**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

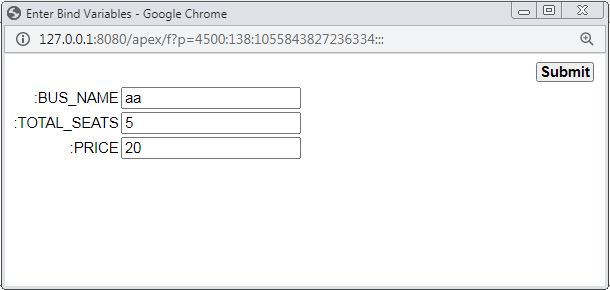
bus\_name :=:bus\_name;

total\_seats :=:total\_seats ;

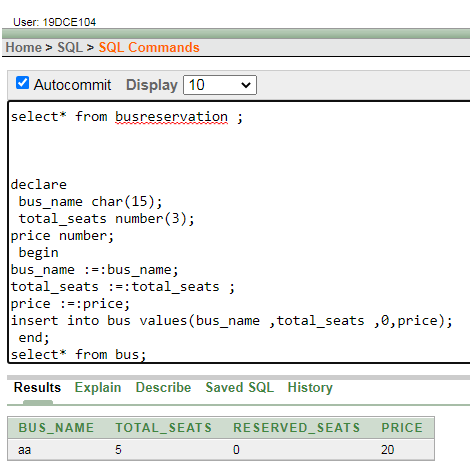
price :=:price;

insert into bus values(bus\_name ,total\_seats ,0,price);

end;



**Bus table :**



**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

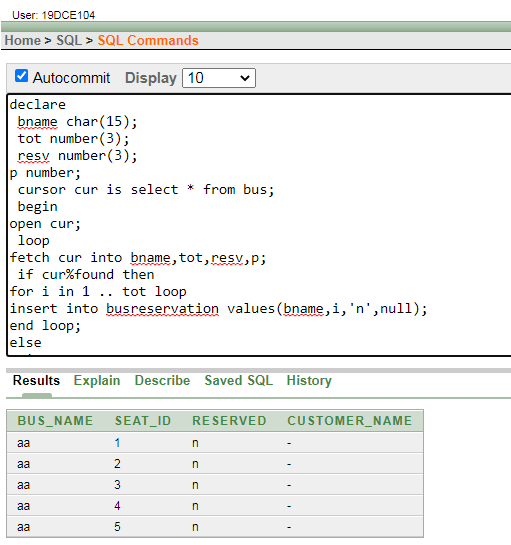
exit;

end if;

end loop;

close cur;

end;

**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;

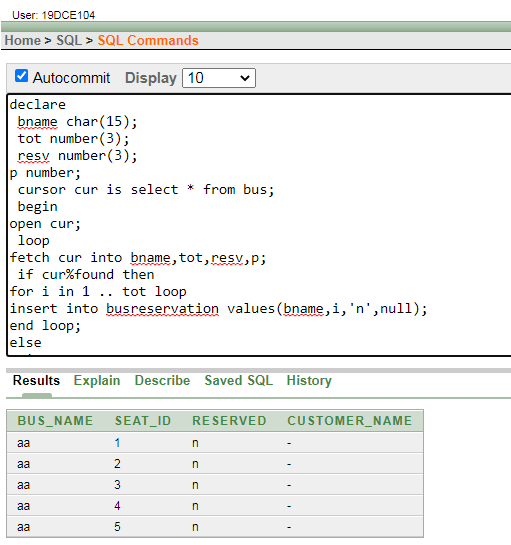
for i in c1 loop

dbms\_output.put\_line(i.bus\_name || ' ' || i.seat\_id || ' ' || i.reserved || ' ' || i.customer\_name );

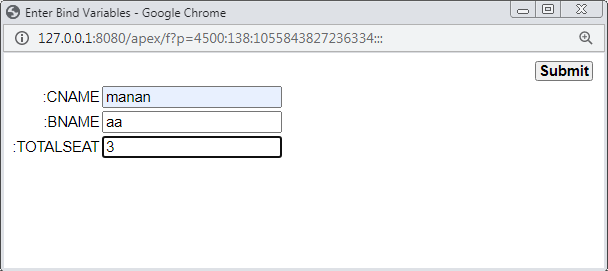
end loop;

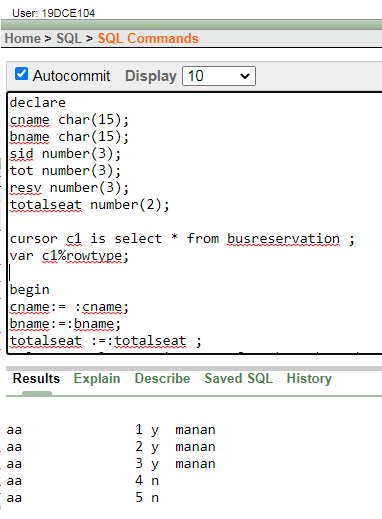
end;

**Before seat reservation :**

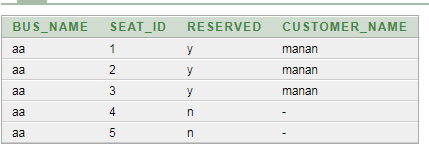


**After seat reservation :**





**Bus reservation table after seat reservation :**



**Bus table after seat reservation :**



**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;

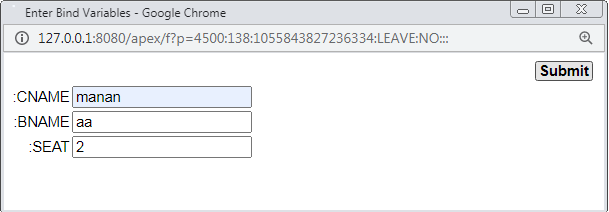
for i in c1 loop

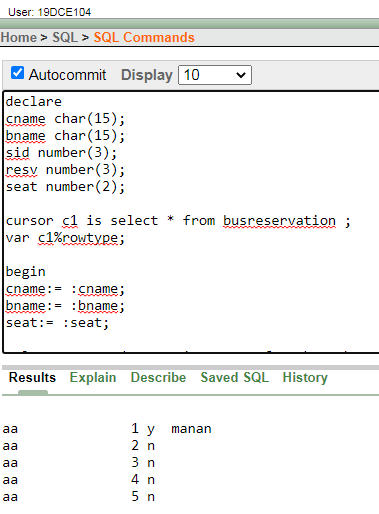
dbms\_output.put\_line(i.bus\_name || ' ' || i.seat\_id || ' ' || i.reserved || ' ' || i.customer\_name );

end loop;

end;

**After seat cancellation:**





**Bus table after seat cancellation :**



**Bus reservation table after seat cancellation :**

