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**Preparing some data**

update employee set superssn = 'null' where ssn = '888665555';

update employee set superssn = 'null' where ssn = '999887777';

update employee set superssn = '888665555' where ssn = '123456789';

update employee set superssn = '888665555' where ssn = '453453453';

update employee set superssn = '999887777' where ssn = '987654321';

update employee set superssn = '999887777' where ssn = '666884444';

update employee set superssn = '999887777' where ssn = '443445555';

**Exercise 1 Views**

**1.1**

create or replace view firstView as select \* from works\_on;

select \* from firstView;2

**1.2**

create or replace view secondView as select sum(hours) from works\_on;

select \* from secondView;

**1.3**

create or replace view thirdView as

select essn as "EMP#", fname as "EMP\_Name", pno as "PROJ#", pname as "Project Name" , hours, hours\*300 as "Cost"

from works\_on inner join employee on essn = ssn inner join project on pno = pnumber

select \* from thirdView

**1.4**

create or replace view FourthView as

select dname as "Department Name", fname as "Manager Name", salary as "Manager Salary"

from department inner join employee on ssn=mgrssn

select\* from FourthView

**1.5**

create or replace view supervisor as

select fname as "name1", ssn as "ssn1" from employee where superssn = 'null'

select \* from Supervisor

create or replace view departmentView as

select dname as "departmentname", dnumber from department

create or replace view FifthView as

select fname as "EmployeeName", name1 as "SuperVisorName", salary from employee inner join supervisor on ssn1 = superssn inner join departmentView on dno = dnumber

select \* from FifthView

**1.6**

create or replace view SixtView as

select pname as "Project name", dname as "Dept\_Name", count(ssn) as "NmbrOfEmployees", sum(hours) as "Total hours"

from works\_on inner join employee on essn = ssn

inner join project on pno = pnumber

inner join department on pnumber = dnumber

group by pname, dname, ssn

having count(ssn)>0

order by ssn desc;

select\*from SixtView

**1.7**

create or replace view TempView as

select pname as "projectname", dname as "deptname", count(ssn) as "nmbrofemployees", sum(hours) as "totalhours"

from works\_on inner join employee on essn = ssn

inner join project on pno = pnumber

inner join department on pnumber = dnumber

group by pname, dname, ssn

having count(ssn)>0

order by ssn desc;

create or replace view SeventhView as

select projectname, deptname, sum(nmbrofemployees) as "totalemployees", sum(totalhours) as "totalhours" from TempView

group by projectname, deptname

select \* from SeventhView

**1.8**

create or replace view tempView1 as

select fname, MAX(salary) as "salary"

from employee inner join department on dno = dnumber

group by fname, salary

order by salary desc;

select \* from tempView1

create or replace view tempView2 as

select max(salary) from tempView1

select \* from tempView2

create or replace view EightView as

select \* from employee where dno = (select dno from employee inner join tempView2 on salary = max )

select \* from EightView

**1.9**

create or replace view nine as

select \* from employee where superssn = '888665555'

**1.10**

create or replace view TempView as

select dname as "deptname", count(ssn) as "nmbrofemployees"

from employee

inner join department on dno = dnumber

group by dname, ssn

having salary>=30000

order by ssn desc;

create or replace view EightView as

select deptname, sum(nmbrofemployees) as "totalemployees" from TempView

group by deptname

select \* from EightView

**1.11**

create or replace view EleventhView as+

select fname as "Name", lname as "Last Name", salary as "Salary", address as "Address"

from employee group by fname, lname, salary, address

select \* from EleventhView

**Exercise 2 Triggers**

set search\_path = 'COMPANY';

select \* from works\_on

**2.1**

create table log\_works\_on

(

essn varchar(9),

day\_time timestamp

);

create or replace function log\_for\_works\_on() returns trigger as $BODY$

declare

count\_works\_on integer;

begin

if(tg\_op='INSERT') then

insert into log\_works\_on (essn, day\_time)

values (new.essn, now());

return new;

end if;

return null;

end;

$BODY$ language plpgsql;

create trigger log\_insert

before insert on works\_on for each row

execute procedure log\_for\_works\_on();

create trigger log\_update

before update on works\_on for each row

execute procedure log\_for\_works\_on();

create trigger log\_delete

after delete on works\_on for each row

execute procedure log\_for\_works\_on();

insert into works\_on (essn, pno, hours)

values ('234567891', 2 ,34);

update works\_on set hours = 35 where essn = '666884444';

delete from works\_on where essn = '3334455S5';

select \* from works\_on;

select \* from log\_works\_on;

**2.2**

create or replace function max\_4\_projects() returns trigger as $$

declare

log\_count integer;

Begin

select pnumber into log\_count from project where pnumber = new.pnumber;

if log\_count > 4 then raise exception 'Too many projetcs';

end if;

return new;

end;

$$ LANGUAGE plpgsql;

create trigger max\_4\_projects

before insert or update on project

for each row

execute procedure max\_4\_projects();

insert into project (pname, pnumber, plocation,dnum)

values ('PC', 7 ,'horsen',4);

insert into project (pname, pnumber, plocation,dnum)

values ('window', 2 ,'aarhus',5);

select \* from project

**2.3**

create or replace function max\_4\_projects\_works\_on() returns trigger as $$

declare

log\_count integer;

Begin

select pno into log\_count from works\_on where pno = new.pno;

if log\_count >4 then raise exception 'Too many projetcs';

end if;

return new;

end;

$$ LANGUAGE plpgsql;

create trigger max\_4\_projects\_works\_on

before insert or update on works\_on

for each row

execute procedure max\_4\_projects\_works\_on();

insert into works\_on (essn, pno, hours)

values ('888889999', 5 ,30);

insert into works\_on (essn, pno, hours)

values ('222223333', 2 ,35);

**2.4**

create table log\_department

(

dname varchar(20),

dnumber integer,

mgrssn char(9),

day\_time timestamp

);

create or replace function log\_for\_department() returns trigger as $BODY$

declare

count\_department integer;

begin

if(tg\_op='INSERT') then

insert into log\_department (dname,dnumber,mgrssn,day\_time)

values (new.dname,new.dnumber,new.mgrssn, now());

return new;

end if;

return null;

end;

$BODY$ language plpgsql;

create trigger log\_insert

before insert on department for each row

execute procedure log\_for\_department();

create trigger log\_update

before update on department for each row

execute procedure log\_for\_department();

create trigger log\_delete

after delete on department for each row

execute procedure log\_for\_department();

insert into department (dname,dnumber,mgrssn)

values ('Secretary', 2 ,'222223333');

update department set dnumber=6 where mgrssn = '333445555';

delete from department where mgrssn = '222223333';

select \* from department;

select \* from log\_department;

**Exercise 4**

Reverse engineering

**A picture containing photo

Description generated with high confidence**

**Exercise 5**

Reverse engineering

**0A picture containing text, photo

Description generated with high confidence**

Relationship between Research and invoice should be one to many. We mistakenly wrote other way around.

**Exercise 6 Transactions**

* 1. **Log file**

![A screenshot of text

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFsZXgAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxMAAAkpIAAgAAAAMxMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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C4k1eOyuo7u7Zcnz9mEJgO6JxyJMKQCCFNWtY1XxLb+JfDcaadA17cRXglsoNSb7Nx5e13kMakgAnpGxBbAGMmjpf5fr+odbf11/wAjuKK89tPE93ceJvDmtT+dZ2Gqx3Wl3dm9xvit7qFmZWB4Bz5Uy7sAkbeO1ZV/qOsyfBvV/ESTXkseoyT6luj1V7Se1tN2YhA3lSAExop24UfO3PNC/r7/APLUaV3b+v6voer0Vynizxxa+FW021kk09LrUFdom1TUVs4FVAu4tKVY5+ZQAFJOT0AJrP0n4q6Vf28d3dxraWBs5Lh7pZvOUSRziB0XYDvXcykOOoYcChauyJvpc7uisvQ9aOtHUSIBFHZ30lojiTd5uwDLdBj5iRjn7vWtSjpcYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGfq2m3WpRRpZ61faSUJLPZpAxf2PmxuMfQCsdfAWn22naVb6VfX2mXGlJIlve2zRmXbIcyBg6MhDNhiNuAQNuMV1FFAHN654Qk8QeGTol/wCI9WEMsbxXU0aWokukbs/7naMDgbAp+tLceD/tMVhI+vaoup2AkWHVEFuJyj43Iy+V5RU4XqmflBznmujooA5++8JjULXTzPrWpDUtOdmg1WPyVnG4YYFRH5RBHGCmOAeozUuo+GE1bw7HpepanfTyxSpPHqH7pJ1kRw6ONqBMggcbMEdQa26KAKunWk1jYpBc6hc6jIpObi6WNXbJ7iNEXjpwoq1RRQAVQ1nR7fXNN+xXbyJH50M+YiAd0ciyL1B4ygz7Zq/RQBRvNIgvtV07UJXkEunPI8SqRtYuhQ7uPQ9sc1T1vwzFrN9Z6hDqF7peo2aukV5ZGPf5b43xssiOjKSqnlSQVBBFbVFAHG3Hww0S4sxbtPfLmzuLSWQSqXm8+RJJJWJU5kLRg56cnjpjodG0S20OO7S0eVxd3cl2/mkHDuckDAHHp/OtGij+v1Ao3mkQX2q6dqEryCXTnkeJVI2sXQod3Hoe2Oap634Zi1m+s9Qh1C90vUbNXSK8sjHv8t8b42WRHRlJVTypIKggitqigDlm8A2Udpp6abqWpaddWLzSLfW8kbTTNNzKZPMRlYufmPy8EDGOlWNL8F6dpMelJbz3jjSpriaEzSh2dpt+7exGW++cHOemSa6GigDM8QaFb+ItL+xXU09uVljnint2AkhkjYMrrkEZBHQgg9xUVv4dEd7p17e6ne6hd6ekyJNcCJTIJdudwjRV42gDAHvmtiigDl9T8AaXqng6Tw5NcXsVu9y10txFIqzRyNKZSVbbgcsR0+6ce9T+IfCEOv8AhsaCmp32l6cYDbSRWIh/exbQu0mSNyAAP4cGuhooDrc5y48H/aYrCR9e1RdTsBIsOqILcTlHxuRl8ryipwvVM/KDnPNLc+DbTULjTbjV7681GawjmiLziIfaUkKkiQIig4KKRtC8qM55roqKHqC02Mrw34ft/DGhRaXZz3FzHGzuZrpw0jszFiWIAB5Pp0xWrRRTbbd2AUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClquk2+s2q293JeRorhwbO9mtXzgj78TKxHPTOPyqG58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8AExz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8THPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/wATHPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8THPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/ABMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8THPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8AExz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8THPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/wATHPfpWnRQBmXPh+zu9Jg02WbUVggIKPFqdxHMcAj5pVkEjdf4mOe/Si58P2d3pMGmyzaisEBBR4tTuI5jgEfNKsgkbr/Exz36Vp0UAZlz4fs7vSYNNlm1FYICCjxancRzHAI+aVZBI3X+Jjnv0oufD9nd6TBpss2orBAQUeLU7iOY4BHzSrIJG6/xMc9+ladFAGZc+H7O70mDTZZtRWCAgo8Wp3EcxwCPmlWQSN1/iY579KLnw/Z3ekwabLNqKwQEFHi1O4jmOAR80qyCRuv8THPfpWnRQBDaWsdlZxW0LStHEoVTNM8rke7uSzH3JJqaiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKoatr2kaBDHNruq2OmRSNtR7y5SFXOM4BYjJqew1Cy1WxjvdLu4L21lBMc9vKsiPg4OGUkHkEUAWKKKKACiiigAoqC+v7TTLKS81K6gs7WIZknuJBGiDOOWPA5NTg5GRyKACiioL6/tNMspLzUrqCztYhmSe4kEaIM45Y8Dk0AT0UA5GRyKoatr2kaBDHNruq2OmRSNtR7y5SFXOM4BYjJoAv0VBZXtrqVnFeadcw3dtMu6OeCQOjj1DDgip6ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA47xnHq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w81HCZfz4MuG3RgkEENk5wcGl0v/X9Lb8Q62/r+nv8AgdFL4x0OPSrPUVu3uIL0kWy2tvLPLKR94CKNS+Vwdw2/LjnFaOmanZ6xpsN/pk63FtMuUkXIz2IIPIIIIIPIIIPNcDd/Du7FrotxplsltcWP2oT2CeIb2NZDOwdn+2KvmltygkMpByR2BrsPC2jroXh+KzFnHZPvklkijvpbwb3cszedKA7kk5JIHJp9xGxVT+1LP+2v7J87/Tvs/wBp8raf9Xu27s4x14xnNW65Dxh4Mn8T6xZyLPHFZNaTWl8N5WQqXjkjKYGDho+ckcMevSp6r+un+ZXT+v62DVfH9hpviSysRMHt3kube4CW0sk3nxrGwjjRRlziTJCq3A9jWk3jPQho9nqcd3JPb3xItktrWWaaUjO4CFFMmVwdw2/LjnFYvhvwhrGn3uk3+sT2cl3C99LfG3dyryTspXZlRkAKAc49qzrv4eap5GlTwTRz3NhPflrePVLmwWSO4mMgInhG8MuFypUqefQGnqtBHU3Hjjw7a6bYX0upKYNRLJaGOJ3aZwCSioqlt/BGzG7I24zxSt400IaXbX6XU0sd1I8UMUNnNJOzoSHXyFQyArg7gV+XHOKy9M8GvZyeHJI7O2s10y5urm4h+3S3h3yo43LLKoZyS+SWx1PWo/FngiTUNT03UtCiiR7Q3AltI9Qn01ZvOKs0nnW4LBtyAkEENk5wQDQ9GC1Os0zU7PWNNhv9MnW4tplyki5GexBB5BBBBB5BBB5qDWNe0/QooX1GSXdO/lwxW9vJcSytgkhY41ZmwAScDgdag8LaOuheH4rMWcdk++SWSKO+lvBvdyzN50oDuSTkkgcmqvjDRZ9ZtbVLXSrS/lglMiSTapNYSW5xjdHLDGzgkEg4K8Hv0olpsC8zSh1yxmmsYQ8sc2oRvLbxTW8kTsqY3ZVlBUjcOGweazrvx14esobWSa+kb7ZLLDbRxWssskzxPskVUVSzEHsByASOATWSPDviiytvDd3DdWWrappcM0NyL64kiWVZAMESqjEldqjJXLjJOCax4tM1/wAOav4Ws4YdN1HUx/aksga5ktoWEkqyZB8uRgcMPlwe/Jxkj3BbI7E+NdB/si01KK7lngvGZLdLe0mlmkZchwIUUyZXB3Db8uOcUlx448O2um2F9LqSmDUSyWhjid2mcAkoqKpbfwRsxuyNuM8Vyt38ONSEemXsFyt1fwTXk11brqdzp8btdSCRtk0OXAVlAAKkMOTg4rX0zwa9nJ4ckjs7azXTLm6ubiH7dLeHfKjjcssqhnJL5JbHU9aOgPyNRvGmhLpNtqK3U0sN1K0MMUNnNJO8i53p5KoZAy7W3ArlcHOKnvfFGl6fp1peXbXaLeHbbwCxna4kOCSBAEMmQASfl4HXFZ3ifw0t7ZQRaVoWn3Dpcvc7zqMumvDI2d0iSwRs+5snd0zk5JzVG88L6vP4R0ewv7e113UrI7nu59VnsZIWwQDHPFG0hODtLfKWAyepFLp9wdTav/GOi6ZDYvfS3UT6grNa2/2Gczy7cZAhCb9wBB27c4ycYBxoaVqtlrelwajpc4ntZ1yj7SvfBBBAIIIIIIBBBBrn9K8Navb3Phq41XUI72fS7W4hupWZi7tJs24JHzYC4LHBOMkZJrU8K6RPoehfYrt43k+1XM2YiSMSTvIvUDnDDPvVdxdETav4j0Tw+Ijr2safpgmz5X226SHzMYzt3EZxkdPWp9N1XT9ZslvNHv7a/tWJCz2syyoSOCAykjioNX0K01sRC8m1CLys7fsWo3FpnOPveS67unfOO3Wp9N02DSrJbW1e5kjUkhrq6luH59XkZmP58Ul5jfkVNa8T6T4emtYdUnkSa73fZ4YbeSeSYrjcFSNWZiAQcAZxk9AcLYeJ9H1RdPawvBKNSjkktv3bDeI8B8gj5SCQCGwc5GODTL/SJ7rxbpGqRvGILGG4jkVidxMgTbgYx/Ac8jtXNw+FPEGkrpN1pY026u7G4v2kgubiSKN47mUupDrGxDL8uRtweeehKAu+LvE95a+Ar/xH4Tu7Jl09J5JFvLSSRZTEWVkGHQqdykbvmHHTvVjx3q+saH4Jvdb0SaxSWwt3uZI7y2eVZQq52jbIm057/N9Kw7/wl4nPwruvC9quk3N7qAvFuLmS6lgjj86R3DIojcn7/KkjGOp61o+K9M8U+Ifh/daNBp+jw3moW0ttOX1OUxwAjCsrC3y57kELj1NVoONrq/n/AF+Z2EbF41Y9SAadVTS2v206L+17a2troDDx2tw06D0w7IhPH+yPxq3Q9yI3srhRRRSKCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMueTybeSXG7YpbGeuBUdlc/a7RJ9mzdn5c5xg4oooAnooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/Z)

**6.2 Dirty read problem**

Dirty read anomaly occurs when someone is making changes to a database and does not commit the modifications. Once a user tries to access that data which hasn’t been committed he will be able to read the data but not see the changes that have been made.

In other words, he can see certain data that might not be there anymore.

* 1. **Non-repeatable read**

The non-repeatable anomaly occurs when one operator issues a read transaction command but after an update is issued by a second user on the same table in which the first command was originally executed. If the first command is issued again than it will not work anymore as the first time. This is due because the table has been updated after the first read command has been executed and changes which do not support it have occurred.

**6.4 Phantom read**

The phantom read anomaly occurs when there are multiple transactions and in the case of one transaction changing the content of a table, then another transaction will have different results when calling that table due to it being modified from the previous transaction.

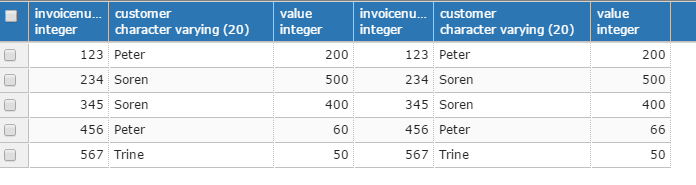
**Exercise 7**

1. **Invoices who were paid**
   * 1. **Inner joins**

SELECT P.\*,D.\*

FROM PAYMENTS P,DEBTORS D

WHERE P.INVOICENUMBER=D.INVOICENUMBER;

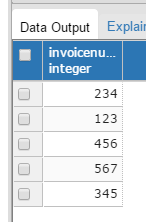


* + 1. **Intersect**

(SELECT INVOICENUMBER FROM PAYMENTS)

INTERSECT

(SELECT INVOICENUMBER FROM DEBTORS)

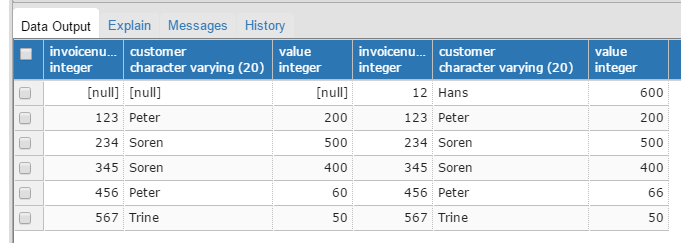


* + 1. **Left outer join**

SELECT P.\*,D.\*

FROM DEBTORS D LEFT JOIN

PAYMENTS P ON D.INVOICENUMBER= P.INVOICENUMBER;



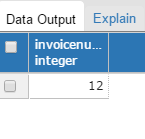
* 1. **Invoices that have not been paid**

**Except**

(SELECT INVOICENUMBER FROM DEBTORS)

EXCEPT

(SELECT INVOICENUMBER FROM PAYMENTS)



* 1. **Make a list of customers who have an invoice but have not paid**

**Except**

(SELECT INVOICENUMBER FROM PAYMENTS)

EXCEPT

(SELECT INVOICENUMBER FROM DEBTORS)

