Ex.No.: 6	
Date:	RESTRICTING AND SORTING DATA

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, 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, balary FROM employells

WHERE Lalary > 12000;

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

SELF CT last-name, department-id FROM worldylls

WHFRF 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 imployees

WHERE Soloty 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;

Display the last name and department number of all employees in departments 20 and 50 SELECT last-name, deportment-id from employees.
WHERE department-id INC20, 50) ORDER BY last-name;

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 SELECT last_name AS EMPLOYEE, salary AS "MONTHLY SALARY respectively. (hints: between, in)

SALARY" from employees with ERE salary BETWEEN

5000 AND 12000 AND department - id IN(20, 50) ORDER BY last-name;

Display the last name and hire date of every employee who was hired in 1994.(hints: like) SELECT last-name, hire-date FROM employees WAERE hire-date LIKE 1994 2.

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

SELECT last-name, job-id from employels WHERE managel-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, solary, commission - pot from employees WHERE commission - pot 23 NOT NO LL ORDER BY salary DESC, commission - pot 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 the third letter of the name is a. (hints:like)

LIKE! -- a /. ';

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

SELECT Lost - name from employees WHERE least - neme

SELECT Lost - name from employees WHERE least - neme

LIKE 1-1-a-1-e' OR last - name LIKE 1-1-e-1-a';

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, for-id, salary from employees whose job is sales

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(2500, 3500 or 7000. (hints:in, not in)

SELECT last-name, for-Id, salary from employees whose job is sales

(2500, 3500 or 7000. (hints:in, not in)

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	Lp.
Total (15)	14
Faculty Signature	A.