

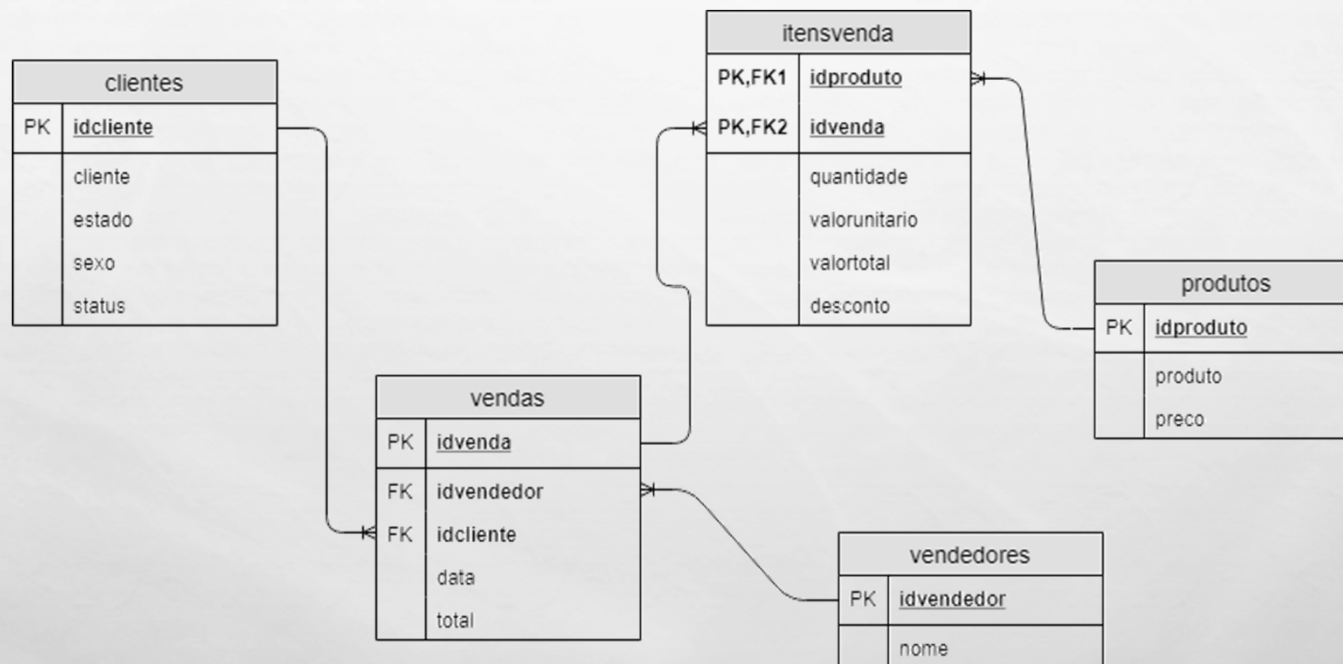
# FORMAÇÃO CIENTISTA DE DADOS

**JOINS**

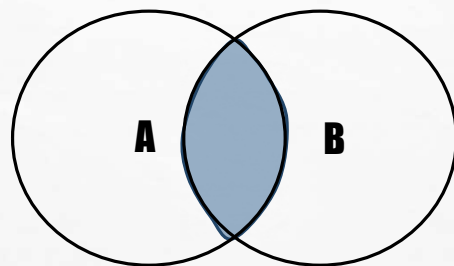


**PROF.  
FERNANDO  
AMARAL**  
[www.datascientist.com.br](http://www.datascientist.com.br)

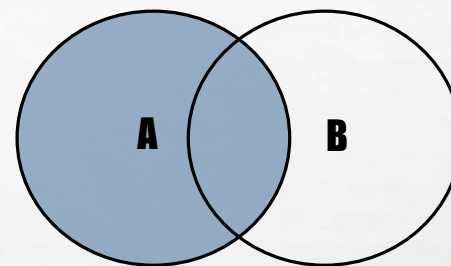
# JOINS: UNIR DADOS ATRAVÉS DE PK E FK



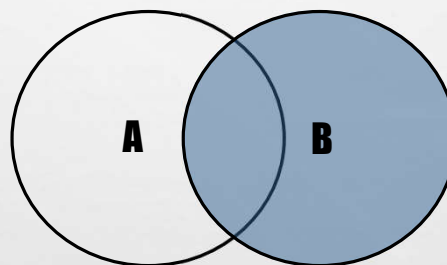
# TIPOS



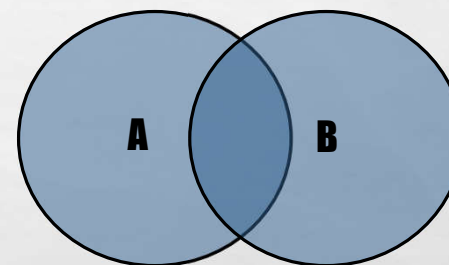
**INNER JOIN**



**LEFT JOIN**



**RIGHT JOIN**



**FULL JOIN**

# INNER JOIN

**A**

A.ID	B.FK
1	A
2	A
3	C
4	F

**B**

B.ID	
A	
B	★
C	
D	★

A.ID	B.FK	B.ID
1	A	A
2	A	A
3	C	C

# LEFT JOIN

**A**

A.ID	B.FK
1	A
2	A
3	C
4	F

**B**

B.ID	
A	
B	★
C	
D	★

A.ID	B.FK	B.ID
1	A	A
2	A	A
3	C	C
4	F	

# RIGHT JOIN

**A**

A.ID	B.FK
1	A
2	A
3	C
4	F

**B**

B.ID	
A	
B	
C	
D	★

A.ID	B.FK	B.ID
1	A	A
2	A	A
		B
3	C	C
		D

# FULL JOIN

**A**

A.ID	B.FK
1	A
2	A
3	C
4	F

**B**

B.ID	
A	
B	
C	
D	

A.ID	B.FK	B.ID
1	A	A
2	A	A
3	C	C
4	F	
		B
		D



nome character varying (50)	total numeric (10,2)
Armando Lago	8053.60
Iberê Lacerda	150.40
Jéssica Castelhão	6087.00
Hélio Liberato	13828.60
Napoleão Méndez	26096.66
Simão Rivero	18402.00
Simão Rivero	7524.20
Iberê Lacerda	12036.60
Jéssica Castelhão	2804.75
Capitolino Bahía	8852.00
Armando Lago	16545.25
Jéssica Castelhão	11411.88
Godo Capiperibe	15829.70

## VENDAS COM NOMES DOS VENDEDORES

**SELECT NOME, TOTAL FROM VENDAS,  
VENDEDORES**

**WHERE VENDAS.IDVENDEDOR =  
VENDEDORES.IDVENDEDOR**



count
bigint
400

# INNER JOIN

```
SELECT COUNT(*) FROM VENDAS  
INNER JOIN VENDEDORES  
ON(VENDAS.IDVENDEDOR =  
VENDEDORES.IDVENDEDOR )
```

count
bigint
400

# LEFT JOIN

```
SELECT COUNT(*) FROM VENDAS  
LEFT JOIN VENDEDORES ON  
( VENDAS.IDVENDEDOR =  
VENDEDORES.IDVENDEDOR )
```

count
bigint

401
-----

# RIGHT JOIN

**--INSERE NOVO VENDEDORES**

**INSERT INTO VENDEDORES(NOME) VALUES ('FERNANDO AMARAL');**

**SELECT COUNT(\*) FROM VENDAS RIGHT JOIN  
VENDEDORES ON( VENDAS.IDVENDEDOR =  
VENDEDORES.IDVENDEDOR );**

cliente character varying (50)	total numeric (10,2)
Adelina Buenaventura	8053.60
Gertrudes Hidalgo	150.40
Antão Corte-Real	6087.00
Adelina Buenaventura	13828.60
Diodete Carijó	26096.66
Cássio Bettencourt	18402.00
Gisela Bahia	7524.20
Adelino Gago	12036.60
Clóvis Pamplona	2804.75
Greice Lameirinhas	8852.00
Adélio Lisboa	16545.25
Antero Milheiro	11411.88
Elsa Alencar	15829.70

# "APELIDOS"

**SELECT CLIENTE, TOTAL FROM VENDAS V  
INNER JOIN CLIENTES C ON (V.IDCLIENTE =  
C.IDCLIENTE)**