DBMS LAB 9

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1. Write a trigger on insert to compartment table when a new compartment gets added to a train and make sure that total number of compartments available in the train does not exceed more than 4.

delimiter $$

create trigger comp\_check

before insert

on compartment for each row

begin

declare c int;

declare msg varchar(255);

set msg=('Compartments available in train exceeds 4');

if (select count(\*)

from compartment

where train\_number=new.train\_number)>=4 then

SIGNAL sqlstate '45001'

set message\_text=msg;

end if;

end$$

delimiter ;

insert into COMPARTMENT (compartment\_no,compartment\_type,capacity,availability,train\_number) values

('F01','III Class','12','8','62621');

insert into COMPARTMENT ((compartment\_no,compartment\_type,capacity,availability,train\_number) values

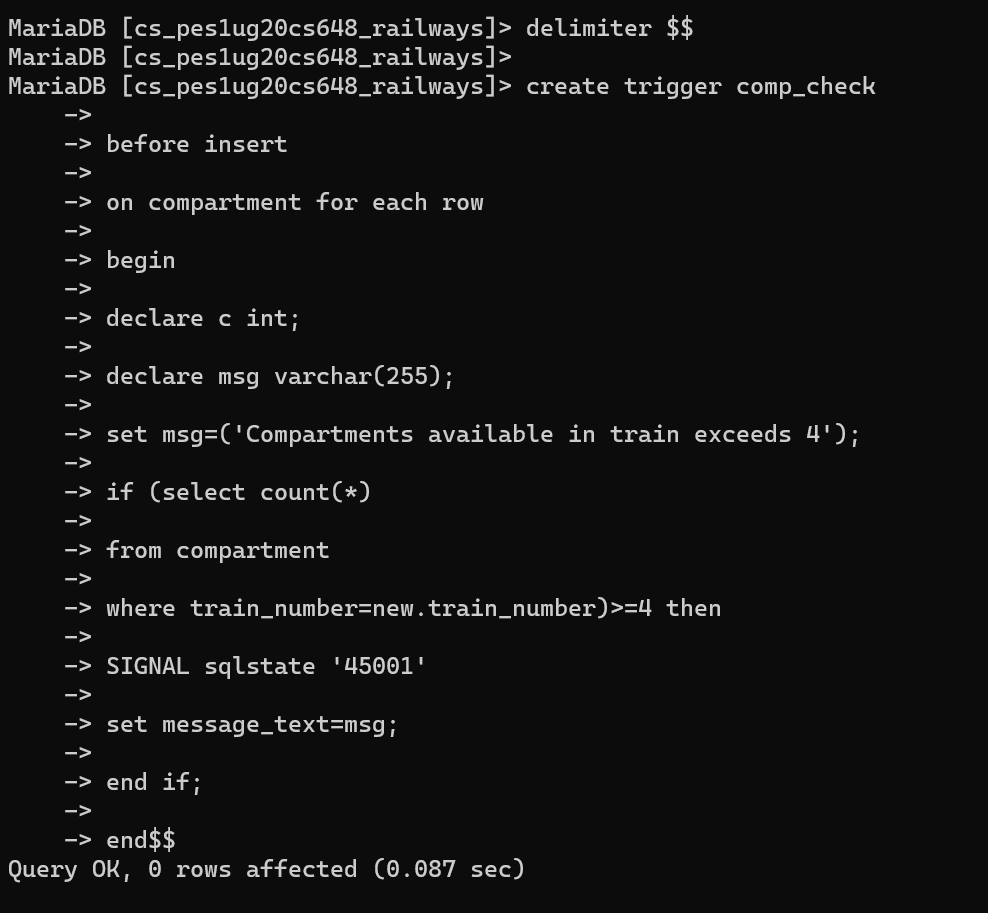
('F01','I Class','12','8','62620');

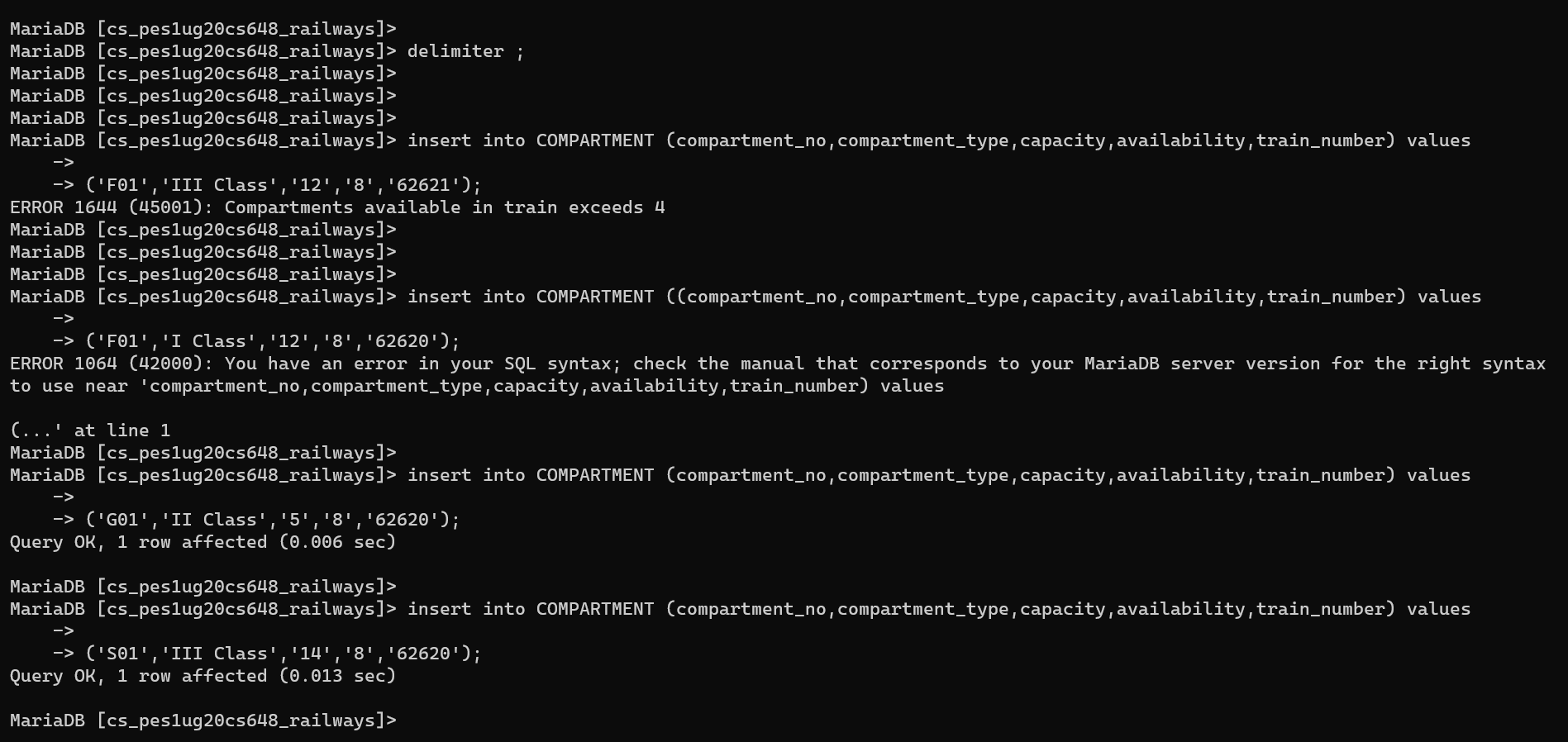
insert into COMPARTMENT (compartment\_no,compartment\_type,capacity,availability,train\_number) values

('G01','II Class','5','8','62620');

insert into COMPARTMENT (compartment\_no,compartment\_type,capacity,availability,train\_number) values

('S01','III Class','14','8','62620');





2) create a trigger to add payment information to the backup table when we try to delete some information from ticket table.

Create table payment\_info\_backup( transaction\_no bigint NOT NULL,  
price int,  
                        card\_no long,  
                        bank  varchar(255),  
                        pnr varchar(255),  
                        PRIMARY KEY(transaction\_no));  
                          
set foreign\_key\_checks=0;  
  
delimiter $$  
create trigger payment\_backup  
before delete  
on ticket for each row  
begin  
declare tn bigint;  
declare prc int;  
declare cn long;  
declare bnk varchar(255);  
declare pnr1 varchar(255);  
select \* into tn,bnk,cn,prc,pnr1  
from payment\_info   
where pnr=old.pnr;  
insert into payment\_info\_backup(Transaction\_No,Bank,Card\_No,Price,pnr)  
values (tn,bnk,cn,prc,pnr1);  
end$$  
delimiter ;  
  
delete from ticket where PNR='PNR005';  
select \* from payment\_info\_backup;  
  
drop trigger payment\_backup;  
drop table payment\_info\_backup;

