

Restricting and Sorting Data

EXPERIMENT 5

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1. Create a query to display the last name and salary of employees earning more than 12000.

```
SELECT last_name, salary  
FROM employees  
WHERE salary > 12000;
```

2. Create a query to display the employee last name and department number for employee number 176.

```
SELECT last_name, department_id  
FROM employees  
WHERE employee_id = 176;
```

3. Create a query to display the last name and salary of employees whose salary is not in the range of 5000 and 12000.

```
SELECT last_name, salary
FROM employees
WHERE salary NOT BETWEEN 5000 AND 12000;
```

4. Display the employee last name, job ID, and start date of employees hired between February 20, 1998 and May 1, 1998. Order the query in ascending order by start date.

```
SELECT last_name, job_id, hire_date
FROM employees
WHERE hire_date BETWEEN '20-FEB-1998' AND '01-MAY-1998'
ORDER BY hire_date;
```

5. Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name.

```
SELECT last_name, department_id
FROM employees
WHERE department_id IN (20, 50)
ORDER BY last_name;
```

6. Display the last name and salary of all employees who earn between 5000 and 12000 and are in departments 20 and 50 in alphabetical order by name. Label the columns EMPLOYEE, MONTHLY SALARY respectively.

```
SELECT last_name AS "EMPLOYEE", salary AS "MONTHLY  
SALARY"  
FROM employees  
WHERE salary BETWEEN 5000 AND 12000  
AND department_id IN (20, 50)  
ORDER BY last_name;
```

7. Display the last name and hire date of every employee who was hired in 1994.

```
SELECT last_name, hire_date  
FROM employees  
WHERE hire_date LIKE '%94';  
-- OR using EXTRACT function (more accurate)  
SELECT last_name, hire_date  
FROM employees  
WHERE EXTRACT(YEAR FROM hire_date) = 1994;
```

8. Display the last name and job title of all employees who do not have a manager.

```
SELECT last_name, job_id  
FROM employees  
WHERE manager_id IS NULL;
```

9. Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.

```
SELECT last_name, salary, commission_pct  
FROM employees  
WHERE commission_pct IS NOT NULL  
ORDER BY salary DESC, commission_pct DESC;
```

10. Display the last name of all employees where the third letter of the name is 'a'.

```
SELECT last_name  
FROM employees  
WHERE last_name LIKE '__a%';
```

11. Display the last name of all employees who have an 'a' and an 'e' in their last name.

```
SELECT last_name  
FROM employees  
WHERE last_name LIKE '%a%' AND last_name LIKE '%e%';
```

12. Display the last name and job and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to 2500, 3500 or 7000.

```
SELECT last_name, job_id, salary  
FROM employees  
WHERE job_id IN ('SA_REP', 'ST_CLERK')  
AND salary NOT IN (2500, 3500, 7000);
```

13. Display the last name, salary, and commission for all employees whose commission amount is 20%.

```
SELECT last_name, salary, commission_pct  
FROM employees  
WHERE commission_pct = 0.20;
```