EX.NO:6
DATE:11.09.2024

RESTRICTING AND SORTING DATA

Find the Solution for the following:

EMPLOYEES TABLE

NAME	NULL?	TYPE
Employee_id	Not null	Number(6)
First_Name		Varchar(20)
Last_Name	Not null	Varchar(25)
Email	Not null	Varchar(25)
Phone_Number		Varchar(20)
Hire_date	Not null	Date
Job_id	Not null	Varchar(10)
Salary		Number(8,2)
Commission_pct		Number(2,2)
Manager_id		Number(6)
Department_id		Number(4)

CREATE TABLE Employees (
   Employee_id   NUMBER(6)   NOT NULL,
   First_Name   VARCHAR(20),
   Last_Name   VARCHAR(25) NOT NULL,
   Email   VARCHAR(25) NOT NULL,
   Phone_Number   VARCHAR(20),
   Hire_date   DATE   NOT NULL,
   Job_id   VARCHAR(10) NOT NULL,
   Salary   NUMBER(8,2),
   Commission_pct NUMBER(2,2),
   Manager_id   NUMBER(6),
   Department_id NUMBER(4)
);

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;
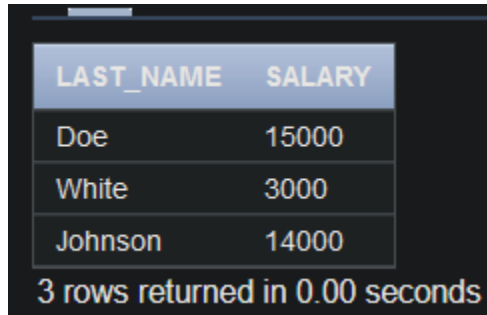
3. Create a query to display the last name and salary of employees whose salary is not in the range of 5000 and 12000. (hints: not between)

SELECT Last_Name, Salary
FROM Employees
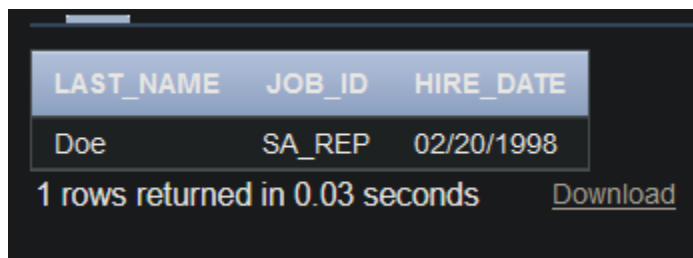**WHERE Salary NOT BETWEEN 5000 AND 12000;**

LAST_NAME	SALARY
Doe	15000
White	3000
Johnson	14000

3 rows returned in 0.00 seconds

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 TO_DATE('20-FEB-1998', 'DD-MON-YYYY') AND TO_DATE('01-MAY-1998', 'DD-MON-YYYY')
ORDER BY Hire_date ASC;

LAST_NAME	JOB_ID	HIRE_DATE
Doe	SA_REP	02/20/1998

1 rows returned in 0.03 seconds   Download

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	50
Doe	20
Green	20
Smith	50
White	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
Green	12000
Smith	9500

3 rows returned in 0.00 seconds

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';

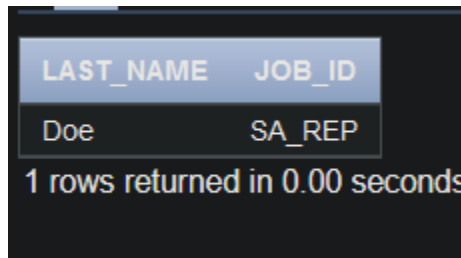| LAST_NAME	HIRE_DATE
Smith	04/25/1994

1 rows returned in 0.01 seconds

8. Display the last name and job title of all employees who do not have a manager.(hints: is null)
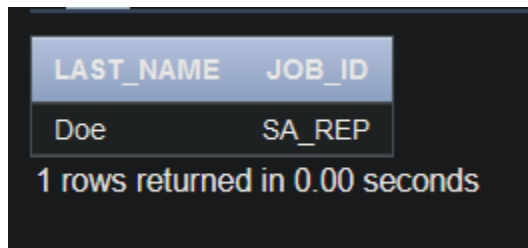**SELECT Last_Name, Job_id**
FROM Employees

WHERE Manager_id IS NULL;

LAST_NAME	JOB_ID
Doe	SA_REP

1 rows returned in 0.00 seconds

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;

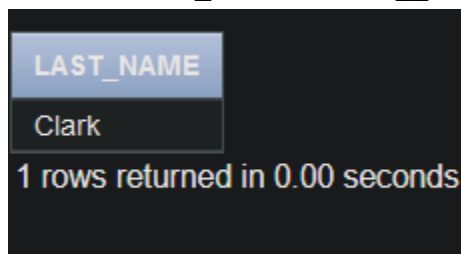| LAST_NAME	JOB_ID
Doe	SA_REP

1 rows returned in 0.00 seconds

10. Display the last name of all employees where the third letter of the name is a.(hints:like)
SELECT Last_Name
FROM Employees
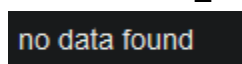**WHERE Last_Name LIKE '__a%';**

LAST_NAME
Clark

1 rows returned in 0.00 seconds

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%';

no data found

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);

LAST_NAME	JOB_ID	SALARY
Doe	SA_REP	15000
White	ST_CLERK	3000
Johnson	SA_REP	14000

3 rows returned in 0.00 seconds   Download