

## \* Agenda:

- 1. Compound Joins
- 2. Types of Joins

  Inner Join

  Outer Join

  Left Join

  Right Join

  Gross Join
  - 3. Using
    - 4. ON VJS Where
  - 5. Implicit Join
  - 6. Natural Join
- # 14th Day: Write a bot of joins query (10-15).

  -> Solve all assignment questions.



students 2

id	name	Instructor_id	5-id
1	Jim	1	2
2	Jenny	L	- 1

Instruction 2

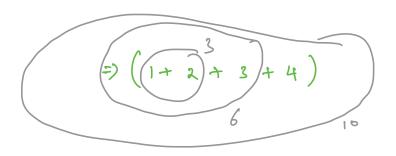
Ы	name	
1	Rahul	
2	Prateck	

batches 2

b-id	botch_name
1	A
2_	В

for every student, give their corresponding instructor name & batch name.

name	Instructor_name	botch_name
Jim	Rahul	В



select of table

from students s

join batches b

on s.batch\_id = b.batch\_id

join instructors i

on s.instructor\_id = i.id

#### \* Compound Joins:

-> for every film, name the films which were recleased 2 years by after current film & 2 years after current film.

name	release-year	rentalrete
Hera Pheni	2008	2_
Robot	2005 /	3
Welcome	2011	4

2000

select
from film f1

join film f2

On f2. release year between f1. year +2 And f1. year -2

and f2. rentsl. rete > f1. rentsl. rete

# In compound joins we have multiple condt on multiple colm.

## Type of Joins:

select \*

from students S

join batches b

On S.id = b.id;

# This type of 'join is called inner 'join.

Students Dotches
Inner your

- # Inner join doesn't include now where condition is not matched.
- PS: (Join) -> inner Join
  inner Join

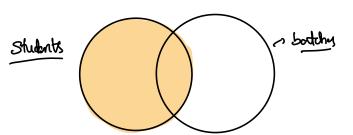
#### Outer Joins:

- -> Outer Toin includes all rows, even though they might not match conditions.
  - 1 (eft Join (left outer 'join)
  - 2 Right Join (Right outer join)
  - 3 full Join (full owter join)

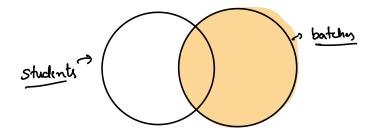
id	name	5-id	bsb
1	John	null	80
2	Jane	1	30
3	Jim	2	85
4	Jenny	3	95
5	Jack	2	78

	b_id	name
X	1	A
The same of the sa	2	В
	3	C
	4	D

# In inner join we will miss upon John's data



=) It gives all data which matches condition =) It gives all data from left table for which condt doesn't match for corresponding fields in batches it fills Null values. \* Right Join:



select \*

from students s

right join batches b

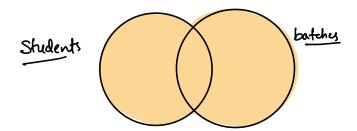
on S.id = b.id;

# Gives all data for which condt maches.

# Gives all right table (botches) data even though
for which condt doesn't match.

# for empty fields on left side fill null.

\* Lull Join



Select \*

From students s

full join batches b

on S.id = b.id;

\* Cross Join:

select \*
from Students S
cross join botches 5;

# Cross Join gires us all possible combinations
of left & right table

Colos

Ьі	Colons	
1	Red	
2	Bleck	

Sizey

Ьі	Size
1	Μ
2	L

M

N

id	color	id	Size
1	Red	1	M
1	Red	2	L
2	Black	1	W
2	Black	2	L

### \* Natural Joins:

id	name	Phn_no

ίδ	Phu-no.

select \*
from table1
Natural join table2

ff Joins table 1 d table 2 using colon name which are some across both tables.

# \* Join using ON VIS WHERE?

- => If we will use 'where' in 'join statement instead of '000' then the 'join will naturally act as a '(ross Join'.
  - >> Where will work, but it will be inefficient.
  - >) Writing queries with 'on' are faster.

students

id I name

employ as

id I name

investors

id | name

select name from students

Union

Select name from investors;