



SQL JOINS

by Venkat K.

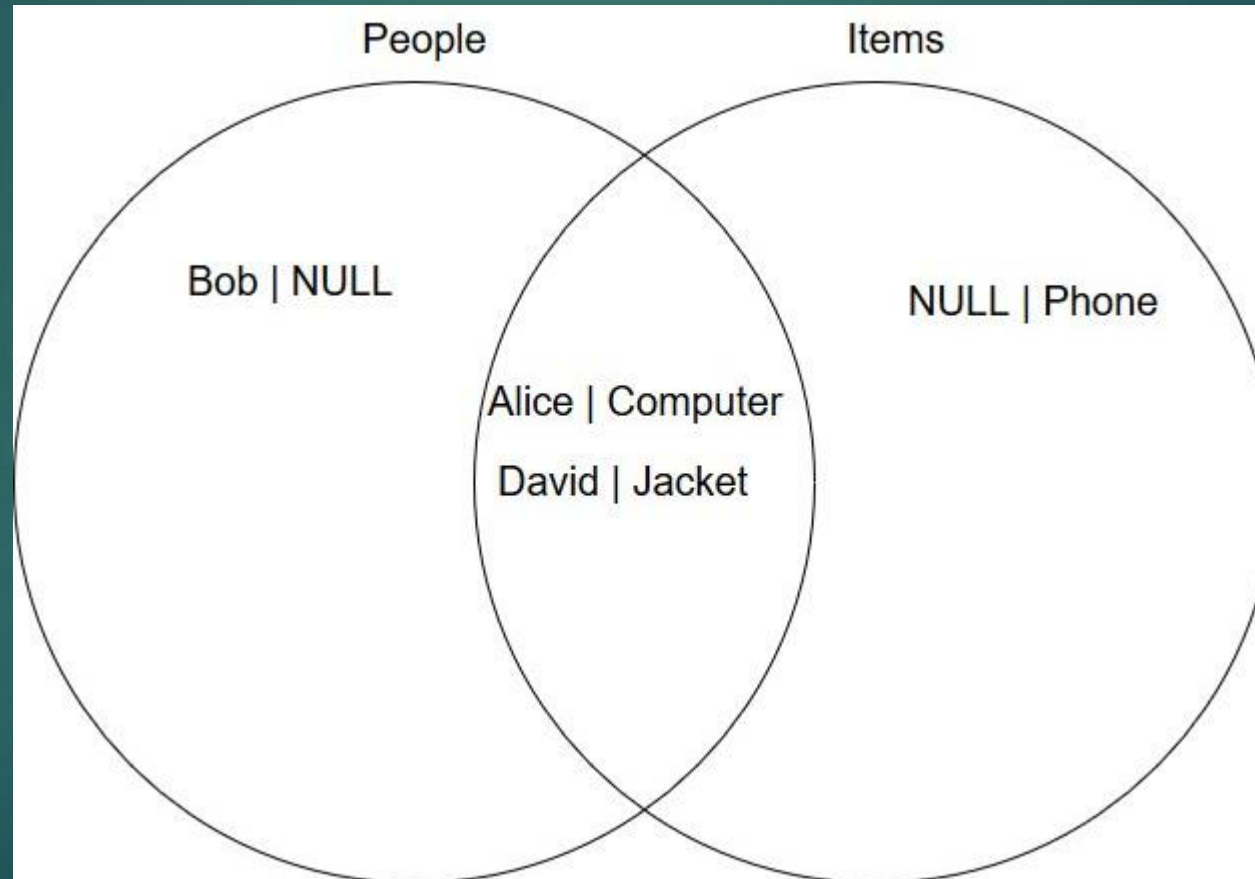
People		Items		
id	<u>name</u>	id	item	Person
1	Bob	10	Jacket	3
2	Alice	11	Computer	2
3	David	13	Phone	4

GOAL: Want to get a table with people and the items they own

```
SELECT P.name, I.item  
FROM People AS P INNER JOIN Items AS I  
ON P.id = I.Person
```

People	
id	<u>name</u>
1	Bob
2	Alice
3	David

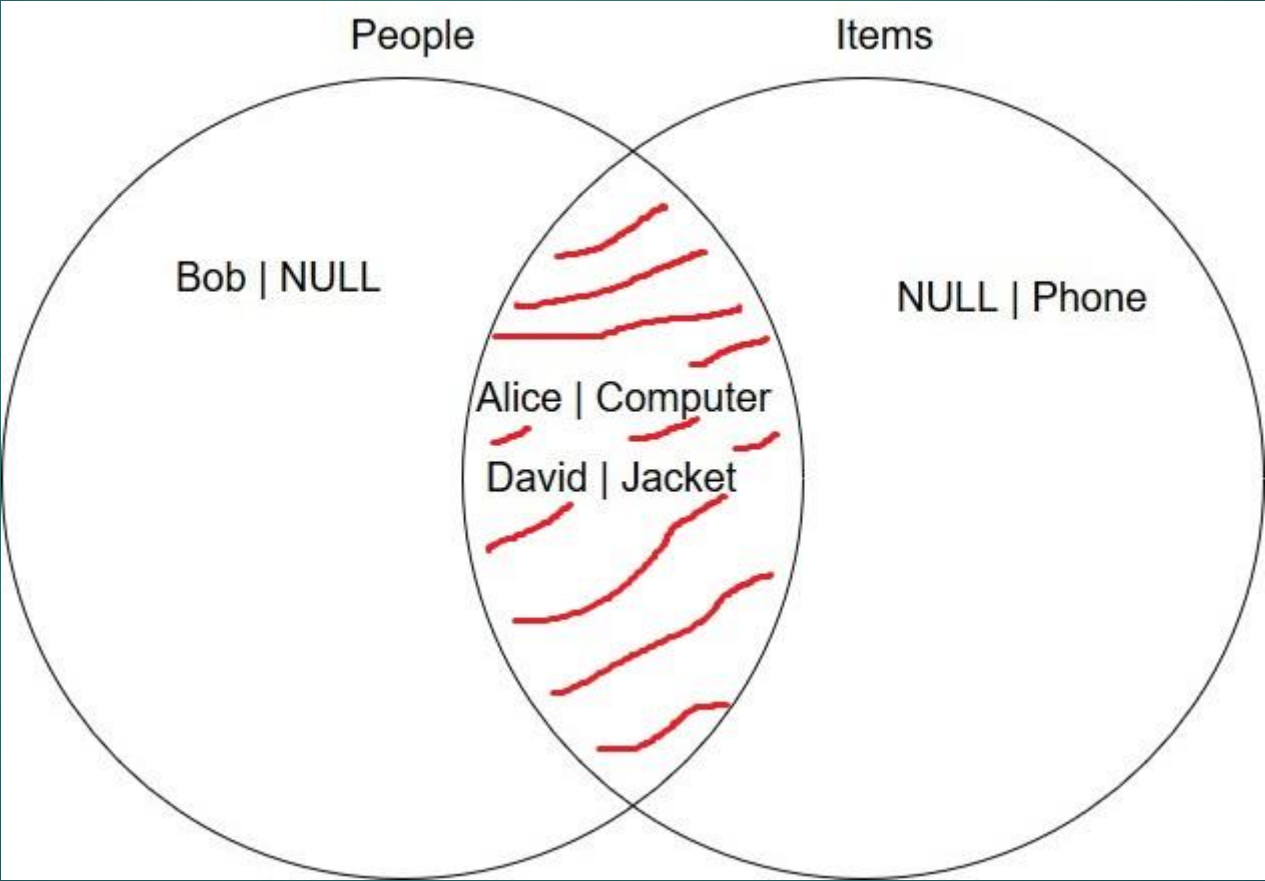
Items		
id	item	Person
10	Jacket	3
11	Computer	2
13	Phone	4



```
SELECT P.name, I.item
FROM People AS P INNER JOIN Items AS I
ON P.id = I.Person
```

People	
id	<u>name</u>
1	Bob
2	Alice
3	David

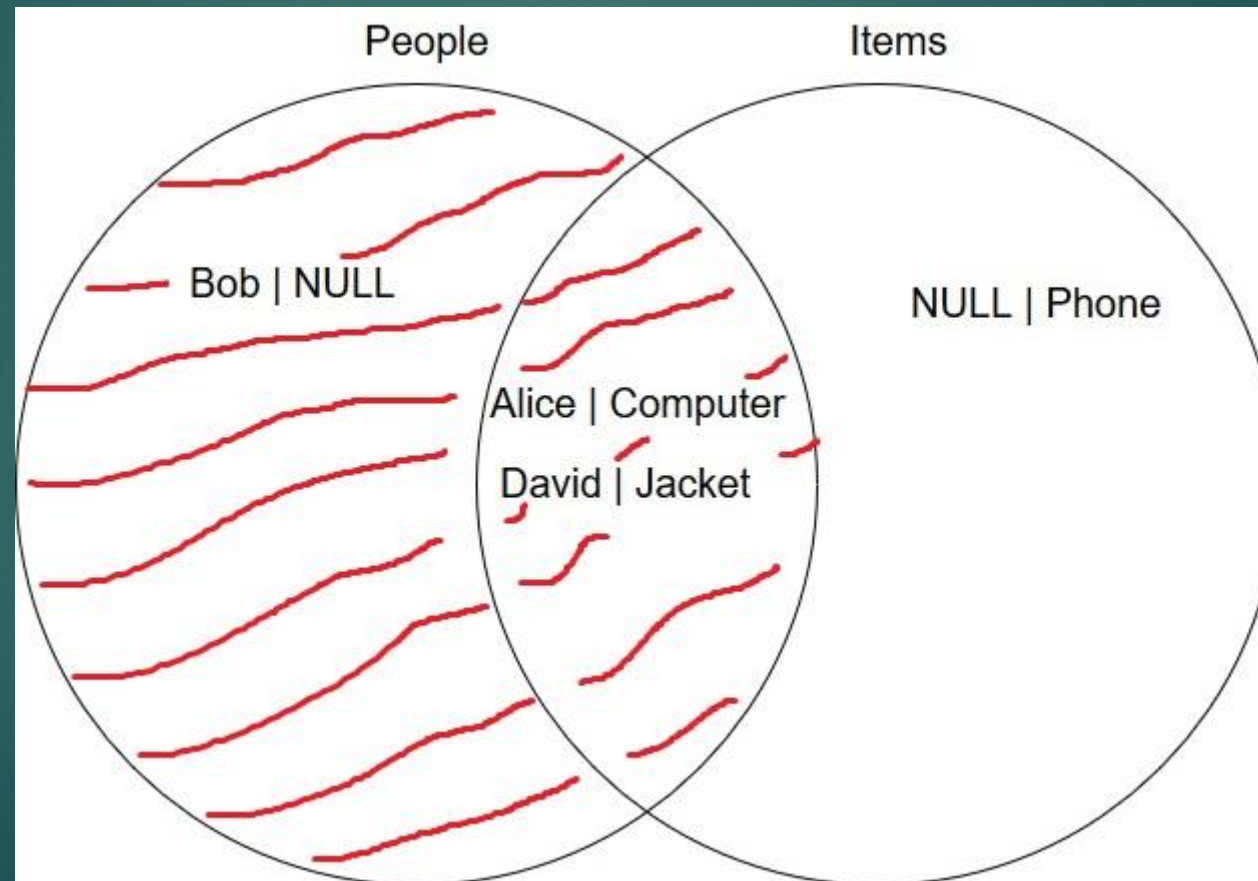
Items		
id	item	Person
10	Jacket	3
11	Computer	2
13	Phone	4



```
SELECT P.name, I.item
FROM People AS P LEFT JOIN Items AS I
ON P.id = I.Person
```

People	
id	<u>name</u>
1	Bob
2	Alice
3	David

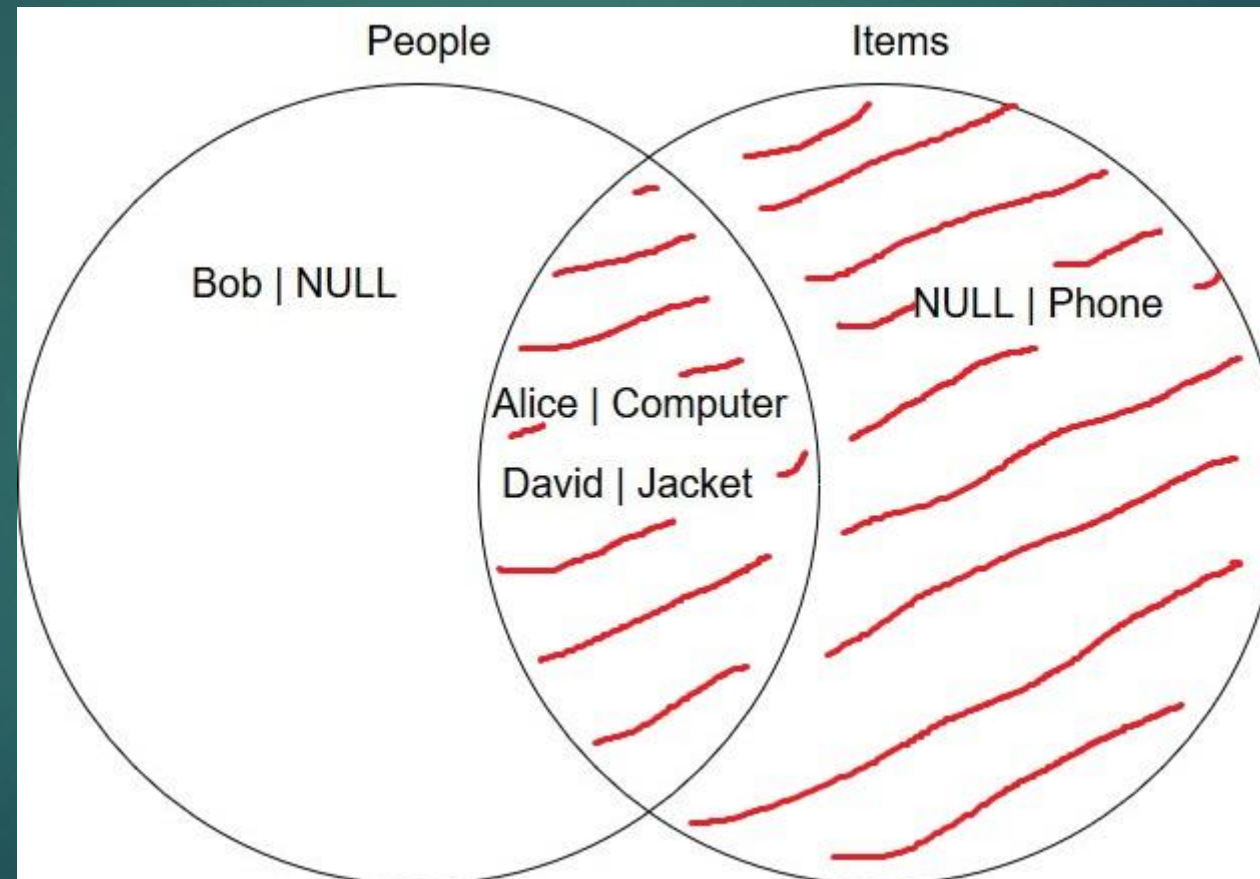
Items		
id	item	Person
10	Jacket	3
11	Computer	2
13	Phone	4



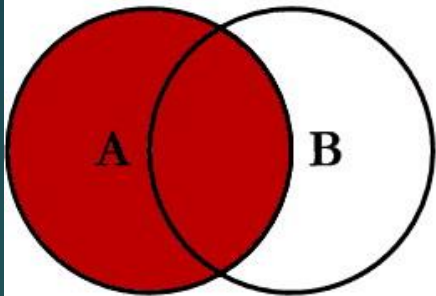
```
SELECT P.name, I.item
FROM People AS P RIGHT JOIN Items AS I
ON P.id = I.Person
```

People	
id	<u>name</u>
1	Bob
2	Alice
3	David

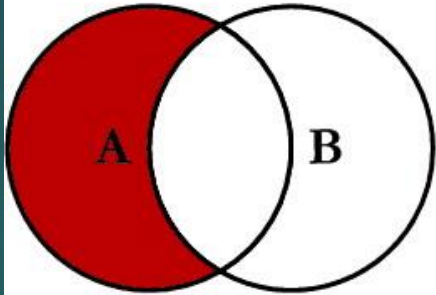
Items		
id	item	Person
10	Jacket	3
11	Computer	2
13	Phone	4



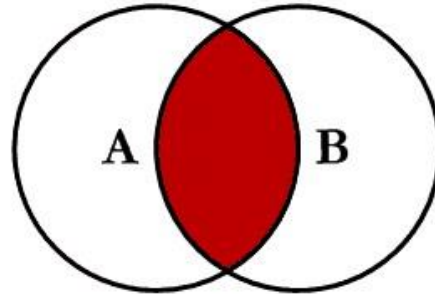
SQL JOINS



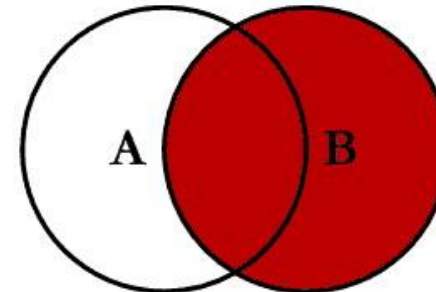
```
SELECT <select_list>  
FROM TableA A  
LEFT JOIN TableB B  
ON A.Key = B.Key
```



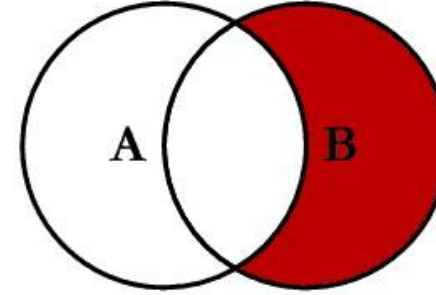
```
SELECT <select_list>  
FROM TableA A  
LEFT JOIN TableB B  
ON A.Key = B.Key  
WHERE B.Key IS NULL
```



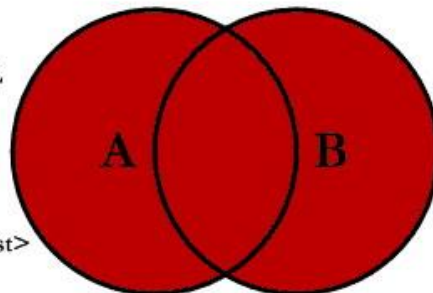
```
SELECT <select_list>  
FROM TableA A  
INNER JOIN TableB B  
ON A.Key = B.Key
```



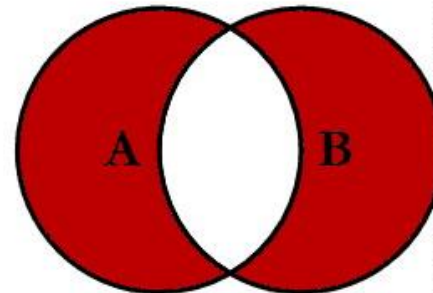
```
SELECT <select_list>  
FROM TableA A  
RIGHT JOIN TableB B  
ON A.Key = B.Key
```



```
SELECT <select_list>  
FROM TableA A  
RIGHT JOIN TableB B  
ON A.Key = B.Key  
WHERE A.Key IS NULL
```



```
SELECT <select_list>  
FROM TableA A  
FULL OUTER JOIN TableB B  
ON A.Key = B.Key
```



```
SELECT <select_list>  
FROM TableA A  
FULL OUTER JOIN TableB B  
ON A.Key = B.Key  
WHERE A.Key IS NULL  
OR B.Key IS NULL
```

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