BUS RESERVATION SYSTEM

Tables :

create table bus(bus_name char(15) primary key,total_seats number(3),reserved_seats number(3), price number(3));

create table busreservation(bus_name char(15) references bus_details(bus_name),seat_id number(3),reserved char(2) ,customer_name char(15));

Bus table input :

declare

 bus_name char(15);

 total_seats number(3);

price number;

 begin

bus_name :=:bus_name;

total_seats :=:total_seats ;

price :=:price;

insert into bus values(bus_name ,total_seats ,0,price);

end;

Bus table :

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```
select* from busreservation ;



declare
 bus_name char(15);
 total_seats number(3);
price number;
 begin
bus_name :=:bus_name;
total_seats :=:total_seats ;
price :=:price;
insert into bus values(bus_name ,total_seats ,0,price);
 end;
select* from bus;
```

Results   Explain   Describe   Saved SQL   History

BUS_NAME	TOTAL_SEATS	RESERVED_SEATS	PRICE
aa	5	0	20

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Bus reservation table :

```
declare
 bname char(15);
 tot number(3);
 resv number(3);
p number;
 cursor cur is select * from bus;

 begin
open cur;
 loop
fetch cur into bname,tot,resv,p;
 if cur%found then
for i in 1 .. tot loop
insert into busreservation values(bname,i,'n',null);
end loop;
else
exit;
end if;
end loop;
 close cur;

end;
```

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```
declare
 bname char(15);
 tot number(3);
 resv number(3);
p number;
 cursor cur is select * from bus;
 begin
open cur;
 loop
fetch cur into bname,tot,resv,p;
 if cur%found then
for i in 1 .. tot loop
insert into busreservation values(bname,i,'n',null);
end loop;
else
```

Results Explain Describe Saved SQL History

BUS_NAME	SEAT_ID	RESERVED	CUSTOMER_NAME
aa	1	n	-
aa	2	n	-
aa	3	n	-
aa	4	n	-
aa	5	n	-

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seat reservation code :

```
declare

cname char(15);

bname char(15);

sid number(3);

tot number(3);

resv number(3);

totalseat number(2);


cursor c1 is select * from busreservation ;

var c1%rowtype;


begin

cname:= :cname;

bname:=:bname;

totalseat :=:totalseat ;

select total_seats into tot from bus where bus_name=bname;

select reserved_seats into resv from bus where bus_name=bname;


if tot>resv then

for i in 1 .. totalseat loop


select MIN(seat_id) into sid from busreservation where bus_name=bname and
reserved='n';
```

```
update busreservation set reserved='y' where bus_name=bname and seat_id=sid;


update busreservation set customer_name=cname where bus_name=bname and
seat_id=sid;


update bus set reserved_seats=reserved_seats+1 where bus_name=bname;


end loop;


else

dbms_output.put_line('No seat avalable');


end if;

for i in c1 loop

dbms_output.put_line(i.bus_name || ' ' || i.seat_id || ' ' || i.reserved || ' ' ||
i.customer_name );

end loop;


end;
```

Before seat reservation :

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```
declare
 bname char(15);
 tot number(3);
 resv number(3);
p number;
 cursor cur is select * from bus;
 begin
open cur;
 loop
fetch cur into bname,tot,resv,p;
 if cur%found then
for i in 1 .. tot loop
insert into busreservation values(bname,i,'n',null);
end loop;
else
```

Results Explain Describe Saved SQL History

BUS_NAME	SEAT_ID	RESERVED	CUSTOMER_NAME
aa	1	n	-
aa	2	n	-
aa	3	n	-
aa	4	n	-
aa	5	n	-

After seat reservation :

Enter Bind Variables - Google Chrome

ⓘ 127.0.0.1:8080/apex/f?p=4500:138:1055843827236334:::

[Submit]

:CNAME [manan]
:BNAME [aa]
:TOTALSEAT [3]

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☑ Autocommit Display [10   ▾]

```
declare
cname char(15);
bname char(15);
sid number(3);
tot number(3);
resv number(3);
totalseat number(2);

cursor c1 is select * from busreservation ;
var c1%rowtype;

begin
cname:= :cname;
bname:=:bname;
totalseat :=:totalseat ;
```

Results Explain Describe Saved SQL History

aa	1 y	manan
aa	2 y	manan
aa	3 y	manan
aa	4 n	
aa	5 n	

Bus reservation table after seat reservation :

BUS_NAME	SEAT_ID	RESERVED	CUSTOMER_NAME
aa	1	y	manan
aa	2	y	manan
aa	3	y	manan
aa	4	n	-
aa	5	n	-

Bus table after seat reservation :

BUS_NAME	TOTAL_SEATS	RESERVED_SEATS	PRICE
aa	5	3	20

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Seat cancellation code :

```
declare

cname char(15);

bname char(15);

sid number(3);

resv number(3);

seat number(2);


cursor c1 is select * from busreservation ;

var c1%rowtype;


begin

cname:= :cname;

bname:= :bname;

seat:= :seat;


select reserved_seats into resv from bus where bus_name=bname;


if resv>0 then

for i in 1 .. seat loop

        select MAX(seat_id) into sid from busreservation where
bus_name=bname and reserved='y'and customer_name=cname;

        update busreservation set reserved='n' where bus_name=bname and
seat_id=sid;
```

```
        update busreservation set customer_name=null where bus_name=bname
and seat_id=sid;

        update bus set reserved_seats=reserved_seats-1 where
bus_name=bname;

end loop;

else

 dbms_output.put_line('Cancelation not allow');

end if;


for i in c1 loop

dbms_output.put_line(i.bus_name || ' ' || i.seat_id || ' ' || i.reserved || ' ' ||
i.customer_name );

end loop;


end;
```
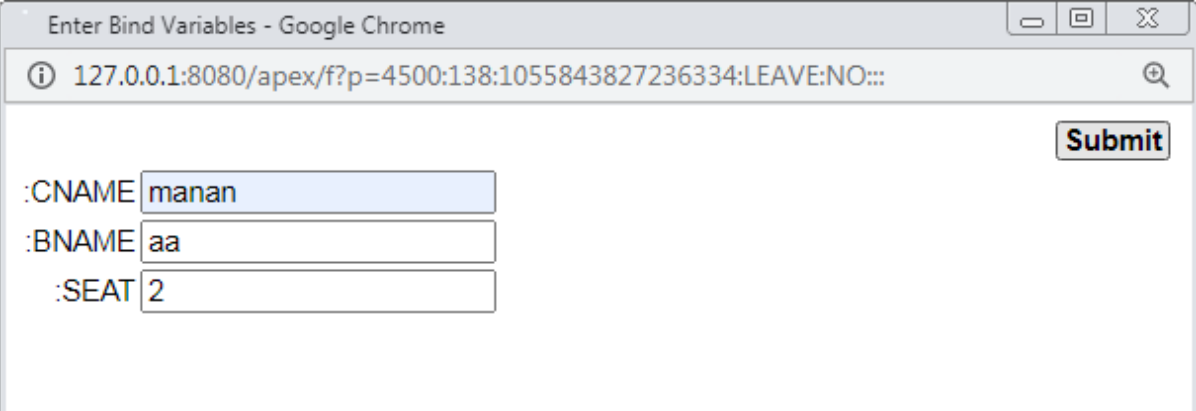
After seat cancellation:

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```
declare
cname char(15);
bname char(15);
sid number(3);
resv number(3);
seat number(2);

cursor c1 is select * from busreservation ;
var c1%rowtype;

begin
cname:= :cname;
bname:= :bname;
seat:= :seat;
```

Results   Explain   Describe   Saved SQL   History

```
aa                  1 y    manan
aa                  2 n
aa                  3 n
aa                  4 n
aa                  5 n
```

Bus table after seat cancellation :

BUS_NAME	TOTAL_SEATS	RESERVED_SEATS	PRICE
aa	5	1	20

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Bus reservation table after seat cancellation :

BUS_NAME	SEAT_ID	RESERVED	CUSTOMER_NAME
aa	1	y	manan
aa	2	n	-
aa	3	n	-
aa	4	n	-
aa	5	n	-

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