

## —数据库实验3交互式SQL（三）查询操作(A)

```
create database test
use test
go
```

--1. 用Create Table建表Exam

```
create table Exam
(
  Id varchar(17),
  Name varchar(10),
  Sex varchar(2),
  Age integer,
  score numeric(6,2),
  address varchar(50),
  Memo varchar(100),
)
go
```

--2. 用Insert Into语句向Exam表中添加6条记录

```
insert into Exam values
('A0001','赵一','男',20,580.00,'宿舍-3-5','学习委员'),
('A0002','钱二','女',19,540.00,'南福苑-2-9','班长'),
('A0003','孙三','男',21,555.50,'学生新区-5-15','优秀共青团员'),
('A0004','李四','男',22,480.00,'宿舍-2-22','暂无相关信息'),
('A0005','周五','女',20,495.50,'学生新区-4-8','暂无相关信息'),
('A0006','吴六','男',19,435.00,'南福苑-5-12','暂无相关信息')
go
```

--3. 对表Exam的Score字段建立一个名为IndexScore的升序索引。

```
create index IndexScore on Exam(Score asc)
```

go

--4. 建立视图ViewExam, 字段ViewExam1和ViewExam2分别对应表Exam的Name和Address字段。

```
create view ViewExam(ViewExam1,ViewExam2)
as
select Name,address
from Exam
go
```

--5. 某电信局计费部门

```
create table Jm(
  Jmbm varchar(20) primary key,
  Jmhzh varchar(50),
  Jmbz image,
```

)

```
create table Zjm(
  Zjmbm varchar(20) primary key,
  Zjmhzh varchar(50),
  Jmbm varchar(20),
  Zjmbz image,
  constraint c1 foreign key (Jmbm) references Jm(Jmbm)
```

```
)
create table Dhshow(
Dhh varchar(20),
S11 numeric(6,2),
S13 numeric(6,2),
S139 varchar(20),
S140 varchar(20),
constraint c2 foreign key (S140) references Zjm(Zjmbm)
)
```

```
insert into Jm values
('01','电信局1',null),
('02','电信局2',null),
('03','电信局3',null)
```

```
insert into Zjm values
('0001','电信局1子局1','01',null),
('0002','电信局1子局2','01',null),
('0003','电信局2子局1','02',null)
```

```
insert into Dhshow values
('123456789',2.03,1.24,'001','0001'),
('234567891',1.57,0.65,'001','0002'),
('345678912',1.78,0.99,'002','0001'),
('456789123',2.90,0.64,'002','0003'),
('567891234',2.90,10.94,'002','0001'),
('678912345',0,10.64,'003','0001'),
('789123456',5.23,10.64,'003','0002')
```

--6. 用SELECT语句，求某一地区长话消费平均是多少分人民币。

```
select S139 地区,AVG(S11) 长话费用
from Dhshow
group by S139 having S139='001'
```

--7. 用SELECT语句，求某一地区市话消费总额大于10元人民币并且长话消费不为零的电话号码。

```
select S139 地区,Dhh 电话号码
from Dhshow
where S13>1000 and S11 !=0 and S139='003'
```

--8. 用SELECT语句，查询每一电话局各包含哪些子局？

```
select Jmbm, Zjmbm
from Zjm
```

--9. 用SELECT语句，查询每一子局的长话费总额？

```
select S140,sum(S11) sum
from Dhshow
group by S140
```

--10. 用SELECT语句，查询每一电话局的长话费总额？

```
create view D(sd,sum1)
as
select S140,sum(S11)
```

```
from Dhshow  
group by S140
```

```
select Zjm. Jmbm ' 电信局编码', SUM(D. sum1) ' 电话局的长话费总额'  
from D, Zjm  
where D. sd=Zjm. Zjmbm  
group by Zjm. Jmbm
```