AIM: To limit and sort the retrived data. Date: 1/9/20 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, deparment id FROM employees

OR job_id='ad_pres' AND salary>15000;

Example:2

SELECT employee_id, last_name, salary, job_id FROM employees WHERE (job_id='sa_rep' OR job_id='ad_pres') AND salary>15000;

Sorting the rows

Using ORDER BY Clause

ASC-Ascending Order, Default

DESC-Descending order Example:1

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

Example:2

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

Example:3 Sorting by column alias

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:

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

Select 1_ name, natury from employees WHERE salary >12 000;

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

Select L_ Name, department-id FROMemployees WHERE employee - id=176;

 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 employee

WHERE solary 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 l_name, job-ix, hire-date FROM employees WHERE hire-date Between '20-FEB-1948' AND 101-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 l-name, department-id FROM amployees WHERE department-id IN(20,500 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 EMPLOYEE, MONTHLY SALARY respectively. (hints: between, in)

Select l-name AS Employee, solary AS "MONTHLY SALARY" FROM employees WHERE salary between 5000 AND 12000 AND department-id in 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, Line-date FROM employees
WHERE Line-date .LIKE '1994.1.1;

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

Select last - Name, job - id FROM employees WHERE manager - id 75 NVLL;

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 l-Name, Nalary, Commissions. (Hints: Is NOT HULL ORDER BY
NOTONILL ORDER BY
Nolary DESC, Commission - Let DESC;

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

Select l-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 l-nome FROM employees WHERE L-nome like '1. a 1.e 1. OR Bost-nome like 1.e 1.a.1.";

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 L_rame, job-id, salary FROM employees
WHERE . job-id IN('SA-REP', 'ST-CLERK') AND
SALARY NOT IN(2500, 3500, 7000)

 Display the last name, salary, and commission for all employees whose commission amount is 20% (hints: use predicate logic)

Select l-rame, ralary, commission-het FROM analogos
WHERE commission-het= 0.20;

1) output

last - Name	solary
Prachanth	2400.00
Kumar	17000.00
vijay	17000.00

2) output:

l-Name	department id
Pohith	60

3) output:

last rame	salary
Kumar	24000.00
Prayarth	17000.00
Vijay	17000.00

4) output:

l-rame	sob-ca	hire-ente
Klimer	AC-Account	21-May-1997
Vijay	AC-MOR	07-AN-1998
Robits	SA-REP	24-Apr-199

5) output:

l- Name	dept-ci
Abel	50
Ande	30
Gietz	20
Higgins	50

6) output:

Abel	Monthly Solary
Abel	11000.00
Ande	6000.00
brietz	6000.00

7) output:

l-Name	hire - date
Rusell	01-007-1994
Kachlar	21-SEP-1994
Patabanda	12 - MAR-1994

8) output:

l-Name	job-id
Kumar	AD-PRES
Polith	
Brosharth	AD-VP AD-VP

9) l-name salary commission-pet kurnar 111000.00 0.10 Polith 105000.00 0.20 Sai 205000.00 0.30

10)

l-Nane

Dravid

Prasanth

Prayith

ti) output: 1- mane Allen job-id Solory Grant SA-REP 18000.00 Patabada ST_CLERK 6000.00 1 9V-GA

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

RESULT:

Three the rows are retrieved by limiting and sorting.

Pracice Questions

Sorting Rows

 In the example below, assign the employee_id column the alias of "Number." Complete the SQL statement to order the result set by the column alias.

SELECT employee_id, first_name, last_name FROM employees;

Select employee - id As Number - first - number, but - name from employees ORDER BY Number;

2. Create a query that will return all the DJs on Demand CD titles ordered by year with titles in alphabetical order by year.

select title, year from ys-on-demand ORDERBY year, title:

3. Order the DJs on Demand songs by descending title. Use the alias "Our Collection" for the song

select mong-title As "our collection" FROM djs- on-demand - rough ORDER BY SONG-title DESC.

4. Write a SQL statement using the ORDER BY clause that could retrieve the information needed.

select * FROM employees ORDER BY last-rame, first - name;