EXERCISE 4

21-09-2020

Create a table called EMP with the following structure.

Name	Type
EMPLOYEE_ID	INT
FIRST_NAME	VARCHAR
LAST_NAME	VARCHAR
EMAIL	VARCHAR
PHONE_NUMBER	VARCHAR
HIRE_DATE	DATE
JOB_ID	VARCHAR (like IT_PROG, AD_PRES)
COMMISSION_PCT	FLOAT
MANAGER_ID	INT
DEPARTMENT_ID	INT

IT, ST *specifies a particular department name*

Department names should be *Administration, Marketing, Purchasing, Human Resources, Shipping, IT, Public Relations, Sales, Executive, Finance, Accounting, Treasury, Corporate Tax, Control And Credit, Shareholder Services, Manufacturing, Construction, Contracting, IT Support, IT Helpdesk, Government Sales, Retail Sales, Recruiting, Payroll*

Create dept table called DEPT with the following structure.

Name	Type
DEPARTMENT_ID	INT
DEPARTMENT_NAME	VARCHAR
MANAGER_ID	INT
LOCATION_ID	INT

Create a location table called LOCA with the following structure.

Name	Type

LOCATION_ID	**INT**
STREET_ADDRESS	**VARCHAR**
POSTAL_CODE	**INT**
CITY	**VARCHAR**
STATA_PROVINCE	**VARCHAR**
COUNTRY_ID	**INT**

1. Write a query to display the name (first name and last name) for those employees who gets more salary than the employee whose ID is **163**.

2. Write a query to display the name (first name and last name), salary, department id, job id for those employees who works in the same designation as the employee works whose id is **169.**

3. Write a query to display the name (first name and last name), salary, department id for those employees who earn such amount of salary which is the smallest salary of any of the departments. ***(use min)***

4. Write a query to display the employee id, employee name (first name and last name) for all employees who earn more than the average salary. ***(use Avg)***

5. Write a query to display the employee name (first name and last name), employee id and salary of all employees who report to **Arun**.

6. Write a query to display the department number, name (first name and last name), job and department name for all employees in the **Finance** department.

7. Write a query to display all the information of an employee whose salary and reporting person id is **3000** and **121** respectively.

8. Display all the information of an employee whose id is any of the number **134, 159** and **183**. ***(use In)***

9. Write a query to display all the information of the employees whose salary is within the range **1000 and 3000**. ***(use Between)***

10. Write a query to display all the information of the employees whose salary is within the range of smallest salary and **2500.** ***(use Between & min)***

11. Write a query to display all the information of the employees who does not work in those departments where some employees work whose manager id within the range **100 and 200.** ***(use Not in & Between)***

12. Write a query to display all the information for those employees whose id is any id who earn the second highest salary. ***(use In & Max)***

13. Write a query to display the employee name (first name and last name) and hire date for all employees in the same department as **Clara.** Exclude **Clara.**

14. Write a query to display the employee number and name (first name and last name) for all employees who work in a department with any employee whose name contains a **T.** ***(use In)***

15. Write a query to display the employee number, name (first name and last name), and salary for all employees who earn more than the average salary and who work in a department with any employee with a **J** in their name. ***(use avg & In)***

16. Display the employee name (first name and last name), employee id, and job title for all employees whose department location is **Toronto**.

17. Write a query to display the employee number, name (first name and last name) and job title for all employees whose salary is smaller than any salary of those employees whose job title is **IT_PROG.** ***(use any)***

18. Write a query to display the employee number, name (first name and last name) and job title for all employees whose salary is smaller than any salary of those employees whose job title is **IT_PROG.**. Exclude Job title **IT_PROG.** ***(use any)***

19. Write a query to display the employee number, name (first name and last name) and job title for all employees whose salary is more than any salary of those employees whose job title is **IT_PROG**. Exclude job title **IT_PROG**. ***(use all)***

20. Write a query to display the employee number, name (first name and last name) and job title for all employees whose salary is more than any average salary of any department. ***(use all & avg)***

21. Write a query in SQL to display all the information about those employees who earn second lowest salary of all the employees. ***(use distinct)***

22. Write a query in SQL to display the city of the employee whose ID 134 and works there.

23. Write a query in SQL to display the first and last name, salary and department ID for those employees whose department is located in the city London.

24. Write a query in SQL to display the first and last name, salary, and department ID for all those employees who earn more than the average salary and arrange the list in descending order on salary. ***(use order by)***

25. Write a query to get the details of employees who are managers. ***(use exists)***

26. Write a query which is looking for the names of all employees whose salary is greater than 50% of their department's total salary bill. ***(use Sum)***

27. Write a subquery that returns a set of rows to find all departments that do actually have one or more employees assigned to them. ***(use distinct)***

28. Write a query to display the employee name (first name and last name) and department for all employees for any existence of those employees whose salary is more than 3700. ***(use exists)***

29) List department id, a department name for all the departments in which there are no employees in the department. ***(use Not exists)***