**Railway Reservation Database**

1. create table train(train\_no int primary key,train\_name varchar(20),depart\_time time,arrival\_time time,source\_stn varchar(20),dest\_stn varchar(20),no\_of\_res\_bogies int,bogie\_capacity int);
2. create table passenger(passenger\_id int primary key,passenger\_name varchar(20),address varchar(30),age int,gender char);
3. create table ticket(train\_no int references train,passenger\_id int references passenger,ticket\_no int,bogie\_no int,no\_of\_births int,tdate date,ticket\_amt decimal(7,2),status char check(status in('w','c')));

Insert Statements:-

1. insert into train values(11029,'MahaExpress','08:12:23','12:34:18','Pune','Nagpur',19,20);
2. insert into passenger values(101,'Ram','Pune',18,'M');
3. insert into ticket values(1103,102,2,3,2,'12-12-2019',680,'w');

**Execute the following stored functions.**

1. Write a stored function to calculate the ticket amount paid by all the passengers on 12/12/2019 for all the trains.

Ans: create or replace function totalsum()

returns void as'

declare

rec record;

begin

select into rec sum(ticket\_amt) from ticket where tdate=''12-12-2019'';

raise notice ''Total Ticket Amount on 12/12/2019 is %'',rec.sum;

end;'

language 'plpgsql';

2) Write a stored function to update the status of the ticket from ‘waiting’ to ‘confirm’ forpassenger named “Mr.Mohite”.

Ans:create or replace function us()

returns void as'

declare

begin

update ticket set status=''c'' where passenger\_id in(select ticket.passenger\_id from ticket,passenger where ticket.passenger\_id=passenger.passenger\_id and passenger\_name=''Mr.Mohite'');

end;'

language 'plpgsql';