**FSDA ASSIGNMENT-1**

**Task:1&2**

create or drop database fsda\_testing

use fsda\_testing

--table creation

create table phones(

name varchar (90) not null unique,

phone\_number int not null unique)

--table creation

create table calls(

id int not null,

caller int not null,

callee int not null,

duration int not null,

unique(id))

insert into phones values ('Jack' , 1234 ),('Leena' , 3333),('Mark',9999),('Anna',7582),('John',6356),

('Addison',4315),('Kate',8003),('Ginny',9831)

insert into calls values (25,1234,7582,8),(7,9999,7582,1),(18,9999,3333,4),(2,7582,3333,3),

(3,3333,1234,1),(21,3333,1234,1),(65,8003,9831,7),(100,9831,8003,3),(145,4315,8003,18)

select \* from phones

select \* from calls

alter table calls add constraint foreign key (caller) references phones(phone\_number)

desc phones

desc calls

select name, sum(duration) from phones join calls on phones.phone\_number = calls.caller group by name

select name, sum(duration) from phones join calls on phones.phone\_number = calls.callee group by name

create table from\_caller (Name1 varchar(200), Call\_Duration int);

create table from\_callee(Name2 varchar(200), Call\_Duration int);

insert into from\_caller select name, sum(duration) from phones join calls on phones.phone\_number = calls.caller group by name

insert into from\_callee select name, sum(duration) from phones join calls on phones.phone\_number = calls.callee group by name

select \* from from\_caller

select \* from from\_callee

select \* from from\_caller union select \* from from\_callee

select name from (select name1 as name , sum(call\_duration) as call\_time from (select \* from from\_caller union select \* from from\_callee) as result group by

name having call\_time >=10 order by name) as results

**Task 3:** **Output display is just one column balance**

create table transactions (

ammount int not null,

date date not null)

select \* from transactions

insert into transactions values (1000, '2020-01-06'),(-10, '2020-01-14'),

(-75, '2020-01-20'),(-5, '2020-01-25'),(-4, '2020-01-29'),(2000, '2020-03-10'),(-75, '2020-03-12'),

(-20, '2020-03-15'),(40, '2020-03-15'),(-50, '2020-03-17'),(200, '2020-10-10'),(-200, '2020-10-10')

--table to conduct analysis

create table credit\_card\_fee(

ammount int not null,

date date not null)

insert into credit\_card\_fee values (-5, '2020-01-01')

insert into credit\_card\_fee values (-5, '2020-02-01'),(-5, '2020-04-01'),(-5, '2020-05-01'),(-5, '2020-06-01'),

(-5, '2020-07-01'),(-5, '2020-08-01'),(-5, '2020-09-01'),(-5, '2020-10-01'),(-5, '2020-11-01'),(-5, '2020-12-01')

select \* from transactions

union

select \* from credit\_card\_fee

create table transactions\_1 (ammount int not null, date date)

insert into transactions\_1 values (1, '2020-06-29'), (35, '2020-02-20'), (-50, '2020-02-03'), (-1, '2020-02-26'), (-200, '2020-08-01'),

(-44, '2020-02-07'),(-5, '2020-02-25'),(1, '2020-06-29'),(1, '2020-06-29'),(-100, '2020-12-29'),(-100, '2020-12-30'),(-100, '2020-12-31')

select sum(ammount) as balance from (select \* from transactions\_1

union all

select \* from credit\_card\_fee) as final\_result

select sum(ammount) from transactions\_1

select sum(ammount) from credit\_card\_fee

create table tansactions\_2 (ammount int not null, date date not null)

insert into tansactions\_2 values (6000, '2020-04-03'),(5000, '2020-04-02'),(4000, '2020-04-01'),(3000, '2020-03-01'),

(2000, '2020-02-01'),(1000, '2020-01-01')

select \* from tansactions\_2

--table to conduct analysis

create table cr\_card\_fee\_per\_year (

ammount int not null,

date date not null)

insert into cr\_card\_fee\_per\_year values (-5, '2020-01-01'),(-5, '2020-02-01')

insert into cr\_card\_fee\_per\_year values (-5, '2020-03-01'),(-5, '2020-04-01'),(-5, '2020-05-01'),(-5, '2020-06-01'),

(-5, '2020-07-01'),(-5, '2020-08-01'),(-5, '2020-09-01'),(-5, '2020-10-01'),(-5, '2020-11-01'),(-5, '2020-12-01')

select sum(ammount) as balance from (select \* from tansactions\_2

union

select \* from cr\_card\_fee\_per\_year) as final\_result