SQL ASSIGNMENT

TASK 1

create database Assignment;
use Assignment;
create table shopping_history (
product varchar not null,
quantity integer not null,
unit_price integer not null);
insert into shopping_history values ('peanut butter',28,25);
insert into shopping_history values ('peanut butter',35,20);
insert into shopping_history values ('peanut butter',40,35);
insert into shopping_history values ('peanut butter',25,20);
insert into shopping_history values ('bread',35,20);
insert into shopping_history values ('bread',30,25);
insert into shopping_history values ('bread',25,38);
insert into shopping_history values ('bread',28,28);
insert into shopping_history values ('milk',50,20);
insert into shopping_history values ('milk',20,22);
insert into shopping_history values ('milk',32,25);

insert into shopping_history values ('milk',40,37);
insert into shopping_history values ('curd',10,15);
insert into shopping_history values ('curd',15,20);
insert into shopping_history values ('curd',12,18);
insert into shopping_history values ('curd',18,14);
select * from shopping_history;
select product, sum(quantity * unit_price) as total_price from shopping_history group by product;
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task 2 : Q1
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));

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insert into phones(name,phone_number) values ('jack',1234),
('lene',3333),
('mark',9999),
('anne',7582);
select * from phones;
insert into calls (id,caller,callee,duration) 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_time as(
select caller as phone_number , sum (duration) as duration from calls group by caller
union all
select callee as phone_number, sum (duration) as duration from calls group by callee)
select name
from phones p join call_time ct on ct.phone_number =p.phone_number
group by name
having sum(duration)>=10
```

order	bγ	name	:

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task 2 : Q2
create or replace table phones (name varchar(20) not null unique,
phone_number integer not null);
create or replace table calls(id integer not null,
caller integer not null,
callee integer not null,
duration integer not null,
unique(id));
insert into phones (name,phone_number) values ('john',6356),
('addison',4315),
('kate',8003),
('ginny',9831);
select * from phones;
insert into calls (id,caller,callee,duration) values(65,8003,9831,7),

(100,9831,8003,3),
(145,4315,9831,18);
select * from calls;
with call_time as(
select caller as phone_number, sum(duration) as duration from calls group by caller
union all
select callee as phone_number , sum(duration) as duration from calls group by callee)
select p.name from phones p join call_time as ct on p.phone_number = ct.phone_numbe
group by name
having sum(duration) >=10
order by name;

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Task 3: Q1

create or replace table transactions (

amount integer not null,

date date not null);

insert into transactions (amount ,date) values (1000,'2020-01-06'),

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(-10,'2020-01-14'),
(-75,'2020-01-20'),
(-5,'2020-01-25'),
(-4,'2020-01-29'),
(2000, '2020-03-12'),
(-75,'2020-03-12'),
(-20,'2020-03-15'),
(40,'2020-03-15'),
(-50,'2020-03-17'),
(200,'2020-10-10'),
(-200,'2020-10-10');
select * from transactions;
select sum(amount) - 55 as balance from transactions;
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TASK 3:Q2
create or replace table transactions(amount integer not null,
date date not null);
select * from transactions;
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insert into transactions (amount, date) values (1,'2020-06-29'),

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(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 transactions;
select sum(amount) - 10 ^{\star} 5 as balance from transactions ;
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TASK 3:Q3
create or replace table transactions (
amount integer not null,
date date not null);
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select * from transactions;

