EX NO:6   **RESTRICTING AND SORTING DATA**

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

```
CREATE TABLE employees (
    employee_id INT PRIMARY KEY,
    last_name VARCHAR(50),
    salary DECIMAL(10, 2),
    department_id INT,
    job_id VARCHAR(50),
    hire_date DATE,
    manager_id INT,
    commission_pct DECIMAL(5, 2)
);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES (101, 'John', 15000, 20, 'Manager', '10-03-1998', NULL, NULL);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES (102, 'Jane', 10000, 50, 'Sales Representative', '02-25-1998', 101, 0.05);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES (103, 'Brown', 8000, 20, 'Stock Clerk', '10-23-1994', 101, NULL);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES(104, 'Witson', 20000, 50, 'Manager', '11-11-1997', NULL, 0.10);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES(105, 'Jith', 3000, 20, 'Sales Representative', '05-05-1998', 101, 0.03);

INSERT INTO employees (employee_id, last_name, salary, department_id, job_id,
hire_date, manager_id, commission_pct)
VALUES(176, 'Patel', 7000, 20, 'Sales Representative', '10-01-1998', 101, 0.02);

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

LAST_NAME	SALARY
John	15000
Witson	20000

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_ID
Patel	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
John	15000
Witson	20000
Jith	3000

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 '02-20-1998' AND '05-01-1998' ORDER BY hire_date ASC;

LAST_NAME	JOB_ID	HIRE_DATE
Jane	Sales Representative	02/25/1998

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_ID
Brown	20
Jane	50
Jith	20
John	20
Patel	20
Witson	50

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
Brown	8000
Jane	10000
Patel	7000

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

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

LAST_NAME	HIRE_DATE
John	10/03/1998
Jane	02/25/1998
Jith	05/05/1998
Patel	10/01/1998

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

SELECT last_name, job_id FROM employees WHERE manager_id IS NULL;

LAST_NAME	JOB_ID
John	Manager
Witson	Manager

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 nul,orderby)

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

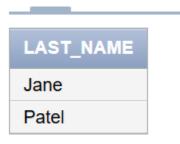| LAST_NAME	SALARY	COMMISSION_PCT
Witson	20000	.1
Jane	10000	.05
Patel	7000	.02
Jith	3000	.03

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%';

no data found

11.Display the last name of all employees who have an a and an *e* in their name.(hintlike)

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

LAST_NAME
Jane
Patel

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
Jane	Sales Representative	10000
Brown	Stock Clerk	8000
Jith	Sales Representative	3000