Create database hotel --创建数据库

use hotel

go

Create table Customers( --创建客户基本信息表Customar

Cno char(20) primary key,

Cname char(10) not null,

Csex char(2) Check (Csex in ('男','女')),

Cid char(20) not null,

)

create view IS\_Customers --创建顾客视图

AS

SELECT Cno,Cname,Csex,cid

FROM Customers

with check option;

use hotel

go

Create table Room( --创建客房基本信息表Room

Rno char(20)not null primary key,

Rstyle char(10) not null,

Rprice int,

Rstate char(10) ,

Rtel char(15),

)

create view IS\_Room --创建客房信息视图

AS

SELECT Rno,Style,Rprice,Rstate ,Rtel

FROM Room

with check option;

use hotel

go

Create table Roomitem( --创建客房物品信息表Room

Ritemno int not null,

Rno char(20) not null,

Ritemname char(20) not null,

Ritemprice int,

Ritemstate char(10),

Ritemnum int,

Primary key (Ritemno),

foreign key(Rno) references Room(Rno),

)

create view IS\_Roomitem --创建客房物品信息视图

AS

SELECT Ritemno,Rno,Ritemname,Ritemprice ,Ritemstate,Ritemnum

FROM Roomitem

with check option;

use hotel

go

Create table Living( --创建客户住宿信息表Living

Cno int not null,

Rno int not null,

Ccomeddate datetime not null,

CleftDate datetime not null,

Ctime int ,

Camount int,

Primary key(Cno,Rno),

)

create view IS\_Living --创建住宿信息视图

AS

SELECT Cno,Rno,Ccomeddate,CleftDate,Ctime,Camount

FROM Living

with check option;

use hotel

go

Create table Admin( --创建管理员信息表Admin

Ano Char(10) Not null Primary key,

Aname Char(10) Not null,

Aposition Char(10) Not null,

Apassword Char(20) Not null,

)

create view IS\_Admin --创建管理员视图

AS

SELECT Ano,Aname,Aposition,Apassword

FROM Admin

with check option;

create unique index I\_Admin on Admin(Ano);--按管理员编号建立索引

create unique index I\_Customers on Customers(Cno);--按顾客编号编号建立索引

create unique index I\_Room on Room(Rno);--按房间编号建立房间索引

Insert into Room(Rno,Style , Rprice,Rstate, Rtel) --添加房间信息

values('201','高','700','空','13452698695');

Insert into Room(Rno,Style , Rprice, Rtel) --添加房间信息

values('102','中','500','13452669854');

Insert into Room(Rno,Style , Rprice, Rtel) --添加房间信息

values('103','低','300','13452699745');

select \* from Room order by Rprice DESC;--查询房间信息（按价格降序）

create trigger c1 --建立触发器c1，有一条信息插入Living表时，触发Room表中Rstate=‘满‘.

on Living for insert

as if exists(select\*from Living,Room WHERE Living.Rno=Room.Rno)

begin

update Room set Rstate='满'

where Rno=(select Rno from inserted)

End

create trigger c2 --建立触发器c2，有一条信息从Living表删除时，触发Room表中Rstate=‘空‘.

on Living for delete

as if exists(select\*from Living,Room WHERE Living.Rno=Room.Rno)

begin

update Room set Rstate='空'

where Rno=(select Rno from deleted)

End

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('1','101','毛巾','5','正常','3');

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('2','101','牙刷','6','正常','2');

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('3','101','洗发水','10','正常','1');

Insert into Customers(Cname,Cno, Csex,cid) --添加客人信息

values('夏天','001','男','132568966310054214');

Insert into Customers(Cname,Cno, Csex,cid) --添加客人信息

values('李娟','002','女','132568966310054254');

select \* from Customers order by Cno ASC;--查询客人信息（按客户编号升序）

DELETE Living where Cno='001';--删除客户住宿信息

Insert into Living(Rno,Cno,CleftDate, Ccomeddate,Ctime,Camount) --添加客人信息

values('101','001','2020-12-10','2020-12-14','48','2400');

Insert into Living(Rno,Cno,CleftDate, Ccomeddate,Ctime,Camount) --添加客人信息

values('103','002','2020-12-11','2020-12-14','48','2400');

select\*from living; --查询客人信息

Insert into Admin(Ano,Aname ,Aposition ,Apassword ) --添加管理员信息

values('100','李磊','主任','20213');

Insert into Admin(Ano,Aname ,Aposition ,Apassword )

values('101','102','副主任','25630');

select\*from Admin; --查询管理员信息

update Admin set Aname='1001' where Ano=101; --修改管理员信息

use hotel

go

select \* from Room order by Rprice DESC;--查询房间信息（按价格降序）

select \* from Customers order by Cno ASC;--查询客人信息（按客户编号升序）

select\*from living; --查询客人住宿信息

select\*from Admin; --查询管理员信息

select \* from Roomitem order by Rno ASC;--查询房间物品信息（按房间编号升序）

Insert into Living(Rno,Cno,CleftDate, Ccomeddate,Ctime,Camount) --添加客人信息

values('101','001','2020-12-13','2020-12-14','48','2400');

Insert into Room(Rno,Style , Rprice,Rstate, Rtel) --添加房间信息

values('201','中','500','空','13452698111');

DELETE Living where Cno='001';--删除客户住宿信息

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('7','103','毛巾','5','正常','3');

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('8','103','牙刷','6','正常','2');

Insert into Roomitem(Ritemno,Rno ,Ritemname ,Ritemprice ,Ritemstate,Ritemnum ) --添加房间物品信息

values('9','103','洗发水','10','正常','1');

update Admin set Aname='刘强' where Ano=101; --修改管理员信息