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;