

Group Function -> max(),min(),avg(),count(),sum()

deptno,max(sal) GROUP BY deptno

-- display deptwise total sal for dept 10 and 20  
--

10 -> 4000	deptwise,jobwise
20 -> 5000	10 -> Analyst -> 1000
	salesman -> 2000
	manager -> 2500
	NULL -> 5500
	20 ->

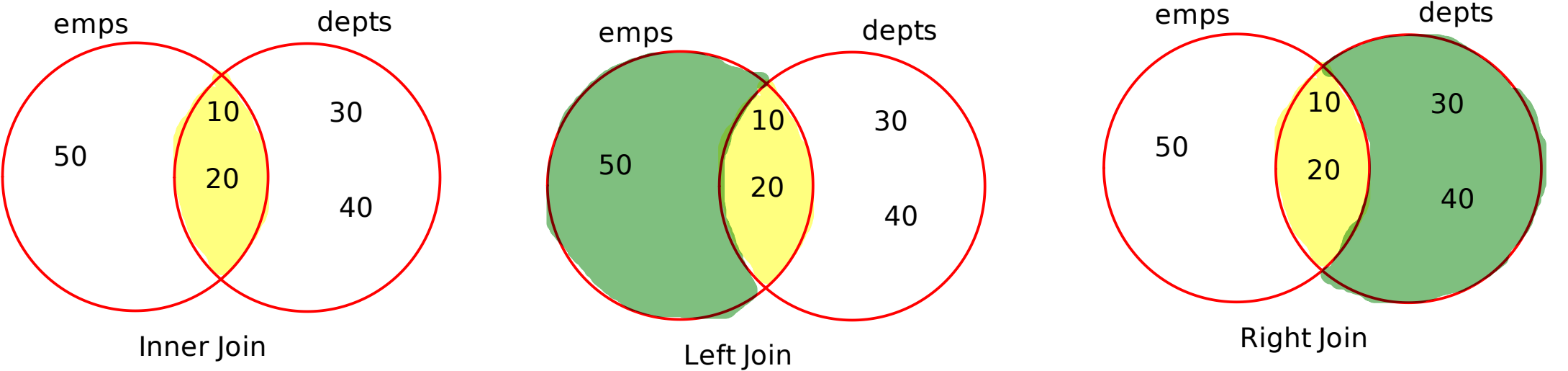
3->  
NULL -> .....

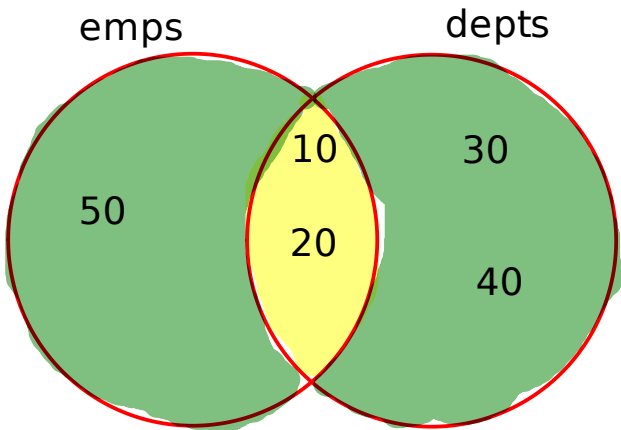
Joins

		INT -> 4 bytes	VARCHAR(10)	
1	Anil	10 Accounting	10 char	30 chars
2	Mukesh	20 President	9 char	9 chars
3	Anant	30 Manager	7 char	28 chars
4		10		
5		30		67 chars
6		10		
7		30		
8		30		32 bytes for INT deptno

dept	
10 Accounting	
20 President	
30 Manager	Noramalization

```
List<Employee> empList; 5 emps
List<Dept> deptList; 4 depts
for(Employee e:empList)
{
    for(Dept d:deptList){
        if(e.deptno==d.deptno) // inner join
            sysout(e.name+"|"+e.deptno+"|"+d.dname);
        // sysout(e.name+"|"+d.deptno+"|"+d.dname);
    }
}
```





Not Supported in Mysql

FULLJOIN = LEFT DATA + INTERSECTION + RIGHT DATA

FULL OUTER JOIN

emps e(employees)

empno	ename	deptno	mgr
1	Amit	10	4
2	Rahul	10	3
3	Nilesh	20	4
4	Nitin	50	5
5	Sarang	50	NULL

emps m(managers)

empno	ename	deptno	mgr
1	Amit	10	4
2	Rahul	10	3
3	Nilesh	20	4
4	Nitin	50	5
5	Sarang	50	NULL

e.ename,m.ename FROM emps e INNER JOIN emps m ON e.mgr=m.empno

clauses

SELECT col1,col2,..... FROM table1  
JOIN table2 ON t1.x=t2.x  
WHERE condition  
GROUP BY col1,col2,....  
HAVING condition  
ORDER BY col1,col2,...  
LIMIT n