**SQL PROJECT – HIRING ABC COMPANY**

**Task 1**

create warehouse priya;

create database priya ;

use priya;

create or replace table shopping\_history(

product varchar 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 product order by product desc ;



**TASK 2**

create table phones(

name varchar(20) not null unique,

phone\_number integer not null unique

);

create table calls(

id integer not null ,

caller integer not null,

callee integer not null,

duration integer not null,

unique(id)

);

Insert into phones values ('Jack', 1234), ('Lene', 3333), ('Mark', 9999), ('Anna', 7582)

select \* from phones;

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)

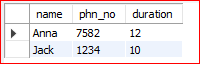
select \* from calls

With call\_details as (select caller as phn\_no, sum (duration) as duration from calls group by caller union

Select callee as phn\_no, sum (duration) as duration from calls group by callee)

Select p. `name` from phones p join call\_details cd on p.phone\_number = cd.phn\_no group by `name` having sum

(duration) >=10



**TASK 2 (2nd question)**

Create table phones1 (

`name` varchar (20) not null unique,

phone\_number int not null unique);

Insert into phones1 values ('John', 6356), ('Addison', 4315), ('Kate', 8003), ('Ginny', 9831);

select \* from phones1;

Create table calls1 (

id int not null unique,

caller int not null,

callee int not null,

duration int not null)

insert into calls1 values(65,8003,9831,7),(100,9831,8003,3),(145,4315,9831,18);

select \* from calls1;

with call\_details1 as

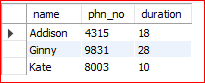
(Select caller as phn\_no, sum (duration) as duration from calls1 group by caller

Union

Select callee as phn\_no, sum (duration) as duration from calls1 group by callee)

Select p1. `name` from phones1 p1 join call\_details1 cd1 on p1.phone\_number = cd1.phn\_no

Group by `name` having sum (duration) >=10 order by (1)





**Task 3**

Create table transactions (

amount int not null,

date date not null);

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,'2020-3-17'), (200,'2020-10-10'),

(-200,'2020-10-10');

select \* from transactions;

Create table transactions (

amount int not null,

date date not null);

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,'2020-3-17'), (200,'2020-10-10'),

(-200,'2020-10-10');

select \* from transactions;

Select sum (t1.balance) - sum (t2.balance) as total\_balance from

(Select 1 as id, sum (amount) as balance from transactions) as t1

Join

(Select 1 as id, count (date)\*11 as balance from transactions where month (date) = 03) as t2

On t1.id = t2.id

**Task 3 (2nd question)**

Create table transactions1 (

amount int not null,

date date not null);

Insert into transactions1 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 \* from transactions1;

Select t1.balance - t2.credit\_charge as total\_balance from

(Select 1 as id, sum (amount) as balance from transactions1) as t1 join

(Select 1 as id, count (date)\*10 as credit\_charge from (select \* from transactions1 limit 5) as tt) as t2

On t1.id = t2.id

**Task 3(3rd question)**

Create table transactions2 (

amount int not null,

`date` date not null);

Insert into transactions2 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 transactions2;

Select t1.balance - t2.credit\_charge as total\_balance from

(Select 1 as id, sum (amount) as balance from transactions2) as t1 join

(Select 1 as id, count (`date`)\*10 as credit\_charge from (select \* from transactions2) as tt) as t2

On t1.id = t2.id