**Task 1 :create database if not exists assignments;**

**create table shopping\_history(**

**product varchar(40) not null,**

**quantity int not null,**

**Unit\_price int not null);**

**insert into shopping\_history values**

**("Apple",10,20),**

**("Biscuit",2,50),**

**("Apple",2,25),**

**("shoe Polish",1 ,60),**

**("shoe", 1,1500),**

**("Shirt",2,1499),**

**("Biscuit",10,155);**

**with a as (**

**select product, quantity,Unit\_price,(quantity \* Unit\_price)as total\_price from shopping\_history group by 1,2,3**

**)**

**select product,sum(total\_price)as total\_price from a group by product order by 1;**

**Task 2.1**

create table telecommunication\_phone

(`Name` varchar(10),

phone\_number int);

insert into telecommunication\_phone values("Nikhil",12345),

("Rahul",56789),

("Abhi",13579),

("Jay",24680);

select \* from telecommunication\_phone

create table telecommunication\_call

(idd int,

caller\_phone int,

Callee\_phone int,

duration int)

insert into telecommunication\_call values(01,12345,24680,8),

(12,56789,13579,1),

(32,13579,12345,4),

(42,13579,56789,4),

(244,13579,12345,2),

(268,24680,12345,6),

(118,56789,12345,2);

**select \* from telecommunication\_call;**

**select y.`Name`, z.\* from(with a as(select caller\_phone,sum(duration)duration from telecommunication\_call group by caller\_phone**

**union**

**select callee\_phone,sum(duration)duration from telecommunication\_call group by callee\_phone)**

**select caller\_phone,sum(duration)duration from a group by caller\_phone) as z inner join telecommunication\_phone y on y.phone\_number = z.caller\_phone**

**where duration >= 10;**

**Task 2.2**

**use assignments;**

**create table telecommunication\_phone**

**(`Name` varchar(10),**

**phone\_number int);**

**insert into telecommunication\_phone values("Nikhil",12345),**

**("Rahul",56789),**

**("Abhi",13579);**

**select \* from telecommunication\_phone**

**create table telecommunication\_call**

**(idd int,**

**caller\_phone int,**

**Callee\_phone int,**

**duration int)**

**insert into telecommunication\_call values(01,12345,24680,8),**

**(12,56789,13579,1),**

**(32,13579,12345,4),**

**(42,13579,56789,4),**

**(244,13579,12345,1),**

**(268,24680,12345,1),**

**(118,56789,12345,2);**

**select \* from telecommunication\_call;**

**select y.`Name` from(with a as(select caller\_phone,sum(duration)duration from telecommunication\_call group by caller\_phone**

**union**

**select callee\_phone,sum(duration)duration from telecommunication\_call group by callee\_phone)**

**select caller\_phone,sum(duration)duration from a group by caller\_phone) as z inner join telecommunication\_phone y on y.phone\_number = z.caller\_phone**

**;**