--Task 1

use database bb\_newdatabase

create or replace table shopping\_history

(product varchar(20)not null,

quantity integer not null,

unit\_price integer not null

);

insert into shopping\_history values('Milk',3,10);

insert into shopping\_history values('Bread',7,3);

insert into shopping\_history values('Bread',5,2);

select \* from shopping\_history ;

select product,sum(quantity\*unit\_price) as total\_price from shopping\_history group by 1 order by 1 desc;

--Task 2

create or replace table phones(

name varchar(20) not null unique,

phone\_number integer not null unique

);

insert into phones values('jack',1234);

insert into phones values('lena',3333);

insert into phones values('mark',9999);

insert into phones values('anna',7582);

select \* from phones;

create or replace table calls(

id integer not null,

caller integer not null,

callee integer not null,

duration integer not null,

unique (id)

);

insert into calls values(25,1234,7582,8);

insert into calls values(7,9999,7582,1);

insert into calls values(18,9999,3333,4);

insert into calls values(2,7582,3333,3);

insert into calls values(3,3333,1234,1);

insert into calls values(21,3333,1234,1);

select \* from calls;

select name from phones join calls on phones.phone\_number=calls.caller or

phones.phone\_number=calls.callee group by 1 having sum(duration)>=10;

--Task 3

Create or replace table transactions(

amount integer not null,

date date not null

);

insert into transactions values(1000,'2020-01-06');

insert into transactions values(-10,'2020-01-14');

insert into transactions values(-75,'2020-01-20');

insert into transactions values(-5,'2020-01-25');

insert into transactions values(-4,'2020-01-29');

insert into transactions values(2000,'2020-03-10');

insert into transactions values(-75,'2020-03-12');

insert into transactions values(-20,'2020-03-15');

insert into transactions values(40,'2020-03-15');

insert into transactions values(-50,'2020-03-17');

insert into transactions values(200,'2020-10-10');

insert into transactions values(-200,'2020-10-10');

select \* from transactions;

select (sum(amount)- (12-count(month(date)))\*5) from

(

select count(month(date)) from transactions

where amount<0

group by month(date)

having sum(amount)<100 and

count(month(date))<3

);