Delete it is used to remove one or many rows in your table based on certain conditions. · delete all the records from the table. delete from {table\_name} the records from table delete all Where delete from students age = 22; where where email is null. · delete all rows delete from students where email is nell;

## SNIOL

it	i's	used	when	we	hav	10	to	cov	nbine
two	08	most	e ta	ble	on	0	relat	ed	column
betwo	een	them							

# gnstructors (i)

## departments (d)

inst-id	name	inst-age	dept-id	dept-id	Name	dent_nod
101	Aditya	28	204	201	competer	×
102	divyansky	38	203	202	m echanical	>
(03	A poorva	2 9	202	203	civif	2
104	naris h	32	need	204	Physic	A
105	kynal	42	201	202	chemistry	ß

*	get	all	instructor	name	with	their	department
	name -						

#### virtual table

9.inst-id	g. name	1 inst-age	g.dept-id	ddept-id	d. name	Ideni-nod
101	Aditya	28	204	204	Phytic	A
102	div yansh4	38	203	203	civif	2
(03	A poorva	2 9	202	202	mechanical	Y
102	kynal	42	201	201	competer	Y
9						

select g. name d. name

from combine table

where condition 9. dept\_id = d. dept\_id;

Select Iname, diname

from Instructors (9) - nick name

Join departments &

ON 9 - aept-id = d · aept-id;

types	ot	Joins
-------	----	-------

4)	inner	Join
----	-------	------

from both tables that have matching values in the specific columns.

matched records.

select J.name, d.name

from Instructors (1)

inner Join departments (1)

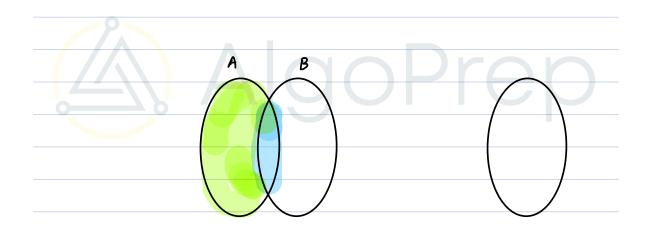
ON J. dept-id = d.dept-id;

### Outer joins

if any row from A is not match with any row from table B and vice verso.

is cest outer join / left join

the matched rows from the left table and



## gnstructors (i)

## departments (d)

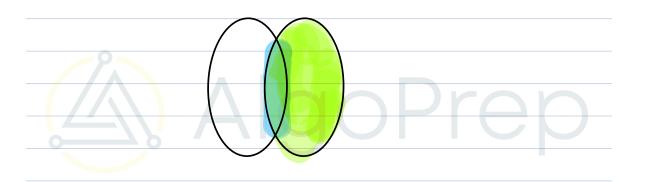
inst-id	name	inst-age	dept-id	dept-id	name	dent_nod
101	Aditya	28	204	201	competer	×
102	div yansh4	38	203	202	m echanicaf	4
(03	Apoorva	2 9	202	203	civif	2
104	naris h	32	need	204	bnasic	Α
102	kynal	42	201	205	chemity	ß

sinst-id	g. name	jinst-age	J.dept-id	ddept-id	d. name	J-deni-nod
101	Aditya	28	204	204	<b>PHYTIC</b>	A
102	divyansky	38	203	203	civif	2
(03	A poorva	29	202	202	mechaniaf	Y
102	kynal	42	201	201	compater	Y
104	horis h	35	null	null	nall	nall
(0)	710-71-5	7.3		,,,,,,	-	

select Iname, diname
from Instructors (9)
'lett Join departments @
ON 9 · dept-id = d · dept-id;

# ii) right join

all the rows from right side and the matched rows from lett side.



## gnstructors (i)

## departments (d)

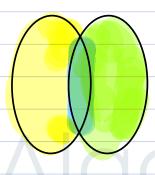
inst-id	name	inst-age	dept-id	dept-id	name	deni-noq
101	Aditya	28	204	201	competer	X
102	div yonsh4	38	203	202	m echanicof	٧
(03	Apoorva	2 9	202	203	civif	2
104	naris h	32	need	204	Phytic	Α
102	kynal	42	201	205	chemisty	ß
105	kynal	42	201	502	chemisty	

hinst-id	g. name	jinst-age	9, dept-id	ddept-id	d. name	J-dent_nod
101	Aditya	28	204	204	phytic	A
102	div yonshy	38	203	203	civif	2
(03	A poorva	29	202	202	mechaniaf	Y
102	kynal	42	201	201	compater	Х
neel	null	null	null	205	chemisty	B

select Iname, diname  from Instructors (1)  right Join departments (1)  and and tide added id:		giname, diname
right Join departments @		
	from	Instructors (9)
and and id = dident id;	right	Join departments @
ON Jacket and addition	ON	9-aept-id = d-aept-id;

# (iii) full join

all	rows	from	both	tables	either
if	is v	natched	or n	o t ·	



9.inst-id	g. name	jinst-age	g.dept-id	ddept-id	d. name	1-deni-nod
101	Aditya	28	204	204	<b>Shall</b>	<b>#</b> )
102	div yonsh4	38	203	203	civif	2
(03	Apoorva	2 9	202	202	mechanical	Y
102	kynal	42	201	201	compater	Y
104	horis h	35	null	null	null	nall
ney	null	null	null	203	chemisty	B

select Iname, diname not supported from Instructors (9) > in mysel. full Join departments @ 9-aept-id = d.aept-id; ON select Iname, diname from Instructors (9) > 'lett join departments @ ON 9-aept-id = d-aept-id UNION select Iname, diname from Instructors (9) > right join departments @ ON 9 · dept-id = d · dept-id; break till 9:35

s) self soin

it is a regular join, but the table joined itself.

#### employee table

2-id	name	email	mangerid
101	Aditya	ak@	104
102	div yansh4	xy20	104
(03	A poorva	x321@	nul
104	naris h	K721@	103
102	kynal	K 12 20	107

get all emp-name with their manger name

Select e. name, m. name

from employee e

join empcoyee m

on e. manager-id = m. e\_id;

using it is the replacement of on keywood. select Iname, diname from Instructors (9) > inner join departments @ using dept-id we can only use this keyword where should be same. column name the Natural joins A natural join is type of join operation that automatically matche column with the same name in the both tables being joined. select \* from instructors natural join departments;

cross join \* it gives the cartesian product of two tables - all possible combinations of rows from both tables. 49 16 1C 1d Je a b 2 C a L 42 (h) select \* from instructor cross join departments.

8) get all the row of students with instructor name

## student

#### coyse

s-id	s. nave	C_id	c-id	C-Name	i, id	
101	aditya	201	201	english	302	
102	Roult	204	202	o hemisty	30	
103	A pool va	201	213	Physics	304	
104	so hail	202	204	Biocogy	30 3	
105	Rakesh	204				
	9					

### instructor

ادد	i'- namb	email
i_id	( - 114041-	ENDIA
1 02	×	abc 10
30 2	7	abcz 🜒
393	Z	abc 30
304	A	abc 40

```
select s.*, i. instructor-name

from student s

Join coarse C

on s. c_id = c. c_id

Join instructor i

on c. i_id = i. i_id;
```

```
-- get all rows inst_id , inst _name , email , department name and hod
26
27
      select i.instructor_id , i.instructor_name as inst_name , i.email ,
28 •
       d.department_name , d.hod_name
29
30
      from instructors i
      join departments d
31
32
      on i.department_id = d.department_id;
33
34
35 •
      select i.instructor_id , i.instructor_name as inst_name , i.email ,
36
      d.department_name , d.hod_name
37
      from instructors i
      inner join departments d
38
      on i.department_id = d.department_id;
39
40
      -- get all the records from table instructor ,
41
      -- if it is not matched any row in departments
42
43
      -- then put null values
44
```

```
select i.instructor_id , i.instructor_name inst_name , i.email ,
45 •
46
       d.department_id , d.department_name , d.hod_name
47
      from instructors i
      left join departments d
48
      on i.department_id = d.department_id;
49
50
      -- get all the records from table department,
51
      -- if it is not matched any row in instructor
52
      -- then put null values
53
54
55 •
      select i.instructor_id , i.instructor_name inst_name , i.email ,
56
       d.department_id , d.department_name , d.hod_name
57
      from instructors i
58
      right join departments d
59
      on i.department_id = d.department_id;
60
61
      -- get all the records from both table whether i is matched or not
      select i.instructor_id , i.instructor_name inst_name , i.email ,
62 •
       d.department_id , d.department_name , d.hod_name
63
      from instructors i
64
65
      left join departments d
      on i.department_id = d.department_id
66
67
      select i.instructor_id , i.instructor_name inst_name , i.email ,
68
      d.department_id , d.department_name , d.hod_name
69
70
      from instructors i
71
      right join departments d
      on i.department_id = d.department_id;
72
      -- using keyword--
73
74 •
      select i.instructor_id , i.instructor_name as inst_name , i.email ,
75
       d.department_name , d.hod_name
      from instructors i
76
      inner join departments d
77
78
      using (department_id);
79
      select i.instructor_id , i.instructor_name as inst_name , i.email ,
80 •
81
       d.department_name , d.hod_name
      from instructors i
82
      cross join departments d;
83
84
85 •
      select i.instructor_id , i.instructor_name as inst_name , i.email ,
86
       d.department name, d.hod name
87
      from instructors i
      natural join departments d;
88
```