

Date: Nguyễn Phê Đức 20194515 trang 1 tổng số trang 2.

Câu 1:

$r = (A \ B \ C)$			$s = (C \ D \ E)$			$t = (C \ E)$	
a_1	b_1	1	1	d_1	1	1	1
a_1	b_2	1	1	d_1	2	1	2
a_2	b_1	2	2	d_2	1		
			2	d_2	2		

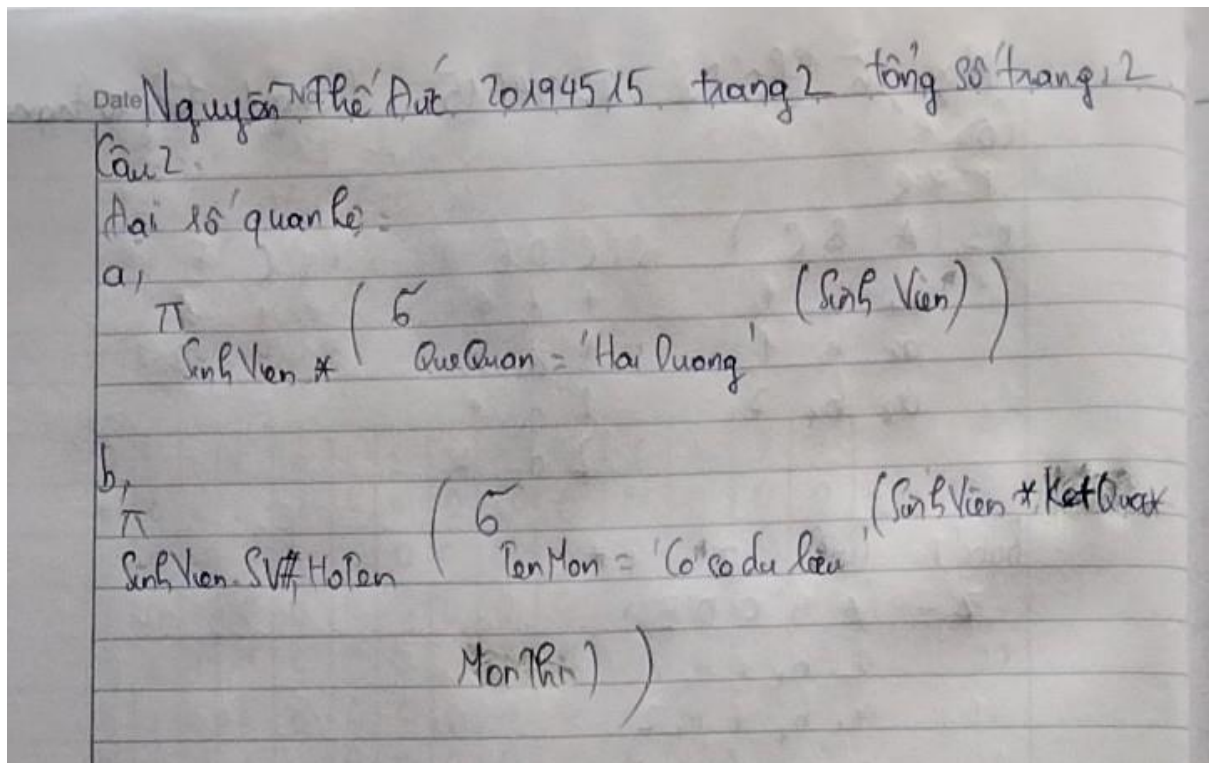
Bước 1: Tính $Z = r * s$

$Z = (A \ B \ C \ D \ E)$

a_1	b_1	1	d_1	1
a_1	b_1	1	d_1	2
a_1	b_2	1	d_1	1
a_1	b_2	1	d_1	2
a_2	b_1	2	d_2	1
a_2	b_1	2	d_2	2

Bước 2: Tính $(r * s) \div t = Z \div t$

$Z \div t = (A \ B \ D)$				
a_1	b_1	d_1		
a_1	b_2	d_1		



Câu 2, SQL:

```
create table SinhVien(
    SV# int primary key,
    HoTen varchar(50),
    Lop char(2),
    QueQuan varchar(50),
    NgaySinh date
)

create table MonThi(
    MT# char(3) primary key,
    TenMon varchar(30),
    SoTinChi int
)

create table KetQua(
    SV# int,
    MT# char(3),
    Diem int,
    constraint FK_SV foreign key(SV#) references SinhVien(SV#),
    constraint FK_MT foreign key(MT#) references MonThi(MT#),
    primary key(SV#, MT#)
)

--a
select * from SinhVien where QueQuan like '%Hai Duong%';

--b
select S.SV#, HoTen from SinhVien S, MonThi M, KetQua K where S.SV# = K.SV# and M.MT# = K.MT# and TenMon = 'Co so du lieu';
```

```
--c
select sum(diem) as TongDiemThiCacMon from KetQua where SV# = 20111625 group by SV#;
--d
select SinhVien.SV#, HoTen, Lop, QueQuan, NgaySinh from SinhVien inner join KetQua
using(SinhVien.SV#) group by SinhVien.SV#, HoTen, Lop, QueQuan, NgaySinh
having sum(Diem) >= all (select sum(Diem) from KetQua group by SV#);
```