基于 GaussDB 的 SQL 查询练习实验

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实验步骤:

- ▶ 登录华为云 IAM 用户
- > 访问对应数据库
- 进行相关数据查询

实验报告

实验步骤:

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';



2.统计 "李" 性职工信息, 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 employee.empname

LIKE '李%' ORDER BY employee.age DESC

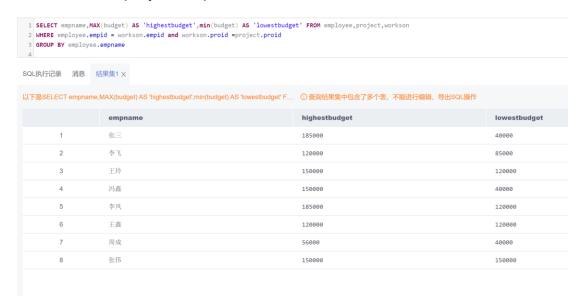


3. 给出每位职员参与项目的最高预算和最低预算 (empname, highestbudget, lowestbudget)

SELECT empname,MAX(budget) AS 'highestbudget',min(budget) AS 'lowestbudget' FROM employee,project,workson

WHERE employee.empid = workson.empid and workson.proid = project.proid

GROUP BY employee.empname



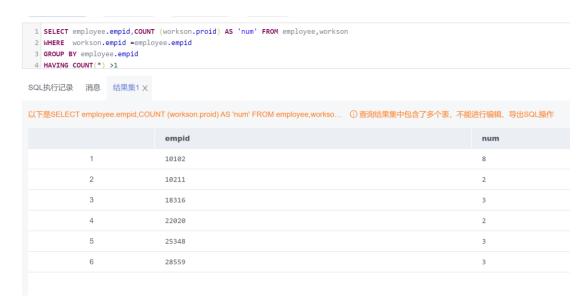
4.给出所有项目超过一个的员工的 id 和参加的项目个数 (empid, num)

SELECT employee.empid,COUNT (workson.proid) AS 'num' FROM employee,workson

WHERE workson.empid = employee.empid

GROUP BY employee.empid

HAVING COUNT(*) >1



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 WHERE catid ='c2');



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



- 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 project.catid ,COUNT (DISTINCT project.proid) AS 'proNum' FROM workson,project

WHERE workson.empid ='10102'

GROUP BY project.catid;



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 * FROM employee

WHERE sex ='女' AND empid NOT IN

(SELECT empid FROM workson WHERE workson.proid IN

(SELECT proid FROM project WHERE project.catid ='c4')

)

2 MHERE sex = '女' AND empid MOT IN 3 (SELECT empid FROM workson WHERE workson.proid IN 4 (SELECT proid FROM project WHERE project.catid ='c4') 5) SOL执行记录 消息 结果集1 ×					
以下是SELECT * FROM employee WHERE sex ='女' AND empid NOT IN (SELECT empid F ① 点击单元格可编辑数据,新增或编辑后需要提交编辑以保存					
en	mpld	empname	age	sex	depid
1 :	17114	张伟	36	女	d1
2 1	18316	王玲	29	女	d4

9. 给出有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 department.location,MAX(employee.age) AS 'maxAge' FROM department,employee

WHERE employee.sex ='男' AND employee.depid =department.depid AND department.depid IN

(SELECT depid FROM employee WHERE age >30)

GROUP BY department.depid



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 ,employee.empname ,COUNT (*) FROM employee,workson WHERE employee.empid IN

(SELECT employee.empid FROM employee,workson,project

WHERE employee.depid IN (SELECT depid FROM department WHERE location ='广州')

AND workson.proid IN (SELECT project.proid FROM project WHERE projectname ='产品推广')

AND employee.empid =workson.empid

AND workson.proid =project.proid

)

AND employee.empid =workson.empid

