

基于 GaussDB 的 SQL 查询练习实验

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实验要求：

请根据基于 GaussDB 的 SQL 查询实验指导书中的要求完成 10 个 SQL 查询，并将 10 个 SQL 查询语句提交。

实验报告

查询语句 1：给出职工中所有男性的所有信息

(empid, empname, age, sex, edpid)

```
SELECT *  
FROM employee  
WHERE sex='男';
```

查询语句 2：统计来自天津的李姓职工信息，按年龄降序排序

(empid, empname, age, location)

```
SELECT empid,empname,age,location  
FROM employee,department  
WHERE employee.depid = department.depid and location = '天津' and  
empname LIKE '李%'  
ORDER BY age DESC;
```

查询语句 3：给出每位职员参与项目的最高预算和最低预算

(empname, highestbudget, lowestbudget)

```
SELECT empname,max(budget) as highestbudget,min(budget) as lowestbudget  
FROM employee,workson,project  
where employee.empid = workson.empid and workson.proid = project.proid  
GROUP BY employee.empname;
```

查询语句 4: 给出所有项目超过一个的员工的 id 和参加的项目个数

(empid, num)

```
SELECT employee.empid,count(proid) AS num
FROM employee ,workson
WHERE employee.empid = workson.empid
GROUP BY empid
HAVING count(proid)>1;
```

查询语句 5: 给出项目种类号为“c2”且预算最多的项目

(proid, projectname, budget)

```
SELECT proid,projectname,budget
FROM project
WHERE catid = 'c2' and budget >=ALL (SELECT budget
                                     FROM project p1
                                     WHERE p1.catid = 'c2');
```

查询语句 6: 给出参加“产品推广”项目，但不担任职位的员工的员工信息

(empid, empname, age, sex, depid)

```
SELECT employee.empid,empname,age,sex,depid
FROM employee,project,workson
WHERE projectname = '产品推广' and employee.empid = workson.empid and
workson.proid = project.proid and workson.job IS NULL;
```

查询语句 7: 给出工号为“10102”的员工每类项目的参加总数，若没有参加过某类项目，则参加项目总数显示为 0

(catid, proNum)

```
SELECT category.catid,count(workson.proid) as proNum
FROM category,project,workson
WHERE empid = '10102' and workson.proid = project.proid and project.catid =
category.catid
GROUP BY catid;
```

查询语句 8: 给出没有参与“软件类”项目女性职工的信息

(empid, empname, age, sex, depid)

```
SELECT distinct employee.empid,empname,age,sex,depid
FROM   employee ,category ,project,workson
WHERE  sex = '女' and employee.empid = workson.empid and workson.proid =
project.proid and project.catid = category.catid and catname<>'软件类';
```

查询语句 9：给出所有 30 岁以上男性员工的省份名称和该省男员工最大年龄，
结果按最大年龄升序排序

```
SELECT location,max(age) AS maxAge
FROM employee,department
WHERE sex = '男' and age>30 and employee.depid = department.depid
GROUP BY location
ORDER BY maxAge ASC ;
```

查询语句 10：给出在广州工作的、参加 “’产品推广’ ” 项目的职员 id、姓名及
他们参加的项目个数

(empid, empname, procnt)

```
SELECT employee.empid, empname, count(project.proid) AS   procnt
FROM employee,department,project,workson,category
WHERE employee.depid = department.depid and location = '广州' and
projectname = '产品推广' and employee.empid = workson.empid and
workson.proid = project.proid and project.catid = category.catid
GROUP BY employee.empid;
```