**Task 1:**

create database assignement1

create table shopping\_history (

product varchar(100) not null,

quantity integer not null,

unit\_price integer not null)

insert into shopping\_history (product, quantity, unit\_price) values ('milk', 5, 37);

insert into shopping\_history (product, quantity, unit\_price) values ('bread', 2, 50);

insert into shopping\_history (product, quantity, unit\_price) values ('cheese', 2, 200);

insert into shopping\_history (product, quantity, unit\_price) values ('jaggery', 3, 100);

insert into shopping\_history (product, quantity, unit\_price) values ('sugar', 50, 9);

insert into shopping\_history (product, quantity, unit\_price) values ('curd', 2, 44);

insert into shopping\_history (product, quantity, unit\_price) values ('phenyl', 3, 120);

insert into shopping\_history (product, quantity, unit\_price) values ('dettol', 1, 300);

insert into shopping\_history (product, quantity, unit\_price) values ('apple', 3, 210);

insert into shopping\_history (product, quantity, unit\_price) values ('sattu',1, 180);

select \* from shopping\_history

select product, quantity\*unit\_price as total\_price from shopping\_history;

|  |  |
| --- | --- |
| PRODUCT | TOTAL\_PRICE |
| milk | 185 |
| bread | 100 |
| cheese | 400 |
| jaggery | 300 |
| sugar | 450 |
| curd | 88 |
| phenyl | 360 |
| dettol | 300 |
| apple | 630 |
| sattu | 180 |

**Task 2:**

**use database "ASSIGNEMENT1"**

create table phones(

name varchar(50) not null,

phone\_number integer not null

)

select \* from phones

insert into phones values

('jack', 1234),

('Lena', 3333),

('Mark', 9999),

('Anna', 7582),

('Tipu', 3313),

('Maria', 3323),

('Keemo', 3363),

('Santyo', 3393),

('teena', 3353),

('meena', 3359);

create table calls (

id integer not null,

caller integer not null,

callee integer not null,

duration integer )

select \* from calls

insert into calls values

('01', 1234,9999,7),

('02', 3333,9998,6),

('03', 9999,9997,2),

('04', 7582,9996,1),

('05', 3313,9995,2),

('06', 3323,9994,4),

('07', 3363,9993,3),

('08', 3393,9992,2),

('09', 3353,9991,1),

('10', 3359,9990,1),

('11', 1234,8999,4),

('12', 3333,8998,5),

('13', 9999,8997,1),

('14', 7582,8996,1),

('15', 3313,8995,3),

('16', 3323,8994,1),

('17', 3363,8993,3),

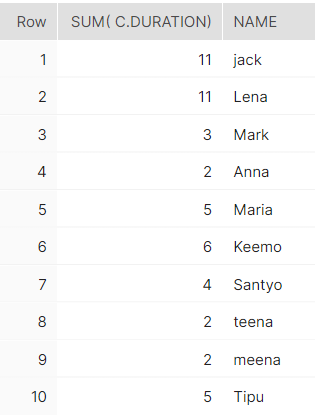
('18', 3393,8992,2),

('19', 3353,8991,1),

('20', 3359,8990,1);

select sum( c.duration) , p.name

from phones p left join calls c on p.phone\_number = c.caller group by p.name



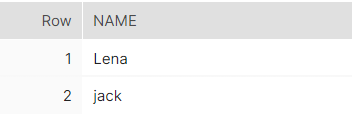
As per the query result, Jack and Leena total call duration is more than 10 minutes.

Also,

select name from phones where phone\_number in

(select caller from (select caller,count(\*), sum(duration)> 10 as sumdur from calls group by caller)where sumdur = true) order by name asc

RESULT:



**Task 3:**

**Output display is just one column balance**

You can add the following data in the table

USE DATABASE "EXPERRIMENT"

---tranaction table--

CREATE TABLE TRANSACTIONS (

AMOUNT INTEGER NOT NULL,

DATE date not null );

--table data feeding---

insert into TRANSACTIONS values ( 2000, '2000-01-01');

insert into TRANSACTIONS values ( -20, '2000-01-05');

insert into TRANSACTIONS values ( -500, '2000-01-10');

insert into TRANSACTIONS values ( -900, '2000-01-20');

insert into TRANSACTIONS values ( -35, '2000-01-01');

insert into TRANSACTIONS values ( -800, '2000-02-01');

insert into TRANSACTIONS values ( 3000, '2000-02-05');

insert into TRANSACTIONS values ( -900, '2000-02-10');

insert into TRANSACTIONS values ( -30, '2000-03-11');

insert into TRANSACTIONS values ( -90, '2000-03-11');

insert into TRANSACTIONS values ( -30, '2000-03-21');

insert into TRANSACTIONS values ( 900, '2000-04-11');

insert into TRANSACTIONS values ( -100, '2000-04-21');

insert into TRANSACTIONS values ( -200, '2000-05-01');

insert into TRANSACTIONS values ( -9, '2000-05-03');

insert into TRANSACTIONS values ( -3, '2000-05-03');

insert into TRANSACTIONS values ( -100, '2000-05-03');

insert into TRANSACTIONS values ( -1, '2000-05-29');

insert into TRANSACTIONS values ( 2000, '2000-06-01');

insert into TRANSACTIONS values ( -20, '2000-06-05');

insert into TRANSACTIONS values ( -500, '2000-06-10');

insert into TRANSACTIONS values ( -900, '2000-06-20');

insert into TRANSACTIONS values ( -35, '2000-06-01');

insert into TRANSACTIONS values ( -800, '2000-07-01');

insert into TRANSACTIONS values ( 3000, '2000-07-05');

insert into TRANSACTIONS values ( -900, '2000-07-10');

insert into TRANSACTIONS values ( -30, '2000-08-11');

insert into TRANSACTIONS values ( -90, '2000-08-11');

insert into TRANSACTIONS values ( -30, '2000-08-21');

insert into TRANSACTIONS values ( 900, '2000-09-11');

insert into TRANSACTIONS values ( -100, '2000-09-21');

insert into TRANSACTIONS values ( -200, '2000-09-01');

insert into TRANSACTIONS values ( -9, '2000-09-03');

insert into TRANSACTIONS values ( -3, '2000-09-03');

insert into TRANSACTIONS values ( -11,'2000-10-03');

insert into TRANSACTIONS values ( -1, '2000-10-29');

insert into TRANSACTIONS values ( 900, '2000-11-11');

insert into TRANSACTIONS values ( -100, '2000-11-21');

insert into TRANSACTIONS values ( -200, '2000-11-01');

insert into TRANSACTIONS values ( -9, '2000-11-03');

insert into TRANSACTIONS values ( -3, '2000-11-03');

insert into TRANSACTIONS values ( -100, '2000-12-03');

insert into TRANSACTIONS values ( -1, '2000-12-29');

delete from transactions where date = '2000-04-21'

delete from transactions where date = '2000-12-03'

delete from transactions where date = '2000-04-21'

delete from transactions where date = '2000-10-03'

-- end of table creation--

--update table to add column month and transaction type--

alter table transactions

add column month varchar(20);

update transactions set month = month(date)

alter table transactions

add column transaction\_type varchar(20);

update transactions SET transaction\_type = CASE

WHEN amount>0 THEN 'credit'

ELSE 'Debit'

end;

--end table update---

--------total transaction excluding monthly charges---------------

select sum(amount) as total\_transac from transactions

------------------end of query------------------------------------

----charge per month caluclaton if applicable and totoal debit ----

with new\_transaction (count1, sum1, month1) as

(

select count(\*), sum (amount) , month from (select \* from transactions where transaction\_type = 'Debit') group by month

)

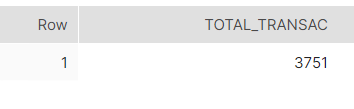
select sum(sum1) as total\_debit , ( count(\*)\* 5) as card\_charges from new\_transaction where count1>3 and sum1<-100;

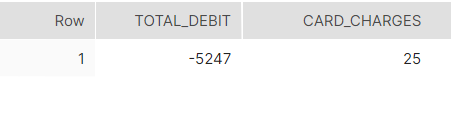
---------------------end of query--------------

--total transaction--

select sum(amount) as total\_transac from transactions

balance = total\_transact-card\_charges





Balance= Total\_transac-Card\_charges =3751-25 = 3726