

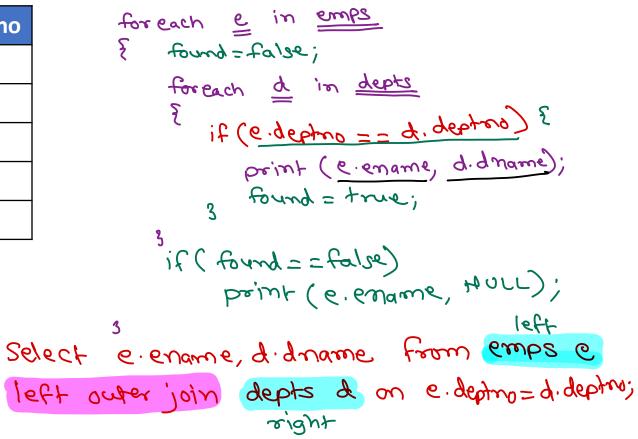
# MySQL RDBMS

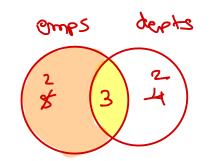
Trainer: Mr. Nilesh Ghule



#### Left Outer Join

deptno	dname		empno	ename	deptno
10 ×	DEV	Ž.	1	Amit	10
20 🛪	QA '		2	Rahul	10
30 ×	OPS		3	Nilesh	20
40 ×	ACC		4	Nitin	50)
			5	Sarang	50





- Left outer join is used to return matching rows from both tables along with additional rows in left table.
- Corresponding to additional rows in left table, right table values are taken as NULL.
- OUTER keyword is optional.



### Right Outer Join

deptno	dname		empno	ename	deptno
10	DEV		1	Amit	10
20	QA		2	Rahul	10
30	OPS	*	_3	Nilesh	20
40	ACC	*	4	Nitin	50
	•		5	Sarang	50
	enes	depts			
	2	2			

- Select evename, didname from emps e right outer join depts don eventure deptholic and eventure and deptholic aright.

  Right outer join is used to return matching rows from both tables along with additional rows in right table.
- Corresponding to additional rows in right table, left table values are taken as NULL.
- OUTER keyword is optional.



#### Full Outer Join

deptno	dname		empno	ename	deptn	
10	DEV		1	Amit	10	
20	QA		2	Rahul	10	
30	OPS V		3	Nilesh	20	
40	ACC V -		4	Nitin 🗸	50 -	
		5	Sarang v	<b>5</b> 0 —		
emps depts  2  3  2						

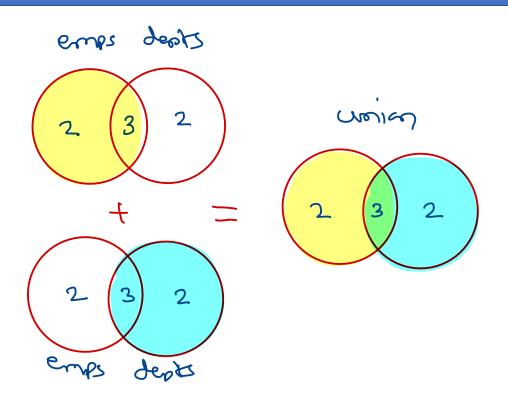
- Full join is used to return matching rows from both tables along with additional rows in both tables.
- Corresponding to additional rows in left or right table, opposite table values are taken as NULL.
- Full outer join is not supported in MySQL, but can be simulated using set operators.



## Set operators

ename	dname		
Amit	DEV		
Rahul	DEV		
Nilesh	QA		
NULL	OPS		
NULL	ACC		

ename	dname	
Amit	DEV	
Rahul	DEV	
Nilesh	QA	
Nitin	NULL	
Sarang	NULL	



- UNION operator is used to combine results of two queries. The common data is taken only once. It can be used to simulate full outer join.
- UNION ALL operator is used to combine results of two queries. Common data is repeated.



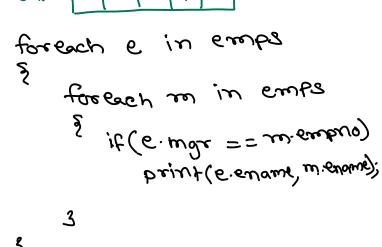
#### Self Join

 When join is done on same table, then it is known as "Self Join". The both columns in condition belong to the same table.

Self join may be an inner join or outer join.

empno	ename	deptno	mgr
1	<u>Amit</u>	10	4
2	Rahul	10	3
3	Nilesh	20	4
4	Nitin	50	(5)
5	Sarang	50	NULL

er	npno	ename	deptno	mgr
1		Amit	10	4
2		Rahul	10	3
3	)	Nilesh	20	4
4	)	Nitin -	50	5
×5		Sarang	50	NULL







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## Thank you!

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