计算机学院 数据库系统 课程实验报告

实验题目: 检索查询		学号: 201600301291
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实验目的:

熟悉各种查询语句,熟练使用 select from where group by having 子句以及 count max substring 等函数

实验软件和硬件环境:

Windows10

Oracle 数据库

实验原理和方法:

查询本人有那些表

select * from tab

查询实验大纲下公共用户有哪些表

select * from all tables where owner=' pub'

查询一个表中所有数据

Select * from pub. student

将查询结果创建到对应的表中

Create table tableName as select…

实验步骤: (不要求罗列完整源代码)

- 1. 登录系统
- 2. 针对实验要求的 10 个题目, 进行对应的查询, 并将结果创建到对应的表中
- 3. 执行 update dbtest set test =2 验证结果
- 4. 执行 select * from dbscore 查询结果
- 5. 如出现错误, 执行 drop table tableName 删除数据表, 重新进行查询

代码如下

create table test2 01

as select sid, name from pub. student

where sid in (select sid from pub. STUDENT minus select sid from pub. STUDENT COURSE)

```
create table test2 02
       as select sid , name from pub. student
       where sid in (select sid from pub. student course where cid in
           (select cid from pub. student course where sid=200900130417))
    create table test2 03 as
        select sid , name from pub. student
        where sid in (select sid from pub. student course
                     where cid in (select cid
                         from pub. course where fcid=300002))
    create table test2 04 as
       select sid , name from pub. student
       where sid in (select cl. sid
                      from pub. student course c1, pub. student course c2
                     where c1. CID=(select cid
                         from pub. course where name='操作系统')
                               and c2. CID=(select cid
                                   from pub. course where name='数据结构')
                               and c1. sid=c2. sid);
    create table test2 05 as
    select sid, name, avg score, sum score from pub. STUDENT natural join (
    select sid, round(avg(score)) as avg score, sum(score) as sum score
                                                                          from
pub. STUDENT course
    where sid in
    (Select sid from pub. student where age=20) group by sid)
                     table
                                      test2 06
                                                                       (select
    create
                                                          as
cid, name, max score, max score2, count (distinct ) as max score count
    from (select cid, name, max(score) as max_score
    from pub.student_course natural full outer join pub.COURSE
    group by cid, name
     natural full outer join pub. STUDENT COURSE
    natural full outer join (select cid, max(score) as max_score2
    from (select cid, name, max(score) as max_score
    from pub.student_course natural full outer join pub.COURSE
    group by cid, name
    ) natural full outer join pub.STUDENT COURSE where scoremax score or
score is null
    group by cid)
```

```
where score=max score group by cid, name, max score, max score2)
    create table test2 07 as
       select sid, name
       from pub. student
       where name not like '张%' and name not like '李%'
                       and name not like '王%'
    create table test2\_08 as
       select substr(name, 1, 1) second name, count(name) p count
       from pub. student
       group by substr(name, 1, 1)
    create table test2 09 as
       select sid, name, score
       from pub. student natural join pub. student course
       where cid='300003'
    create table test2 10 as
       select sid, name
       from pub. student course natural join pub. student
       where score<60
       group by cid, sid, name
       having count(sid)>=2
```

结论分析与体会:

要熟练使用查询语句,及 having group by,使用 sql 中函数库可以大大提高查询效率,最后要考虑查询语句的易读性,简洁性

进行数据操作须小心谨慎,注意细节。 进行数据操作须小心谨慎,注意细节。 进行数据操作须小心谨慎,注意细节。

了解 select 语句各字句的执行顺序,比如 where 语句中的限制条件是可以对 group by 起作用的

就实验过程中遇到和出现的问题,你是如何解决和处理的,自拟1-3道问答题:

第六题需要仔细思考,有很多需要注意的地方,例如一个同学同一门课得最高分只算一次。