';

Task 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;

mysql> select employee_id, first_name, salary from employees where not salary between 1500 and 3000;

Task 13:

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

mysql> select last_name from employees where last_name like '_____';

Task 14:

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

mysql> select first_name, last_name, department_id from employees where department_id=30 or department_id = 100 order by department_id asc;

Task 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.

mysql> select first_name, last_name, salary from employees where not salary between 10000 and 15000 and department_id=30 or department_id=100;

Task 16:

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

mysql> select hire_date from employees where hire_date like 'i987%';

Task 17:

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

mysql> select last_name from employees where last_name like '_____';

Task 18:

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

mysql> select first_name,salary,(salary*15/100) as PF from employees;

Task 19:

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

mysql> select first_name,salary,commission_pct from employees;

Task 20:

Write a query to display FIRST_NAME, SALARY and NET_SALARY after 500 deductions from salary of all employees

mysql> select first_name, salary, salary-500 as "Net salary" from employees;