

# MySQL - RDBMS

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### Full 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
4	0	like !	7-21/00	)	

- 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		empno	ename	deptno
1	Amit	10	4		1	Amit	10
2	Rahul _	10	3		2	Rahul	10
3	Nilesh -	20	4)		3	Nilesh	20
4	Nitin -	50	5		4	Nitin	50
5	Sarang	50	NULL	*	5	Sarang	50
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### Joins

## Join with USING keyword

- If two tables are joined with same column name in both the tables, USING keyword can be used.
- SELECT e.\*, d.\* FROM emp e INNER JOIN dept d USING (deptno);
- SELECT e.\*, d.\* FROM emp e RIGHT JOIN dept d USING (deptno);

#### Natural Join

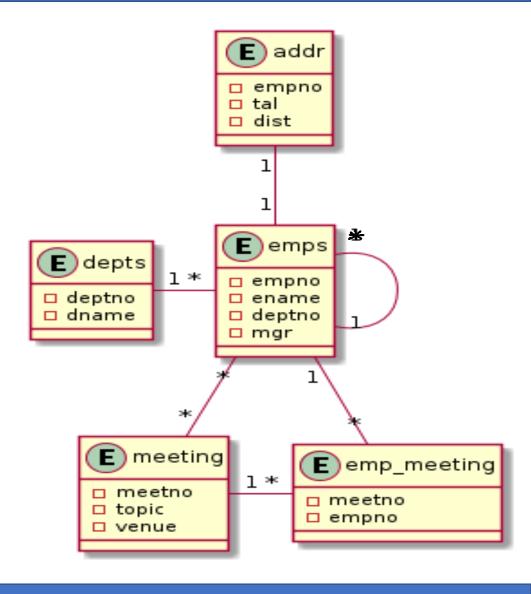
- Two tables are automatically joined on same named columns.
- SELECT e.\*, d.\* FROM emp e NATURAL JOIN dept d;
- SELECT e.\*, d.\* FROM emp e NATURAL RIGHT JOIN dept d;

## Joining tables without JOIN keyword

- Use comma separated list of tables in FROM, along with necessary conditions in WHERE clause.
- SELECT e.\*, d.\* FROM emp e, dept d WHERE e.deptno = d.deptno;

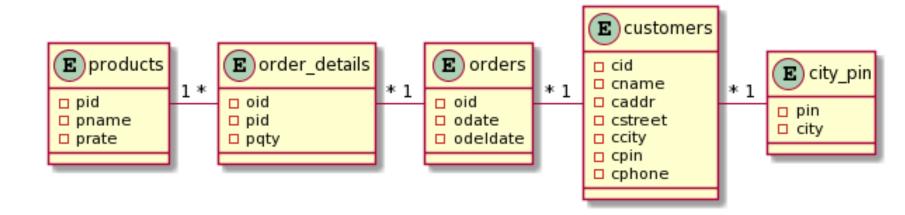


## Multi-Table Joins





## Multi-Table Joins







## Thank you!

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