ASSIGNMENT3

WASIM RAZA

---Q1 SOLUTION

```
create database assignment3

use assignment3

select *from owners

select *from pets

select *from proceduresdetails

select *from procedureshistory

select a.name as pet_name,b.name as owner_name from pets as a join owners as b on
a.ownerid=b.ownerid

select a.*,b.city from pets as a join owners as b on a.ownerid=b.ownerid where city in
('grand rapids','southfield')

select a.name as pet_name,b.proceduretype from pets as a join procedureshistory as b on
a.petid=b.petid

select a.petid,b.proceduretype,b.description from procedureshistory as a join
proceduresdetails as b on a.proceduretype=b.proceduretype

select a.petid,b.proceduretype,c.description from pets as a join procedureshistory as b
on a.petid=b.petid
join proceduresdetails as c on b.proceduretype=c.proceduretype

select a.petid,sum(b.price) from procedureshistory as a join proceduresdetails as b on
a.proceduretype=b.proceduretype group by a.petid

select a.petid,c.name,sum(b.price) as totat_price from procedureshistory as a join
proceduresdetails as b on a.proceduretype=b.proceduretype
right join pets as c on a.petid=c.petid where c.name like 'C%'  group by a.petid,c.name

select a.petid,c.name,d.name,sum(b.price) as totat_price from procedureshistory as a join
proceduresdetails as b on a.proceduretype=b.proceduretype
right join pets as c on a.petid=c.petid right join owners as d on c.ownerid=d.ownerid
where d.name like 't%'  group by a.petid,c.name,d.name

select ownerid,count(name) as no_of_pets from pets group by ownerid having count(name)>1

select a.petid,a.kind,count(b.proceduretype) as no_of_proc from pets as a join
procedureshistory as b on a.petid=b.petid where kind='dog' group by a.petid,a.kind

select a.name,avg(d.price) as avg_price from owners as a join pets as b  on
a.ownerid=b.ownerid join procedureshistory as c on b.petid=c.petid
join proceduresdetails as d on c.proceduretype=d.proceduretype group by a.name
```

ASSIGNMENT3

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---Q6 SOLOUTION

create table ref_table(
card_number int,
transaction_id int,
transaction_amount int,
dates varchar(20))

insert into ref_table(card_number,transaction_id,transaction_amount,dates) values
(110001,1070,4,'08-09-2018'),
(110001,1065,16,'24-09-2018'),
(110002,1098,15,'16-09-2018'),
(110004,1090,13,'09-09-2018'),
(110005,1001,5,'22-09-2018'),
(110006,1027,8,'01-09-2018'),
(110007,1046,17,'04-09-2018'),
(10008,1053,8,'16-09-2018'),
(110009,1018,10,'15-09-2018'),
(110010,1093,13,'20-09-2018'),
(110011,1028,19,'26-09-2018'),
(110012,1055,15,'01-09-2018'),
(110013,1060,11,'01-09-2018'),
(110014,1059,8,'08-09-2018'),
(110001,1078,14,'16-09-2018'),
(110001,1012,10,'09-09-2018'),
(110002,1082,18,'17-09-2018')
 select *from ref_table

 select top 5 card_number,transaction_amount from ref_table where transaction_amount in
(select top 5 transaction_amount from ref_table order by transaction_amount desc)
 group by transaction_amount,card_number

 select top 2 card_number,transaction_amount,dates from ref_table where
transaction_amount in (select top 2 transaction_amount from ref_table where dates='16-09-
2018' order by transaction_amount desc) group by card_number,transaction_amount,dates
```