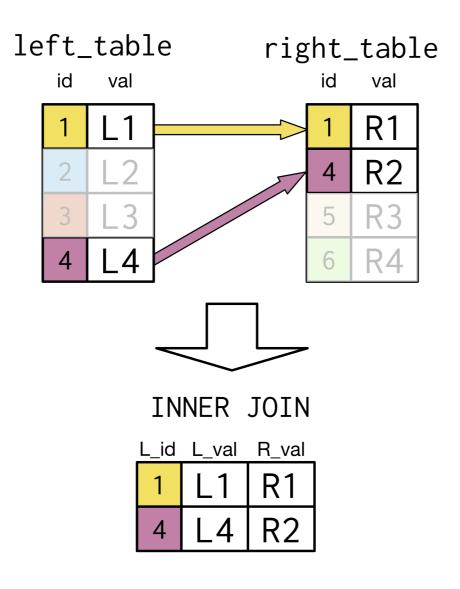




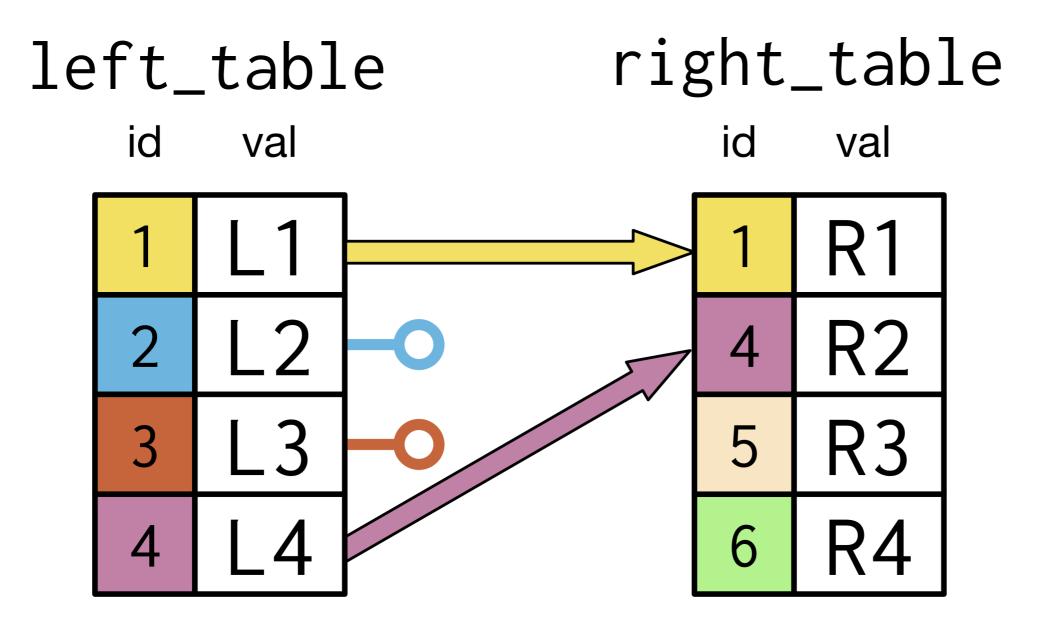
## **LEFT and RIGHT JOINs**

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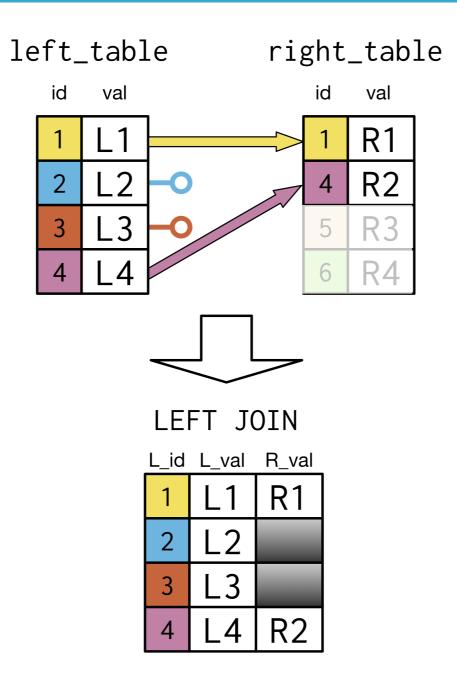




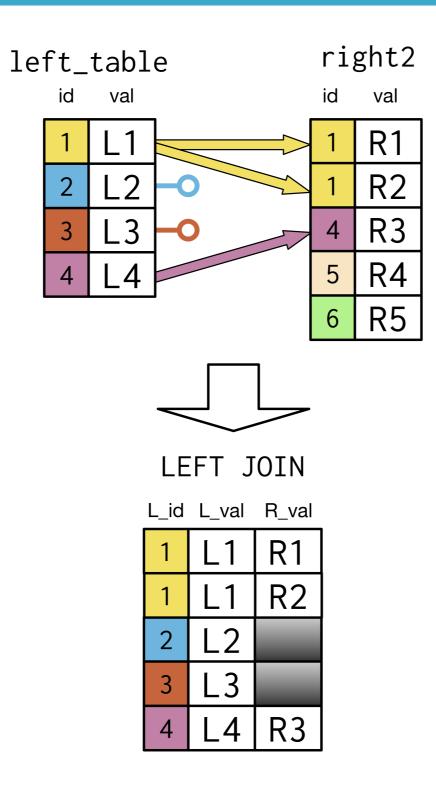














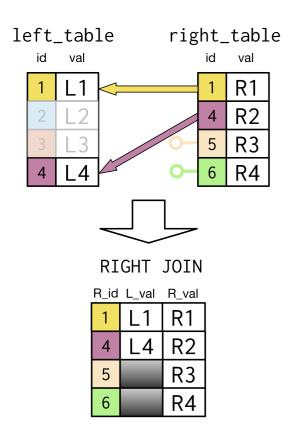
## The syntax of a LEFT JOIN

```
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!



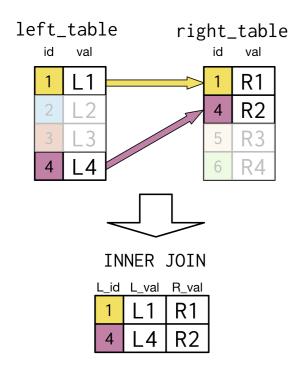


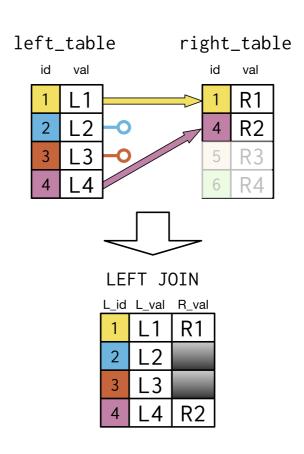
## **FULL JOINs**

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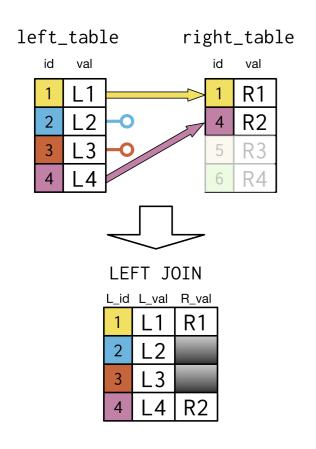
### INNER JOIN vs LEFT JOIN

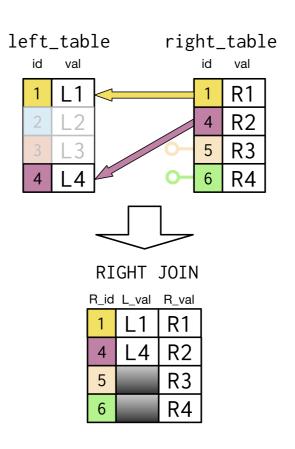


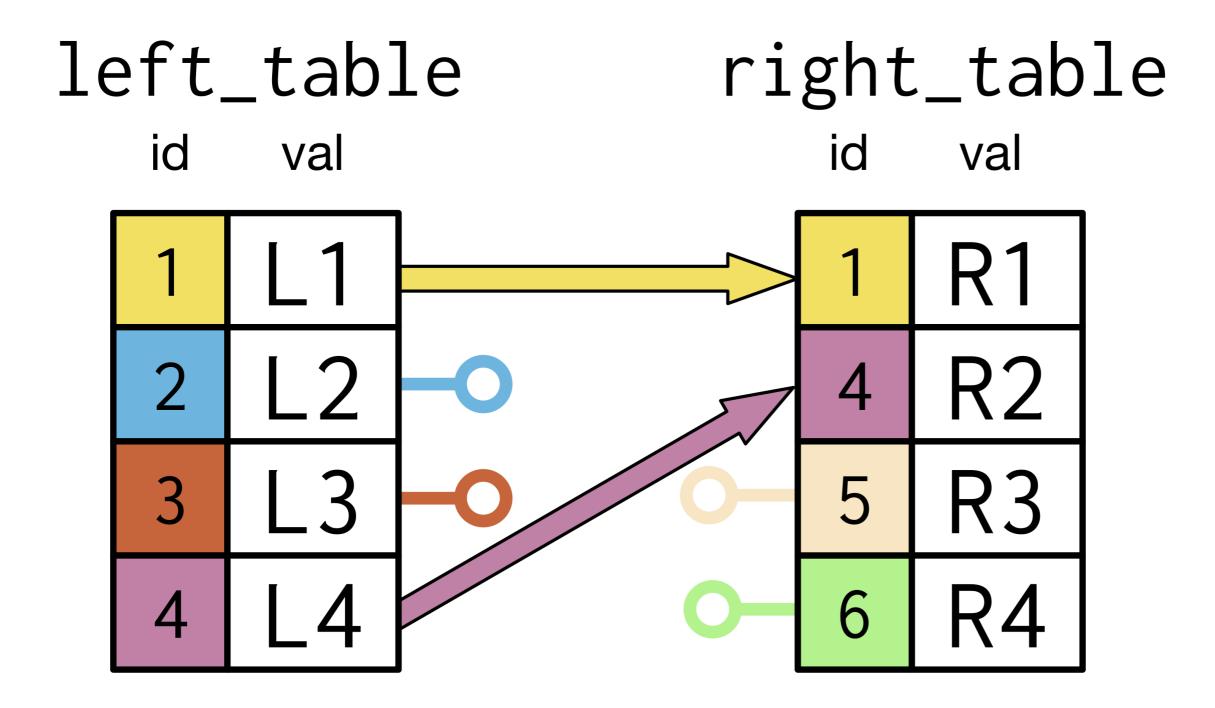




#### LEFT JOIN vs RIGHT JOIN

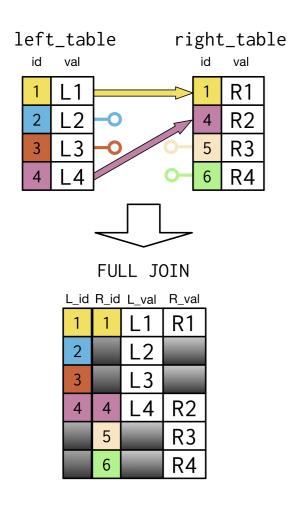








### FULL JOIN diagram





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
```





## FULL JOIN example results using leaders

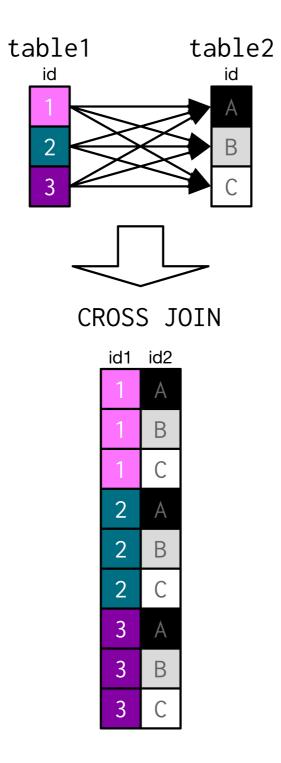
pm_co	pres_co	prime_minister	president
Portugal   Por   Vietnam   Vie	Egypt   Portugal   Vietnam   Haiti     	Sherif Ismail   Antonio Costa   Nguyen Xuan Phuc   Jack Guy Lafontant   Narendra Modi   Malcolm Turnbull   Erna Solberg   Hassanal Bolkiah   Qaboos bin Said al Said   Mariano Rajoy	Abdel Fattah el-Sisi   Marcelo Rebelo de Sousa   Tran Dai Quang   Jovenel Moise   
	Uruguay   Chile   Liberia	 	Jose Mujica   Michelle Bachelet   Ellen Johnson Sirleaf





## **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!