MySQL34道作业题

1、取得每个部门最高薪水的人员名称

+-------+--------+---------+

| ename | deptno | maxsal |

+-------+--------+---------+

| BLAKE | 30 | 2850.00 |

| SCOTT | 20 | 3000.00 |

| KING | 10 | 5000.00 |

| FORD | 20 | 3000.00 |

+-------+--------+---------+

2、哪些人的薪水在部门的平均薪水之上

+-------+--------+-------------+

| ename | deptno | avgsal |

+-------+--------+-------------+

| ALLEN | 30 | 1566.666667 |

| JONES | 20 | 2175.000000 |

| BLAKE | 30 | 1566.666667 |

| SCOTT | 20 | 2175.000000 |

| KING | 10 | 2916.666667 |

| FORD | 20 | 2175.000000 |

+-------+--------+-------------+

3、取得部门中（所有人的）平均的薪水等级

求的是部门薪资水平等级的平均值不是薪资水平平均值的等级

+-------+---------+--------+-------+----------+

| ename | sal | deptno | grade | avggrade |

+-------+---------+--------+-------+----------+

| CLARK | 2450.00 | 10 | 4 | 3.6667 |

| SMITH | 800.00 | 20 | 1 | 2.8000 |

| ALLEN | 1600.00 | 30 | 3 | 2.5000 |

+-------+---------+--------+-------+----------+

4、不准用组函数（Max ），取得最高薪水

+-------+---------+

| ename | sal |

+-------+---------+

| KING | 5000.00 |

+-------+---------+

+---------+

| sal |

+---------+

| 5000.00 |

+---------+

5、取得平均薪水最高的部门的部门编号

+--------+---------------+

| deptno | max(t.avgsal) |

+--------+---------------+

| 10 | 2916.666667 |

+--------+---------------+

6、取得平均薪水最高的部门的部门名称

+------------+---------------+

| dname | max(t.avgsal) |

+------------+---------------+

| ACCOUNTING | 2916.666667 |

+------------+---------------+

7、求平均薪水的等级最低的部门的部门名称

+-------+-------------+-------+

| dname | avgsal | grade |

+-------+-------------+-------+

| SALES | 1566.666667 | 3 |

+-------+-------------+-------+

+--------+-------+---------+--------+

| DEPTNO | DNAME | LOC | deptno |

+--------+-------+---------+--------+

| 30 | SALES | CHICAGO | 30 |

+--------+-------+---------+--------+

8、取得比普通员工(员工代码没有在 mgr 字段上出现的) 的最高薪水还要高的领导人姓名

+-------+

| ename |

+-------+

| JONES |

| BLAKE |

| SCOTT |

| KING |

| FORD |

+-------+

9、取得薪水最高的前五名员工

+-------+---------+

| ename | sal |

+-------+---------+

| KING | 5000.00 |

| FORD | 3000.00 |

| SCOTT | 3000.00 |

| JONES | 2975.00 |

| BLAKE | 2850.00 |

+-------+---------+

10、取得薪水最高的第六到第十名员工

+--------+---------+

| ename | sal |

+--------+---------+

| ALLEN | 1600.00 |

| TURNER | 1500.00 |

| MARTIN | 1250.00 |

| WARD | 1250.00 |

| ADAMS | 1100.00 |

+--------+---------+

11、取得最后入职的 5 名员工

日期也可以降序，升序。

+--------+------------+

| ename | hiredate |

+--------+------------+

| ADAMS | 1987-05-23 |

| SCOTT | 1987-04-19 |

| MILLER | 1982-01-23 |

| FORD | 1981-12-03 |

| JAMES | 1981-12-03 |

+--------+------------+

12、取得每个薪水等级有多少员工

+-------+----------+

| grade | count(\*) |

+-------+----------+

| 1 | 5 |

| 2 | 2 |

| 3 | 2 |

| 4 | 4 |

| 5 | 1 |

+-------+----------+

13、面试题：

有 3 个表 S(学生表)，C（课程表），SC（学生选课表）

S（SNO，SNAME）代表（学号，姓名）

C（CNO，CNAME，CTEACHER）代表（课号，课名，教师）

SC（SNO，CNO，SCGRADE）代表（学号，课号，成绩）

问题：

1，找出没选过“黎明”老师的所有学生姓名。

2，列出 2 门以上（含2 门）不及格学生姓名及平均成绩。

3，即学过 1 号课程又学过 2 号课所有学生的姓名。

14、列出所有员工及领导的姓名

+--------+--------+

| ename | ename |

+--------+--------+

| ADAMS | ADAMS |

| ALLEN | ALLEN |

| BLAKE | BLAKE |

| CLARK | CLARK |

| FORD | FORD |

| JAMES | JAMES |

| JONES | JONES |

| KING | KING |

| MARTIN | MARTIN |

| MILLER | MILLER |

| SCOTT | SCOTT |

| SMITH | SMITH |

| TURNER | TURNER |

| WARD | WARD |

+--------+--------+

15、列出受雇日期早于其直接上级的所有员工的编号,姓名,部门名称

+-----------+------------+-----------+------------+------------+

| employess | hiredate | employers | hiredate | dname |

+-----------+------------+-----------+------------+------------+

| CLARK | 1981-06-09 | KING | 1981-11-17 | ACCOUNTING |

| SMITH | 1980-12-17 | FORD | 1981-12-03 | RESEARCH |

| JONES | 1981-04-02 | KING | 1981-11-17 | RESEARCH |

| ALLEN | 1981-02-20 | BLAKE | 1981-05-01 | SALES |

| WARD | 1981-02-22 | BLAKE | 1981-05-01 | SALES |

| BLAKE | 1981-05-01 | KING | 1981-11-17 | SALES |

+-----------+------------+-------

16、 列出部门名称和这些部门的员工信息, 同时列出那些没有员工的部门

+-------+--------+-----------+------+------------+---------+---------+--------+------------+

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO | dname |

+-------+--------+-----------+------+------------+---------+---------+--------+------------+

| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 1000.00 | NULL | 10 | ACCOUNTING |

| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 | ACCOUNTING |

| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1000.00 | NULL | 10 | ACCOUNTING |

| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 | RESEARCH |

| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 | RESEARCH |

| 7788 | SCOTT | ANALYST | 7566 | 1987-04-19 | 3000.00 | NULL | 20 | RESEARCH |

| 7876 | ADAMS | CLERK | 7788 | 1987-05-23 | 1100.00 | NULL | 20 | RESEARCH |

| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL | 20 | RESEARCH |

| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 | SALES |

| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00 | 30 | SALES |

| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 | SALES |

| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00 | NULL | 30 | SALES |

| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500.00 | 0.00 | 30 | SALES |

| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950.00 | NULL | 30 | SALES |

+-------+--------+-----------+------+------------+---------+---------+--------+------------+

17、列出至少有 5 个员工的所有部门

+----------+----------+

| SUMCOUNT | dname |

+----------+----------+

| 5 | RESEARCH |

| 6 | SALES |

+----------+----------+

+----------+

| count(\*) |

+----------+

| 5 |

| 6 |

+----------+

18、列出薪金比"SMITH" 多的所有员工信息

+--------+---------+

| ename | sal |

+--------+---------+

| ALLEN | 1600.00 |

| WARD | 1250.00 |

| JONES | 2975.00 |

| MARTIN | 1250.00 |

| BLAKE | 2850.00 |

| CLARK | 1000.00 |

| SCOTT | 3000.00 |

| KING | 5000.00 |

| TURNER | 1500.00 |

| ADAMS | 1100.00 |

| JAMES | 950.00 |

| FORD | 3000.00 |

| MILLER | 1000.00 |

+--------+---------+

19、 列出所有"CLERK"( 办事员) 的姓名及其部门名称, 部门的人数

+--------+-------+------------+--------+-----------+

| ename | job | dname | deptno | deptcount |

+--------+-------+------------+--------+-----------+

| MILLER | CLERK | ACCOUNTING | 10 | 3 |

| SMITH | CLERK | RESEARCH | 20 | 5 |

| ADAMS | CLERK | RESEARCH | 20 | 5 |

| JAMES | CLERK | SALES | 30 | 6 |

+--------+-------+------------+--------+-----------+

20、列出最低薪金大于 1500 的各种工作及从事此工作的全部雇员人数

+-----------+----------+

| job | count(\*) |

+-----------+----------+

| ANALYST | 2 |

| PRESIDENT | 1 |

+-----------+----------+

21、列出在部门"SALES"< 销售部> 工作的员工的姓名, 假定不知道销售部的部门编号.

+--------+

| ename |

+--------+

| ALLEN |

| WARD |

| MARTIN |

| BLAKE |

| TURNER |

| JAMES |

+--------+

22、列出薪金高于公司平均薪金的所有员工, 所在部门, 上级领导, 雇员的工资等级.

+-------+------------+-------+-------+

| 员工 | dname | 领导 | grade |

+-------+------------+-------+-------+

| JONES | RESEARCH | KING | 4 |

| BLAKE | SALES | KING | 4 |

| SCOTT | RESEARCH | JONES | 4 |

| KING | ACCOUNTING | NULL | 5 |

| FORD | RESEARCH | JONES | 4 |

+-------+------------+-------+-------+

23、 列出与"SCOTT" 从事相同工作的所有员工及部门名称

+-------+---------+----------+

| ename | job | dname |

+-------+---------+----------+

| FORD | ANALYST | RESEARCH |

+-------+---------+----------+

+---------+-------+----------+

| job | ename | dname |

+---------+-------+----------+

| ANALYST | SCOTT | RESEARCH |

| ANALYST | FORD | RESEARCH |

+---------+-------+----------+

24、列出薪金等于部门 30 中员工的薪金的其他员工的姓名和薪金.

25、列出薪金高于在部门 30 工作的所有员工的薪金的员工姓名和薪金. 部门名称

+-------+------------+---------+

| ename | dname | sal |

+-------+------------+---------+

| KING | ACCOUNTING | 5000.00 |

| JONES | RESEARCH | 2975.00 |

| SCOTT | RESEARCH | 3000.00 |

| FORD | RESEARCH | 3000.00 |

+-------+------------+---------+

26、列出在每个部门工作的员工数量, 平均工资和平均服务期限

+--------+--------+-------------+----------------+

| deptno | ecount | avgsal | avgservicetime |

+--------+--------+-------------+----------------+

| 10 | 3 | 2333.333333 | 39.3333 |

| 20 | 5 | 2175.000000 | 37.4000 |

| 30 | 6 | 1566.666667 | 39.6667 |

| 40 | 0 | 0.000000 | 0.0000 |

+--------+--------+-------------+----------------+

在mysql当中怎么计算两个日期的“年差”，差了多少年？

TimeStampDiff(间隔类型, 前一个日期, 后一个日期)

timestampdiff(YEAR, hiredate, now())

间隔类型：

SECOND 秒，

MINUTE 分钟，

HOUR 小时，

DAY 天，

WEEK 星期

MONTH 月，

QUARTER 季度，

YEAR 年

+--------+-------+-------------+----------+

| deptno | count | avgsal | hiredate |

+--------+-------+-------------+----------+

| 10 | 3 | 2333.333333 | 39.3333 |

| 20 | 5 | 2175.000000 | 37.4000 |

| 30 | 6 | 1566.666667 | 39.6667 |

| 40 | 0 | 0.000000 | 0.0000 |

+--------+-------+-------------+----------+

27、 列出所有员工的姓名、部门名称和工资。

+--------+------------+---------+

| ename | dname | sal |

+--------+------------+---------+

| SMITH | RESEARCH | 800.00 |

| ALLEN | SALES | 1600.00 |

| WARD | SALES | 1250.00 |

| JONES | RESEARCH | 2975.00 |

| MARTIN | SALES | 1250.00 |

| BLAKE | SALES | 2850.00 |

| CLARK | ACCOUNTING | 1000.00 |

| SCOTT | RESEARCH | 3000.00 |

| KING | ACCOUNTING | 5000.00 |

| TURNER | SALES | 1500.00 |

| ADAMS | RESEARCH | 1100.00 |

| JAMES | SALES | 950.00 |

| FORD | RESEARCH | 3000.00 |

| MILLER | ACCOUNTING | 1000.00 |

+--------+------------+---------+

28、列出所有部门的详细信息和人数

+-----------+--------+------------+----------+

| Cemployee | DEPTNO | DNAME | LOC |

+-----------+--------+------------+----------+

| 3 | 10 | ACCOUNTING | NEW YORK |

| 5 | 20 | RESEARCH | DALLAS |

| 6 | 30 | SALES | CHICAGO |

| 0 | 40 | OPERATIONS | BOSTON |

+-----------+--------+------------+----------+

29、列出各种工作的最低工资及从事此工作的雇员姓名

+---------+--------+-----------+

| sal | ename | job |

+---------+--------+-----------+

| 3000.00 | SCOTT | ANALYST |

| 3000.00 | FORD | ANALYST |

| 800.00 | SMITH | CLERK |

| 1000.00 | CLARK | MANAGER |

| 5000.00 | KING | PRESIDENT |

| 1250.00 | WARD | SALESMAN |

| 1250.00 | MARTIN | SALESMAN |

+---------+--------+-----------+

30、列出各个部门的 MANAGER( 领导) 的最低薪金

+--------+----------+

| deptno | min(sal) |

+--------+----------+

| 10 | 1000.00 |

| 20 | 2975.00 |

| 30 | 2850.00 |

+--------+----------+

31、列出所有员工的 年工资, 按 年薪从低到高排序

+--------+----------+

| ename | yearsal |

+--------+----------+

| SMITH | 9600.00 |

| JAMES | 11400.00 |

| MILLER | 12000.00 |

| CLARK | 12000.00 |

| ADAMS | 13200.00 |

| TURNER | 18000.00 |

| WARD | 21000.00 |

| ALLEN | 22800.00 |

| MARTIN | 31800.00 |

| BLAKE | 34200.00 |

| JONES | 35700.00 |

| FORD | 36000.00 |

| SCOTT | 36000.00 |

| KING | 60000.00 |

+--------+----------+

32、求出员工领导的薪水超过3000的员工名称与领导

+-----------+----------+

| employees | employer |

+-----------+----------+

| JONES | KING |

| BLAKE | KING |

| CLARK | KING |

+-----------+----------+

33、求出部门名称中, 带’S’字符的部门员工的工资合计、部门人数

+-------+------------+----------+

| count | dname | sumsal |

+-------+------------+----------+

| 5 | RESEARCH | 10875.00 |

| 6 | SALES | 9400.00 |

| 0 | OPERATIONS | 0.00 |

+-------+------------+----------+

34、给任职日期超过 30 年的员工加薪 10%