

Ex.No: 6	RESTRICTING AND SORTING DATA
Date: 20/8/24	

After the completion of this exercise, the students will be able to do the following:

- Limit the rows retrieved by the queries
- Sort the rows retrieved by the queries
- 

### Limiting the Rows selected

- Using WHERE clause
- Alias cannot be used in WHERE clause

### Syntax

SELECT-----  
FROM-----  
WHERE condition;

### Example:

SELECT employee\_id, last\_name, job\_id, department\_id FROM employees WHERE department\_id=90;

### Character strings and Dates

Character strings and date values are enclosed in single quotation marks.

Character values are case sensitive and date values are format sensitive.

### Example:

SELECT employee\_id, last\_name, job\_id, department\_id FROM employees WHERE last\_name='WHALEN';

### Comparison Conditions

All relational operators can be used. (=, >, >=, <, <=, <>, !=)

### Example:

SELECT last\_name, salary

```
SELECT last_name, salary*12 annsal, job_id, department_id, hire_date
FROM employees
ORDER BY annsal;
```

Example:4

Sorting by Multiple columns

```
SELECT last_name, salary, job_id, department_id, hire_date
FROM employees
ORDER BY department_id, salary DESC;
```

Find the Solution for the following:

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. (hints: not between )

```
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. (hints: between)

```
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.(hints: in, orderby)

```
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.(hints: between, in)

```
Select last-name "Employee", salary "Monthly  
Salary" From employees  
where salary Between 5000 and 12000  
And department-id in (20, 50);
```

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 like '1994';
```

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;
```



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;

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%';

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%';

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 ('SA-REP', 'ST-CLERK') AND Salary  
not in (2500, 3500, 7000);

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	