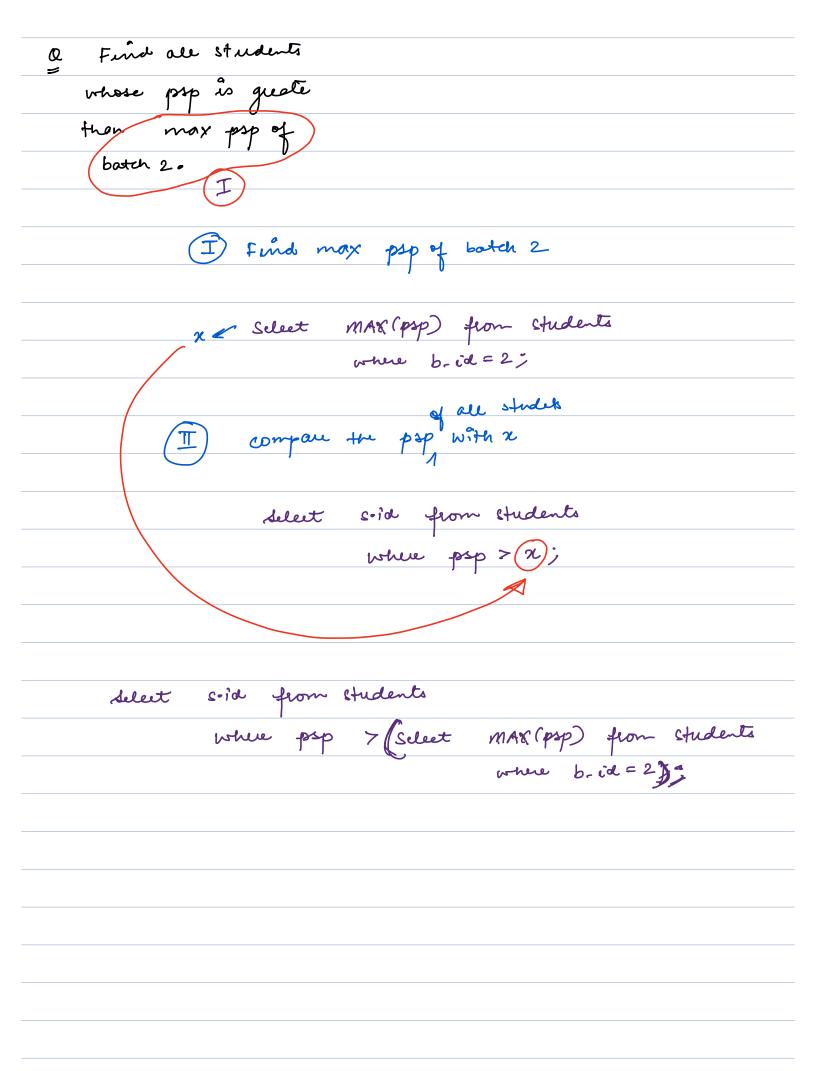
Agenda	
<del>- 0</del>	- Subqueie
	- IN
	- FROM
	- ALL , ANY
	- Correlected subqueies
	- Exists

```
Q Find ale students
id, name, psp, b-id
                               whose psp is greate
                                 then max psp of booten 2.
           for all students (s):
                  if s \cdot batch = 2

x = max(a, s \cdot psp);
           ans = W
         for all students (S)
                 2 5. bsb > x
                    ans append (s);
   Find all the students whose psp is
            greeter ther student with id = 18.
       select soid, sonome
        from students S
        join students t
            on tild=18 AND c-psp > t. psp >
```

get the psp of student with i'd = 18
2 5 Select psp from students
x select psp from students  where ed = 18;
2 rompare every student psp with x
· · · · · · · · · · · · · · · · · · ·
select soid from students
select soid from students where psp > 2;
select soid from students
where psp > (select psp from students
where id = 18);



## Tradeoff

delect soid from students

where psp > (select psp from students

where id = 18);

s in students;

psp

for t in students:

if tid = 18

psp = tipsp

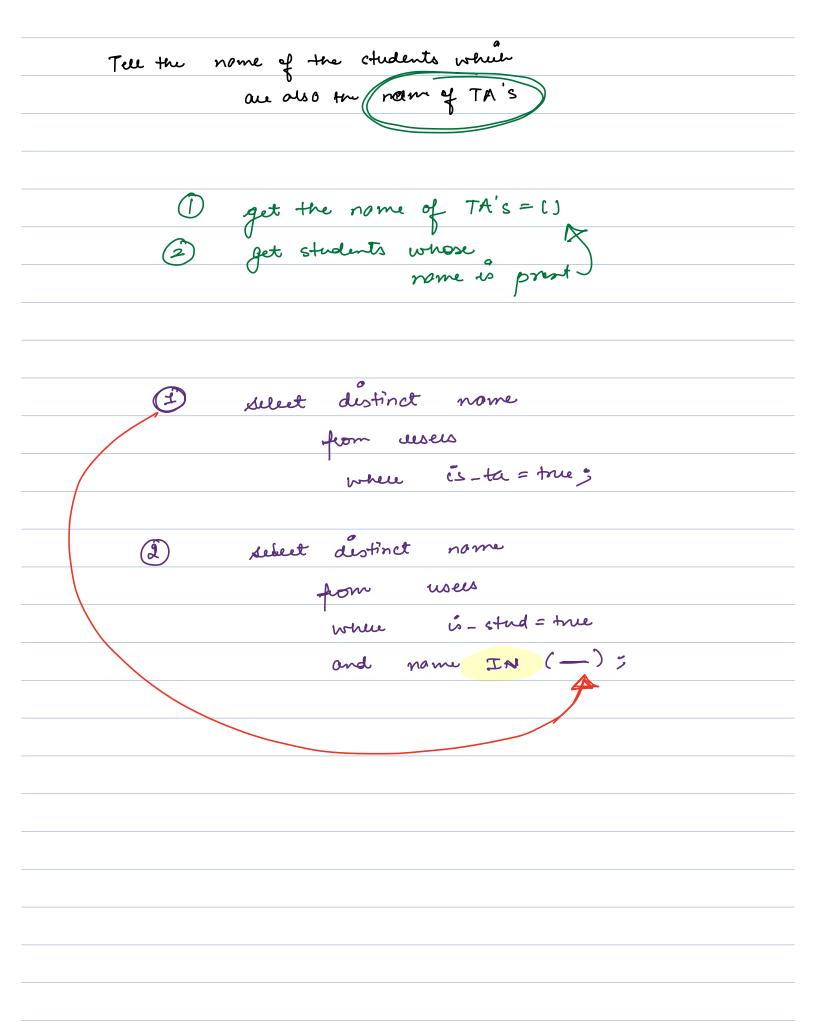
2 2-psp > psp

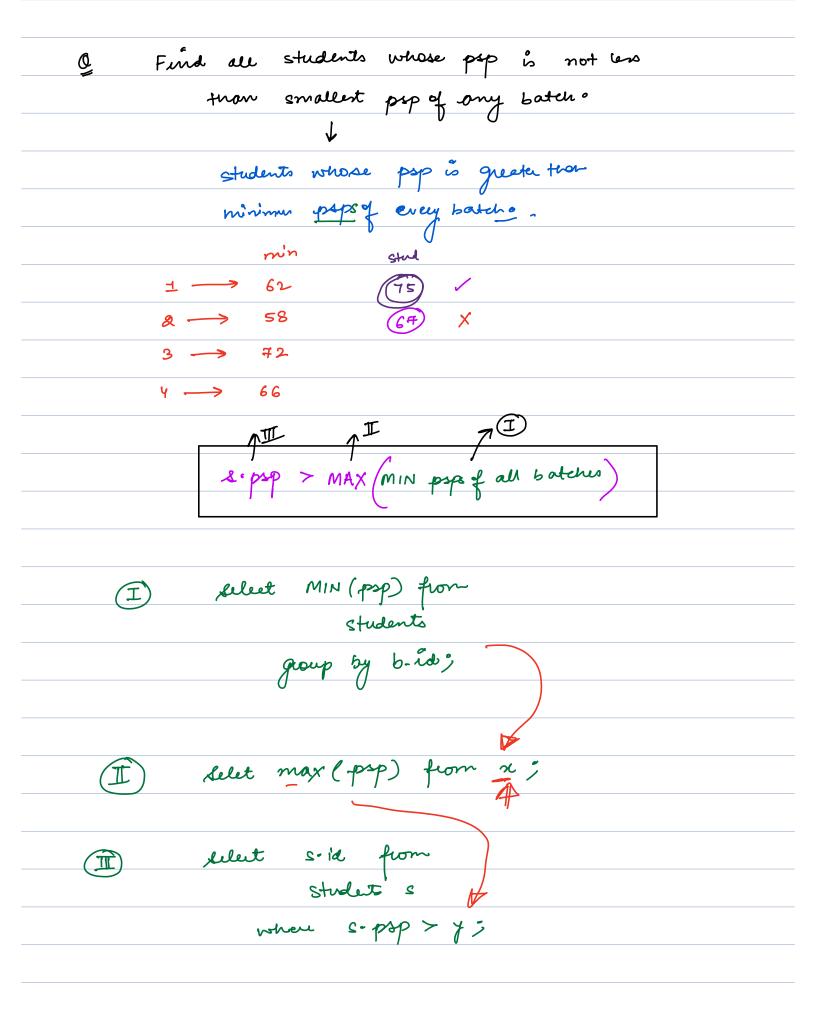
Subquey

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N I	single of
N W	Table
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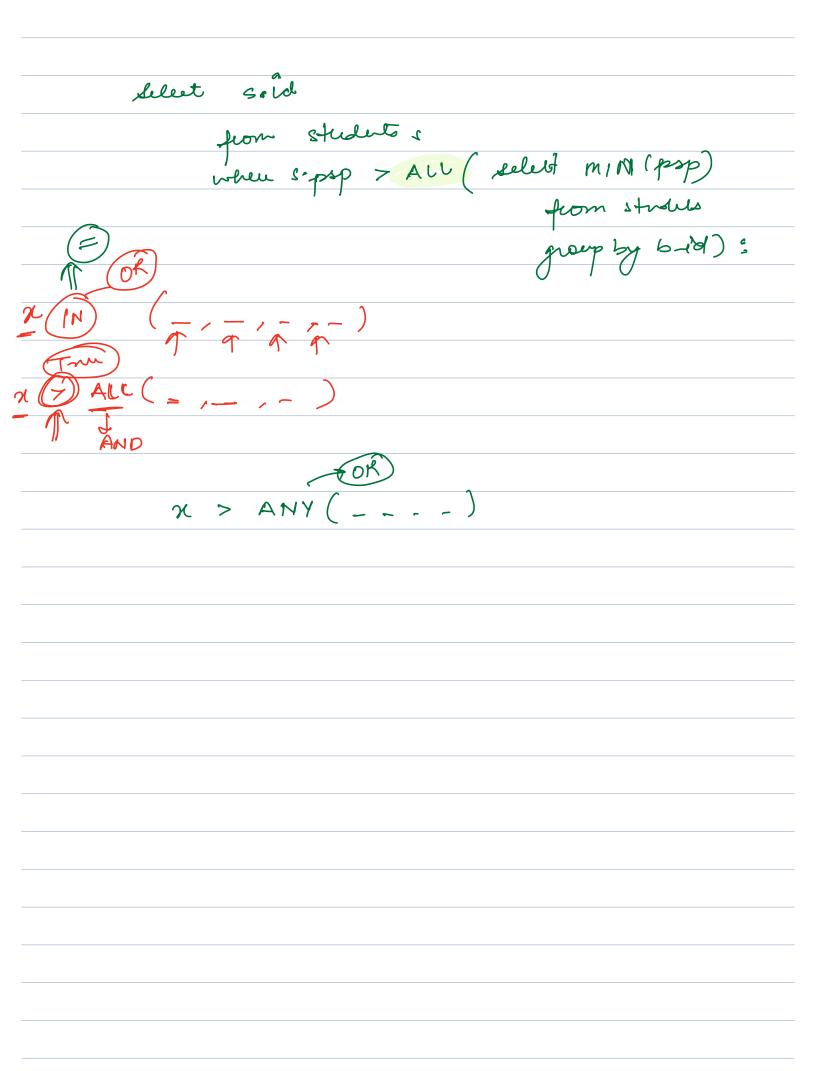
ı.	wer			
ud 1	name is-st	ud s-ta		
Tell :	the name of the	ne cfudents i	sheh	
10-1	the name of the	the nam 4	TA'S	
		<u> </u>		
Íd	none	is-stud	s-ta	
1	Alexhay	ユ	O	
2	Aman	土	O	
3	Akash	1	ı	
Y	Anan	<b>6</b>	千	
\$	Aprohay	0	<del>江</del>	
6	pont	7	土	
7	Mahesh	<del>1</del>	0	
	.Al Mall-			
	Akshay			
	Akash Mohili			
9	Mohali			

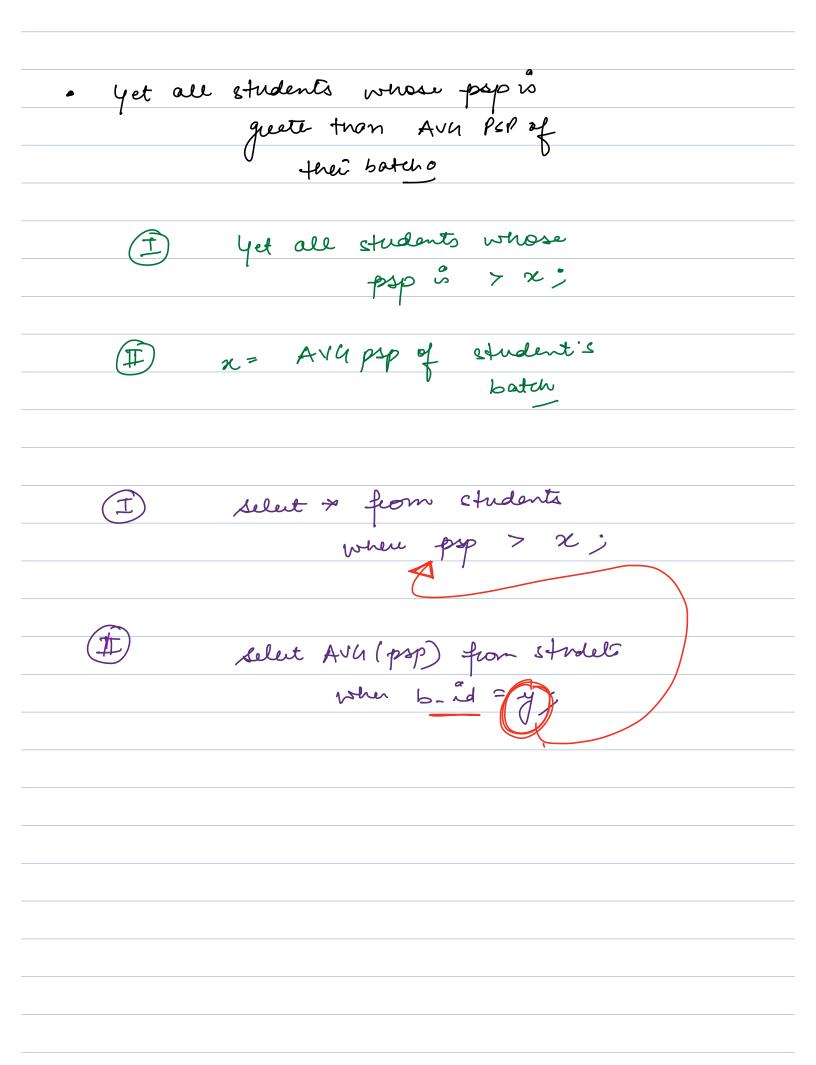
Stud TA
Stud TA id name
Select distinct sonome
Select distinct sonome  from students s  join TA t  on soname = toname;
JOHN IA T
on soname = toname;
usus
ud name is_stud is_ta
<u> </u>
select distinct soname
from users s join users t
on s. is_stud = true
and tois-ta = true
and soname = tonome;





lelet soid from
ellet sid from Studet s
where s-psp >
(and man) lemm
(Select Max ( pp) from (select MIN (ppp), from
Students
group by b-id) minpsp
) j
( ali'as for
alias for the surguey
takle (
WHERE _
d IN collows
FROM _table,
$\chi \rightarrow -,-,-,-$
k is greate them ALC of mins.
True (10,20,40,60,90)





students 5

where psp > (select AVA (psp))

from students

whe b-id = S-b-id) =

correlated a

id	name	psp	b_id
1	X	40	$1 \longrightarrow \underline{36},  (80/3)$
2	Y	60	2
3	Z	20	1
4	A	30	2
5	B	10	3
٤	C	20	
7	<b>P</b>	30	2
8	E	Yo	3

EXISTS yet all the TA's who are also students when stid is NOT NUL; yet all the students who are also the TA's select & from students IN ( select st\_id from TA when Stid is NOT NUW?

SUBQUERIES WHERE IN PROM ALL/ANY CORRIATED EXISTS

Donle	3				
	S	$\mathcal{C}$	الع		
	ld, nam, a	o advar. C, sæd	rd, e	m, c. id, c	LON ,
		bullt			
		form 27	vdels		
		S			
					12
				join -	- 5·12
				de by con	· _ J
			6		
				(Carte	