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Ex.No.: 6	RESTRICTING AND SORTING DATA
Date: 20/08/2014	

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 used in WHERE clause

### **Syntax**

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

Example:

SELECT employee\_id,last\_name, job\_id, deparment\_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.

SELECT employee\_id,last\_name, job\_id, deparment\_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

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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-rame, salary FROM employees WHERE Salary > 12000;

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

SELECT Lost\_nome, desportment -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-hame, job-id, hire-date

FROM employees

WHERE hire-date BETWEEN 120-FEB-1993' AND

"OI"-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-nome, department id FROM employees

WHERE department -id IN (20,50)

ORDER BY last-home;

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 employers

WHERE Sabby BETWEEN 5000 AND 12000

ADD 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.(hints: like)

SELECT last-name, hire-date

FROM employers

WHERE hised-data LINE 61994.1.1;

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

SELECT tost-name, job-id

FROM employees

WHERE Morages\_EdIS NULL;

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 lost-name, Salady, commission. Tet

FROM employous

WHERE commission PC+ IS NOT NOLL

ORDER BY Salary DESC, Commission Tot DESC; Display the last name of all employees where the third letter of the name is a. (hints: like)

10.

SELECT last-name

From employees

WHERE last name LIKE !\_ 'ay.";

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

SELECT Lost-name

FROM employers

WHERE Last \_ name LIKE 6% a % 2 % 5 F last \_ howo LTME

12. Display the last name and job and salary for all employees whose job is sales

13. The property of stock clerk and whose salary is not equal to 2500, 3500 or 7000. (hints:in, not in)

SELECT last-nome, job-lid, Salvidy FROM RMPLOYORS

WHERE job\_idIN(\*SA\_RER), \*ST\_CLERK?) AND Salaby
on Procedure Marks awarded NOT IN(2500, 3500, 7000);
nery(5)

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Marks awarded
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