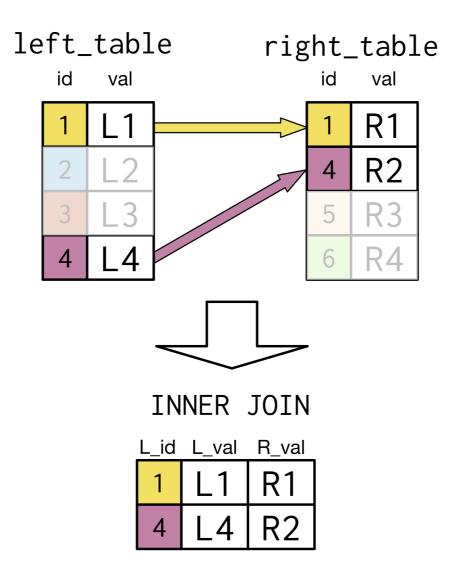


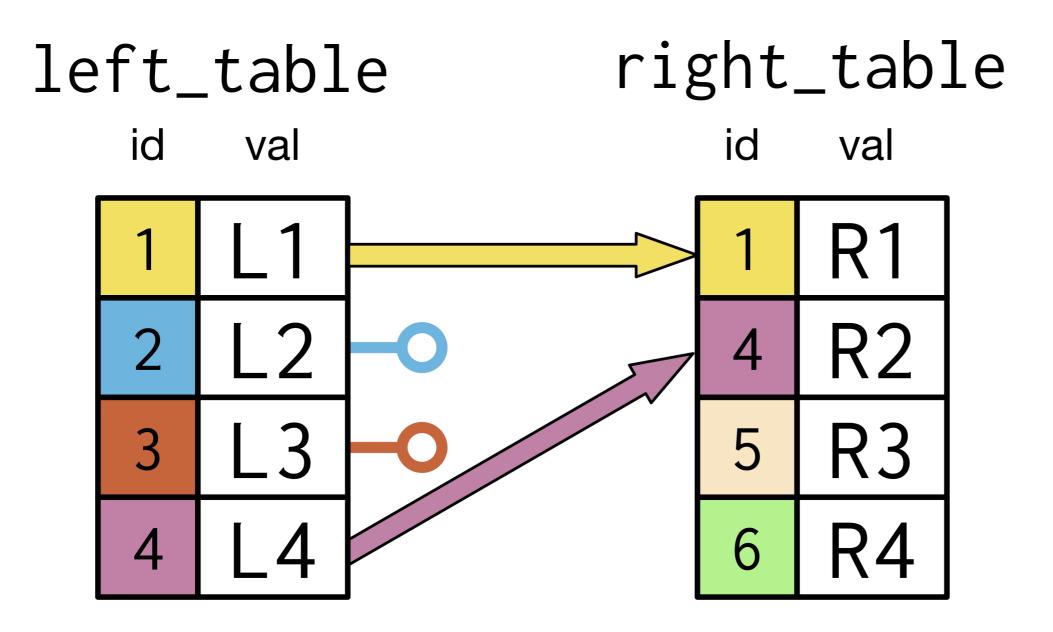


LEFT and RIGHT JOINs

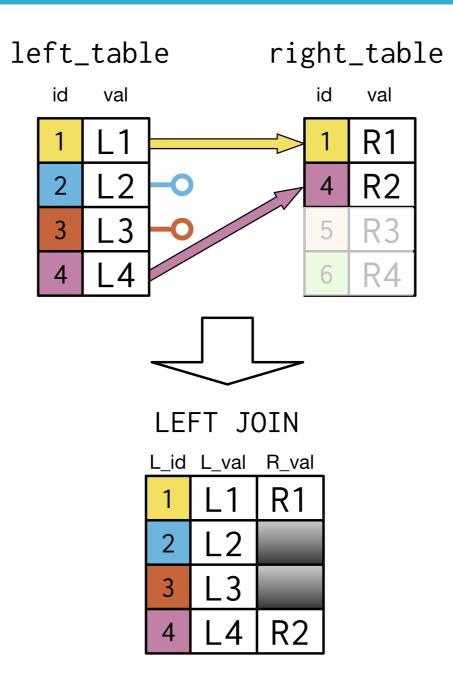
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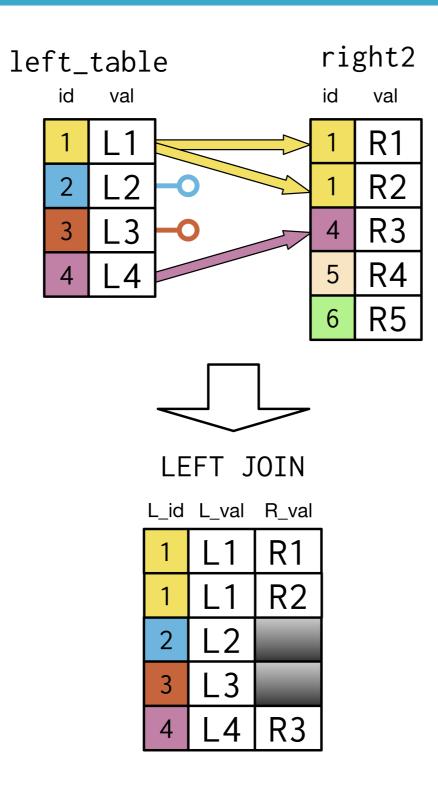














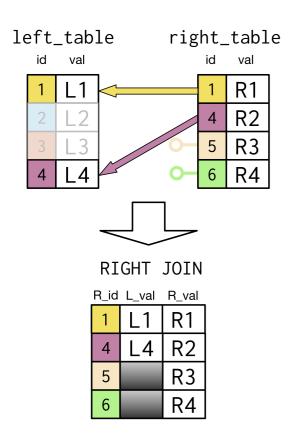
The syntax of a LEFT JOIN

```
SELECT pl.country, prime_minister, president FROM prime_ministers AS pl
LEFT JOIN presidents AS p2
ON pl.country = p2.country;
```

country	prime_minister	president
Egypt Portugal Vietnam Haiti India Australia Norway Brunei Oman Spain	Sherif Ismail Antonio Costa Nguyen Xuan Phuc Jack Guy Lafontant Narendra Modi Malcolm Turnbull Erna Solberg Hassanal Bolkiah Qaboos bin Said al Said Mariano Rajoy	Abdel Fattah el-Sisi Marcelo Rebelo de Sousa Tran Dai Quang Jovenel Moise



RIGHT JOIN







Let's practice!



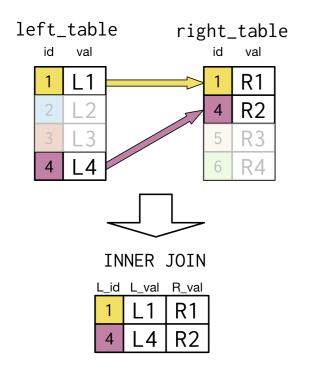


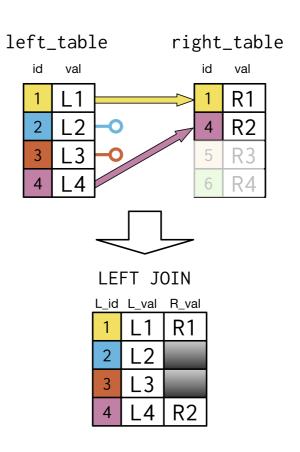
FULL JOINs

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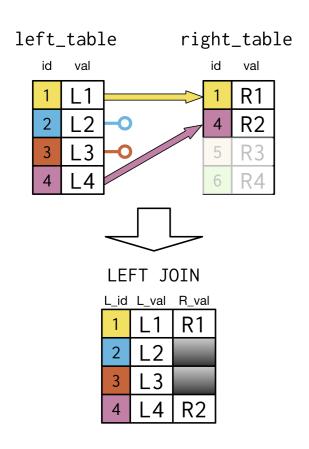
INNER JOIN vs LEFT JOIN

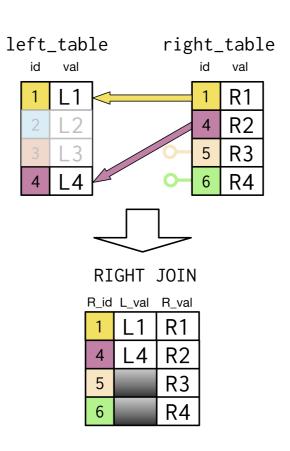


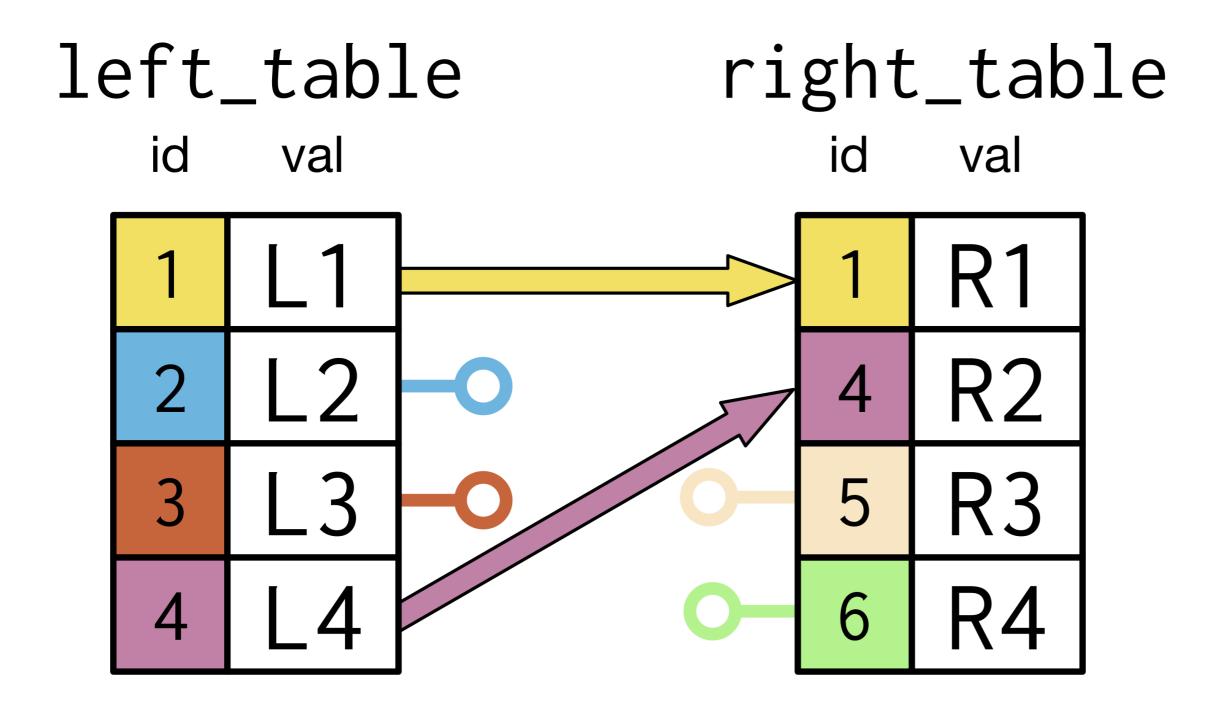




LEFT JOIN vs RIGHT JOIN

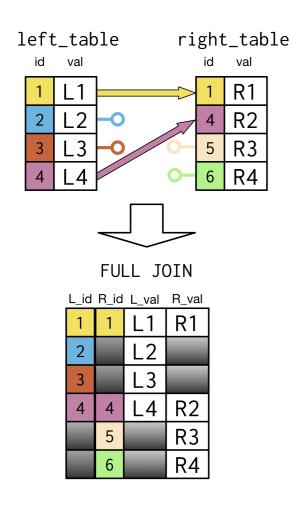








FULL JOIN diagram





SELECT pl.country AS pm_co, p2.country AS pres_co, prime_minister, president



```
SELECT pl.country AS pm_co, p2.country AS pres_co, prime_minister, president
FROM prime_ministers AS pl
```



```
SELECT pl.country AS pm_co, p2.country AS pres_co, prime_minister, president
FROM prime_ministers AS pl
FULL JOIN presidents AS p2
```



```
SELECT p1.country AS pm_co, p2.country AS pres_co,
    prime_minister, president
FROM prime_ministers AS p1
FULL JOIN presidents AS p2
ON p1.country = p2.country;
```



FULL JOIN example results using leaders

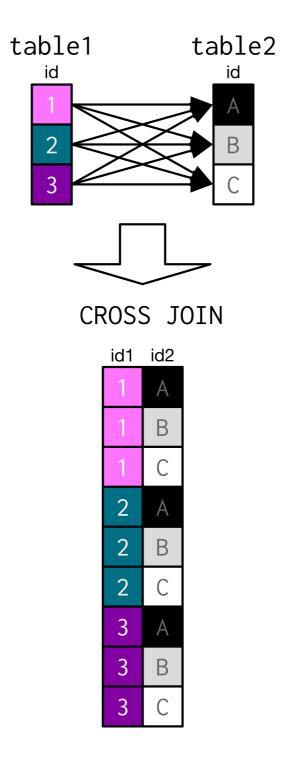
pm_co		+	++
	pres_co	prime_minister	president
Egypt Portugal Vietnam Haiti India Australia Norway Brunei Oman Spain	Egypt Portugal Vietnam Haiti Uruguay Chile Liberia	Sherif Ismail Antonio Costa Nguyen Xuan Phuc Jack Guy Lafontant Narendra Modi Malcolm Turnbull Erna Solberg Hassanal Bolkiah Qaboos bin Said al Said Mariano Rajoy	Abdel Fattah el-Sisi





CROSSing the Rubicon

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Pairing prime ministers with presidents

```
SELECT prime_minister, president
FROM prime_ministers AS p1
CROSS JOIN presidents AS p2
WHERE p1.continent IN ('North America', 'Oceania');
```

```
Jack Guy Lafontant | Abdel Fattah el-Sisi
Malcolm Turnbull | Abdel Fattah el-Sisi
Jack Guy Lafontant | Marcelo Rebelo de Sousa
Malcolm Turnbull
                l Marcelo Rebelo de Sousa
Jack Guy Lafontant | Jovenel Moise
Malcolm Turnbull
                | Jovenel Moise
Jack Guy Lafontant | Jose Mujica
Malcolm Turnbull
               | Jose Mujica
Jack Guy Lafontant | Ellen Johnson Sirleaf
Malcolm Turnbull | Ellen Johnson Sirleaf
Jack Guy Lafontant | Michelle Bachelet
Malcolm Turnbull
                 | Michelle Bachelet
Jack Guy Lafontant | Tran Dai Quang
Malcolm Turnbull
                   Tran Dai Quanq
```





Let's practice!