Homework

Answer the questions by SQL.

1. List all the employees whose salaries are more than 3000.

* SELECT \* FROM EMP WHERE SAL > 3000;

1. List all the employees whose names begin with “S”.

* SELECT \* FROM EMP WHERE ENAME LIKE 'S%';

1. List the employees whose name is “SMITH”, “ALLEN” or “FORD”.

* SELECT \* FROM EMP WHERE ENAME IN ('SMITH','ALLEN','FORD');

1. List all the employees whose department is “SALES”.

* SELECT \* FROM EMP WHERE DEPTNO = (SELECT DEPTNO FROM DEPT WHERE DNAME = 'SALES');

1. To get the value of average, biggest, smallest and total of each department, and order by department number.

* SELECT DEPTNO, AVG(SAL) AS AVERAGE, MAX(SAL) AS BIGGEST, MIN(SAL) AS SMALLEST FROM EMP GROUP BY DEPTNO;

1. To get the total number of employees, whose salary is more than 3000 for each department.

* SELECT COUNT(DEPTNO) AS EMPLOYEES, DEPTNO FROM EMP WHERE SAL > 3000 GROUP BY DEPTNO;

1. TO get the number of the average salary for each department, according to the department name in ascending order

* SELECT DEPT.DNAME, AVG(EMP.SAL) FROM EMP INNER JOIN DEPT ON EMP.DEPTNO = DEPT.DEPTNO GROUP BY DEPT.DNAME ORDER BY DNAME ASC;

1. employees who have the same salary in each department, list their department number, salary, and number of employees.

* SELECT E1.SAL AS SALARY, COUNT(E1.DEPTNO) AS EMPLOYEES, E1.DEPTNO FROM EMP E1, EMP E2 WHERE E1.SAL = E2.SAL AND E1.ENAME != E2.ENAME GROUP BY E1.DEPTNO, E1.SAL;

1. List the number of employees with more than 2 employees in the same department, showing the name of the Department, the name of the area, and the number of the employees in the same department

* SELECT D.DNAME, D.LOC, COUNT(E.ENAME) AS EMPLOYEES FROM EMP E INNER JOIN DEPT D ON E.DEPTNO = D.DEPTNO GROUP BY D.DEPTNO, D.DNAME, D.LOC;

1. List the name and salary of employees whose salaries is higher than the average salary of the entire firm

* SELECT ENAME, SAL FROM EMP WHERE SAL > (SELECT AVG(SAL) FROM EMP);