实验一

create database CAP

on

(name=cap\_data,filename='d:\sql\_data\cap\_data.mdf',size=10,maxsize=50,filegrowth=1)

log on

(name=cap\_log,filename='d:\sql\_data\cap\_log.ldf',size=2,maxsize=5,filegrowth=1)

use CAP

go

create table agents(aid char(3) not null,aname varchar(13),city varchar(20),per smallint,primary key(aid));

go

create table orders(ordno integer not null,month char(3),cid char(4),aid char(3),pid char(3),qty integer,dollars money,primary key(ordno));

create table products(pid char(3) not null,pname varchar(13),city varchar(20),quantity integer,price money, primary key(pid));

select aid,aname

from agents

where agents.city='New York';

select distinct pid

from orders

select\*

from agents

where city IN('Duluth','Dallas')

select\*

from customers

where customers.city like 'D%';

select max(discnt)

from customers

select sum(dollars)

from orders

select sum(qty)

from orders

where pid='p01'

select count(distinct city)

from customers

实验二

-- create.sql

-- SQL statements for table creation for CAP database

create database CAP

on

(name=cap\_data,--数据文件的逻辑名称,注意不能与日志逻辑同名

filename='d:\sql\_data\cap\_data.mdf' ,--物理名称，注意路径必须存在

size=10,--数据初始长度为M

maxsize=50,--最大长度为M

filegrowth=5%)--数据文件每次增长%

log on

( name=cap\_log,

filename='d:\sql\_data\cap\_log.ldf ' ,

size=2 ,

maxsize=5 ,

filegrowth=1)

go

use CAP

go

if exists(select name from sysobjects where name='customers')

drop table customers;

create table customers (cid char(4) not null, cname varchar(13),

city varchar(20), discnt real, primary key(cid));

go

create table agents (aid char(3) not null, aname varchar(13),

city varchar(20), per smallint, primary key (aid));

create table products (pid char(3) not null, pname varchar(13),

city varchar(20), quantity integer, price money,

primary key(pid));

create table orders (ordno integer not null, month char(3),

cid char(4), aid char(3), pid char(3),

qty integer, dollars money, primary key(ordno));

select cid,aid,pid

from agents,customers,products

where agents.city=customers.city and customers.city=products.city

select cid,aid,pid

from agents,customers,products

where agents.city!=customers.city or customers.city!=products.city

select first.aid,second.aid

from agents first,agents second

where first.city=second.city and first.aid!=second.aid

select orders.cid,cname

from orders,customers

where orders.pid='p01'

intersect

select orders.cid,cname

from orders,customers

where orders.pid='p07'

select pid,sum(qty)

from orders

group by pid;

select pid,aid,sum(qty)

from orders

group by pid,aid

having sum(qty)>1000

select distinct cname

from customers,orders

where orders.pid='p05' and customers.cid=orders.cid

select cname,aname

from orders,customers,agents

where customers.cid=orders.cid and agents.aid=orders.aid

select distinct pid

from orders

where pid in (select pid from orders group by pid having count(pid)>1)

select\*

from customers

where discnt is null

select customers.cid,cname,city,discnt,ordno,month,aid,pid,qty,dollars

from customers left outer join orders on (customers.cid=orders.cid)

select\*

from agents

where city in('Duluth','Dallas')

select cname,discnt

from customers,orders

where customers.cid=orders.cid and orders.aid in (select aid from agents where city in('Duluth','Dallas'))

select cid

from customers

where discnt<any(select discnt from customers where city='Duluth')

select cname

from customers,orders

where customers.cid=orders.cid and aid<>'a05'

select city

from customers

union

select city

from agents

insert into orders(ordno,month,cid,aid,pid) values(1107,'aug','c006','a04','p01');

update agents

set per=per+10

where city='New York'

delete

from agents

where city='New York'

实验三

1-30

select sno,sname

from student

select distinct student.sno,sname

from student,sc,course

where course.cno=sc.cno and student.sno=sc.sno and sc.cno=1

select sname name,2018-sage 'year of birth',lower(sdept) department

from student

select count(cno)

from sc

where grade<60 and cno=1

select sname,sno,ssex

from student

where sname like '李%'

select sno

from student

where sno not in (select sno from sc where cno=2)

select distinct sno

from student

where sno in (select sno from sc )

select avg(grade),max(grade),min(grade)

from sc

where cno=1

select\*

from student

where sdept in ('MA','IS')

update sc

set grade=0

where sno in (select sno from student where sage=19)

select sname

from student,sc

where student.sno=sc.sno and cno=1

create table sex\_age

(ssex char(15),avg\_age smallint)

insert

into sex\_age(ssex,avg\_age)

select ssex,avg(sage)

from student

group by ssex

select sno,sum(credit)

from course,sc

where sc.cno=course.cno

group by sno

create view female\_student

as

select\*

from student

where ssex='女'

select distinct sname

from student,sc

where student.sno not in(select sno from sc where cno=1)

update sc

set grade=grade+5

where cno=1

select sdept,ssex,count(\*)as count

from student

group by sdept,ssex

order by sdept,ssex desc

select avg(grade)

from sc,student,course

where student.sdept='IS' and student.sno=sc.sno and course.cname='数据结构' and course.cno=sc.cno

create view birthyear(sno,sname,sbirth)

as

select sno,sname,2018-sage

from student

select\*

from student

where sdept in (select sdept from student where sname='王田')

select sname,sage

from student

where sage<20

select sno

from sc,course

where course.cname='数据库' and course.cno=sc.cno

union

select sno

from sc,course

where course.cname='信息系统' and course.cno=sc.cno

select student.sno,sname,cname,grade

from student,course,sc

where student.sno=sc.sno and sc.cno=course.cno

select sname,student.sno,cname,grade

from student,sc,course

where sname like '%俊%'

select sno,sum(credit)

from sc,course

where sc.cno=course.cno

group by sno

having sum(credit)>8

select sname,ssex

from student

where sdept in('IS','MA','CS')

select avg(grade)

from sc

group by sno

having count(\*)>=2

select sno,avg(grade),max(grade),min(grade),count(\*)

from sc

group by sno

delete

from sc

where sno in(select sno from student where sage>21)

select cno,cname

from course

where pcno is null

31-50

create view is\_info

as

select\*

from student

where sdept='IS'

select sno,sage

from is\_info

where sage<20

delete

from sc

where sno like (select sno from student where sname='马朝阳')

select sno,grade

from sc

where cno=3

order by grade desc

select student.sno,sname,grade

from sc,student,course

where grade<60 and sc.cno=course.cno and cname='数据库'

select\*

from student

order by sdept,sage desc

select student.sno,sname,sc.cno,cname

from sc,student,course

where sc.cno=course.cno and student.sno=sc.sno

select c1.cname,c1.cno,c2.cname,c2.cno

from course c1,course c2

where c1.pcno=c2.cno

select sc.sno,sname

from sc,student

where sc.cno=1 and grade>85 and sc.sno=student.sno

select sc.\*,student.\*,course.\*

from student,sc,course

select sno

from sc

where cno=1

intersect

select sno

from sc

where cno=2

create view course\_one

as

select student.\*

from sc,student

where cno=1 and sc.sno=student.sno

create view course\_one\_above\_90

as

select student.\*

from student,sc

where cno=1 and student.sno=sc.sno and grade>90

select sname

from student

where sno in(select sno from sc,course where sc.cno=course.cno group by sno having sum(credit)<10)

select\*

from student

where sage<(select sage from student where sname='刘晨')

select sname

from student,sc

where cno=2 and sc.sno=student.sno

select sname,sage

from student

where sdept<>'IS' and sage<any (select sage from student where sdept='IS')

select grade

from sc

where cno=2

order by grade desc

select distinct sno

from sc

where grade<60

select sname,sage

from student

where sdept<>'IS' and sage<all (select sage from student where sdept='IS')

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