At	1ENDA
	bluevies - what/why ywords Aulany
E RE	quodes recognity
(3) W	rrelated sq =
(4) su	bgueures W FROM/where
Str	wt by 9:05 PM
	7

```
subjucy - breaks big lub - small
 Advantage:
        your Quevier book easier
              901 \longrightarrow 50 \longrightarrow can be done Naturely.
find all students PSp > student_id=18
                                          (SQL)
             11) Find 129 04 18
             2.) compare...
SQL1: select PSP from stud /
                where id=18;
SQL2: select & from stud
                   where PSp > .x....
                select & from stud where
                      PSP > ( select PSP FLOOM
                          stud where id=18);
    synton -
```

\*\* Unip.

1.) Performance	77	very	slow.
-----------------	----	------	-------

for i.... N: 2 O(N2)

1 yach 20 b1.

2 Anan 40 b2 2.

3 . . . - - - 1 2

4 . . - - - 2 2

COND: S.id=t-stud-id - NOST of JOWS

Pk

#

g.) find all students where PSP?

MAX PSP of b=9 id=2

144

select a from student where

( select Max CPSP) from

student where b-id=2);

#2. Get all films where Arg (Rental-rate)

of films of that yr >

Global Arg Rate.

betting

#Rows	# cols	0/P
1	l	1
1	М	swhle row
М	1	single col
М	N	##

 $(R_1) \times R_2 \times (R_1 \times R_3) \times (R_1 \times R_3)$ 

#

u	2	9	ŁŲ	S
---	---	---	----	---

id	Name	1s-stud	15-ta	
l	yash	0	1	0/P→ "yash"
2	Yash	1	0	
3	Yash	1	1	

# (1) Give Names of stud, which are Also Name of ta.

## wo self jour

select distinct (name)

fund stud s Jow to t on s-name = t-name

AND s. is - stud = true AND trish tae true;

self jow:

select distinct (name)

fuom stud s Jow

stud t ON s.name = t.name s. is - stud = true AND trist tae true; AND SUBQUERY: (1) Get Names of all to Get students Papsent un tal] (2) select distinct (name) from 91.) users where is-to-true, select distinct (name) from users (12.) where 15\_stud = true AND -> O(N2) C×]; name IN USEUS



#### 2 MINS - 80:01

### 10:14 PM IST

## # Subqueries with LOND:

(1) Get AU stud whose rsp > smallest, of Every botch.

students

ia	Name	b-id	M-PSP	
r	-	7	20.	Name PSP
۷	•	2	41.	Yah (47)
3	•	3	19.	
4	-	4	37.	0/p 22

#### Puob:

- (1) Get min 15 P of each botch
  - 2.) Compane > Get all students



select Mun (PSP) from student Group by b-Id;

(2.)

-> student (PSP) > MW PSP of au batches...

we will compare > b-id PSP

Max PSP o fewom ay = 1 20

batches with that · -> 2 (41) Max PSP

```
19
of student
                                       37
              select Max(PSP) from x;
                                     4 (Actually Q1)
(Puob 2.)
               select * fuom student
      q<sub>/3</sub>:
                        where PSp > M;
    full subgrow:
        Select a from stud where PSP >
        - ( select Max (P-PSP) FROM
                      ( select MIN ( PSP) PSP FROM
                             stud Group by bild ) [);
           subply weide from I
   hule: Au sq unside from -> should have alias.
```

```
learning-
              SPL weater virtual table -> it uside from (...)
                 you need to like alias - if Inside From (...)
*) ALL /ANY:
                      Prev Q
                S2·)
       another solution:
               select * fuom students
                    where PSP > ALL (
                     select MIN(PSP) from students
                            Group by b-id);
              student
                                         929
                                b-id
            id 18
                                         42 /
  A11:-
             AND WND
                                         19
            select * fuom studients
```

Q.) Get all students whose PSP>

Avg PSP of own batch.

1.) Get ovg pep of botch - ?? (x)

2.) Get au student, psp > .....

(1) select ovg (PSP) from student where  $b-Ed=\frac{\infty}{2}$ .

92.) select \* fuem students where PSP > .....

Mandatory A Lia &

solution >

select # fuom students

where PSP > (

select ovg(PSp) fuom

student where b\_id = s.b\_id);

for i .... N:

K= i+j

A)	SXISTS	(keyword)

(1) Let all students	who are ako TA:
Studient-	ta ↓
	id Name s_id
id name Psp.  [1] Navan 21-	
LIAMS.	2 Yath NULL
subpublic	2 Navan 1 - 3 Avan 2
1) Get ta id which	
① Get to id which ② Get ou student	w ta-id. ?
-> select 1 fluom	student
where Ed	_
	ect s.id fuom ta
	where s.iol is not nucl),
(W2) Select * fuoi	y students
whome ld	un ( select s-ūd
	from to where
	e-ūd = s·ūd)
$M \rightarrow (id=2,$	id=3) IN Rows
	· —
4 better solution:	
The first sounds .	

	For	
EXIST	for jM	
	if (i=j 22)	
	bucak, =	)
	,	for every
syntax:	select * from students	, sug · v
	where (id) EXISTS ()	
	4	
	(IM)	
outer Q	id=1 (.!o.th.	)
Naman	id=19	
	XXXX	_
	[15,16,.18 21, 22 2000]	
	XXX	
	W Z IS 16 17 18 19	