**SQL Projects**

**--TASK 1 Shopping history**

create table shopping\_history

(

product varchar(50) not null,

quantity integer not null,

unit\_price integer not null

);

insert into shopping\_history values

('milk',4,40),

('bread',4,25),

('butter',4,30),

('milk',2,40),

('milk',1,40);

Query

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

**--TASK2 Phone task**

create table phones

(

name varchar(50) not null unique,

phone\_num integer not null unique

);

create table calls

(

id integer not null unique,

caller integer not null,

callee integer not null,

duration integer not null

);

insert into phones values

('ramya',3233),

('mohan',2312),

('nimalan',6547),

('visakan',9899);

insert into calls values

(1,3233,9899,4),

(2,2312,9899,4),

(3,6547,9899,1),

(4,9899,2312,2),

(5,2312,6547,6);

**query**

**select name from (select a.name,b.caller,b.callee,b.duration from phones a inner join calls b on a.phone\_num=b.callee union**

**select a.name,b.caller,b.callee,b.duration from phones a inner join calls b on a.phone\_num=b.caller) as agg group by name having time>=10 order by name**

**--Task 3 Bank balance task**

create table transactions(

Amount integer not null,

date date not null

);

**Query**

**select sum(totbal) as finbal from (select sum(Amount) as totbal from transactions union select ((12-countt)\*(-5)) from**

**(select count(total) as countt from**

**(select sum(Amount) as total from transactions where Amount<0 group by month(Date) having count(month(date))>=3) where total<=(-100)))**