

RESTRICTING AND SORTING DATA

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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;
```

LAST_NAME	SALARY
Smith	13000
kaviya	13000
moni	13000

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;
```

LAST_NAME	DEPARTMENT_NUMBER
kaviya	20

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

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

LAST_NAME	SALARY
Smith	13000
Williams	4000
Jones	2500
kaviya	13000
moni	13000

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.(hints: between)

```
SELECT last_name, job_id, hire_date
FROM employees
WHERE hire_date BETWEEN '1998-02-20' AND '1998-05-01' ORDER BY
hire_date ASC;
```

LAST_NAME	JOB_ID	HIRE_DATE
Brown	Analyst	04/08/0020
Johnson	Stock Clerk	05/05/0022
Williams	Manager	01/07/0023
Smith	Sales Representative	03/01/0024

5.Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name.(hints: in, orderby)

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

LAST_NAME	DEPARTMENT_NUMBER
Johnson	50
Jones	20
Smith	20
kaviya	20

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.(hints: between, in)

```
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 ASC;
```

EMPLOYEE	MONTHLY_SALARY
Johnson	8000

7.Display the last name and hire date of every employee who was hired in 1994.(hints: like)

```
SELECT last_name, hire_date
FROM employ
WHERE hire_date BETWEEN '01-01-1998' AND '12-31-1998';
```

LAST_NAME	HIRE_DATE
moni	05/01/1998
dinesh	02/20/1998

8.Display the last name and job title of all employees who do not have a manager.(hints: is null)

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

LAST_NAME	JOB_ID
Smith	Sales Representative
kaviya	Sales Representative
moni	Sales Representative

3 rows returned in 0.00 seconds [Down](#)

9.Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.(hints: is not null,orderby)

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

LAST_NAME	SALARY	COMMISSION
Smith	13000	200
kaviya	13000	200
moni	13000	200
Brown	6000	100
Jones	2500	150

10.Display the last name of all employees where the third letter of the name is a.(hints:like)

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



The screenshot shows a SQL query execution interface. At the top, there are two tabs: 'Results' and 'Explain'. The 'Results' tab is selected and highlighted. Below the tabs, the text 'no data found' is displayed, indicating that the query returned no results.

11.Display the last name of all employees who have an a and an e in their last name.(hints: like)

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



The screenshot shows a SQL query execution interface. At the top, there are two tabs: 'Results' and 'Explain'. The 'Results' tab is selected and highlighted. Below the tabs, the text 'no data found' is displayed, indicating that the query returned no results.

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.(hints:in,not in)

```
SELECT last_name, job_id, salary
FROM employees
WHERE job_id IN ('Sales Representative', 'Stock Clerk')
AND salary NOT IN (2500, 3500, 7000);
```

LAST_NAME	JOB_ID	SALARY
Smith	Sales Representative	13000
Johnson	Stock Clerk	8000
kaviya	Sales Representative	13000
moni	Sales Representative	13000
dinesh	Stock Clerk	8000