Homework

Answer the questions by SQL.

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

--1

SELECT \* FROM EMP WHERE SAL > 3000;

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

--2

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

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

--3

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

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

--4

SELECT \* FROM EMP WHERE DEPTNO IN(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.

--5

SELECT B.DEPTNO,B.DNAME,AVG(SAL), MAX(SAL), MIN(SAL), SUM(SAL) FROM EMP A, DEPT B WHERE A.DEPTNO = B.DEPTNO GROUP BY B.DEPTNO,B.DNAME ORDER BY B.DEPTNO

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

--6

SELECT DEPT.DNAME,COUNT(SAL) FROM EMP A, DEPT WHERE SAL > 3000 AND A.DEPTNO = DEPT.DEPTNO GROUP BY DEPT.DNAME;

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

--7

SELECT B.DNAME, AVG(SAL) FROM EMP A, DEPT B WHERE A.DEPTNO = B.DEPTNO GROUP BY B.DNAME ORDER BY AVG(SAL);

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

--8

SELECT EMP.DEPTNO, EMP.SAL, COUNT(EMP.DEPTNO) FROM EMP , EMP B WHERE EMP.SAL = B.SAL AND EMP.DEPTNO = B.DEPTNO AND EMP.ENAME != B.ENAME GROUP BY EMP.DEPTNO,EMP.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

--9

SELECT B.DNAME,B.LOC, COUNT(B.DNAME) FROM EMP A, DEPT B WHERE A.DEPTNO = B.DEPTNO HAVING COUNT (A.EMPNO) > 1 GROUP BY (B.DNAME,B.LOC);

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

--10

SELECT \* FROM EMP WHERE SAL > (SELECT AVG(SAL) FROM EMP);