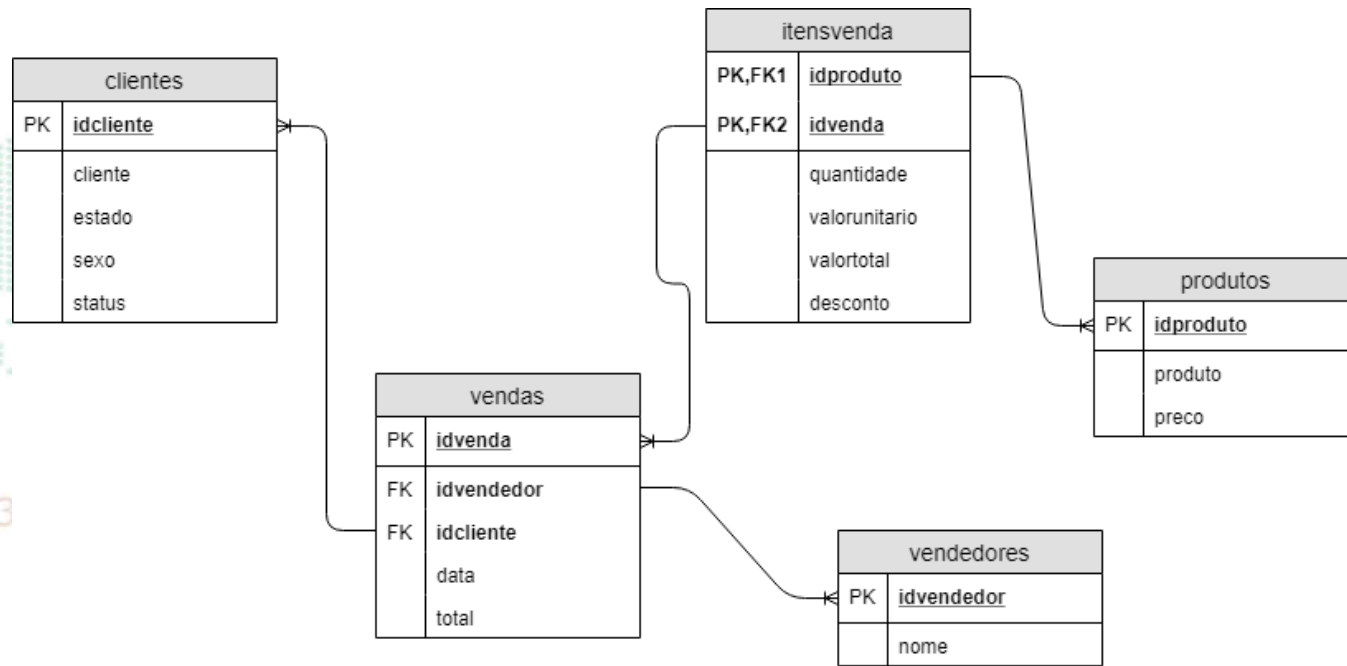
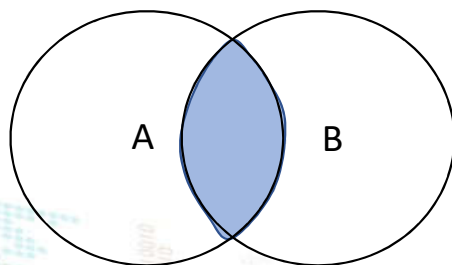


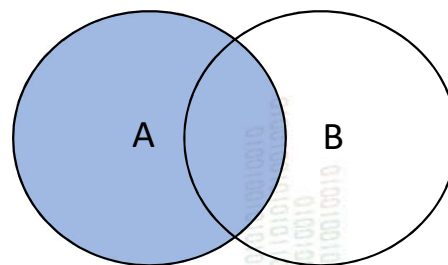
Joins: Unir Dados Através de PK e FK



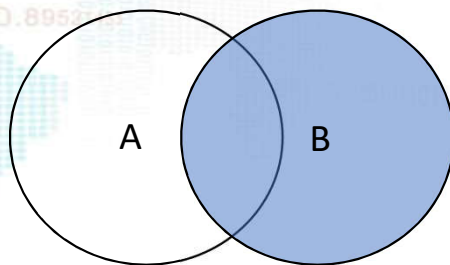
Tipos



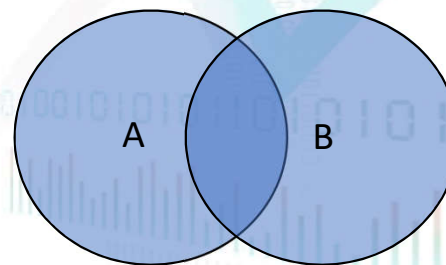
INNER JOIN



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
1	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

INNER JOIN

```
1 select * from relational.vendas ven
2 INNER join relational.clientes cli on (ven.idcliente = cli.idcliente)
```

Data Output	Explain	Messages	Notifications							
	idvenda integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)	idcliente integer	cliente character varying (50)	estado character varying (2)	sexo character (1)	status character varying (50)
1	1	1	1	2016-...	8053.60	1	Adelina Buenaventura	RJ	M	Gold
2	2	6	185	2016-...	150.40	185	Gertrudes Hidalgo	PA	F	Silver
3	3	7	31	2016-...	6087.00	31	Antão Corte-Real	ES	M	Silver
4	4	5	1	2016-...	13828.60	1	Adelina Buenaventura	RJ	M	Gold
5	5	8	120	2016-...	26096.66	120	Diodete Carijó	PB	F	Silver
6	6	9	74	2016-...	18402.00	74	Cássio Bettencourt	BA	M	Silver
7	7	9	191	2016-...	7524.20	191	Gisela Bahia	SP	F	Silver
8	8	6	2	2016-...	12036.60	2	Adelino Gago	RJ	M	Gold
9	9	7	91	2016-...	2804.75	91	Clóvis Pamplona	PB	M	Silver
10	10	2	202	2016-...	8852.00	202	Greice Lameirinhas	PI	F	Silver
11	11	1	3	2016-...	16545.25	3	Adélio Lisboa	SE	M	Platinum

400 registros

RIGHT JOIN

```
1 select * from relational.vendas ven
2 RIGHT join relational.clientes cli on (ven.idcliente = cli.idcliente)
```

Data Output Explain Messages Notifications

	idvenda integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)	idcliente integer	cliente character varying (50)	estado character varying (2)	sexo character (1)	status character varying (50)
390	390	7	238	2016-...	103.28	238	Iraci Alcoforado	MS	F	Silver
391	391	10	33	2016-...	5932.00	33	Antônia Canhão	SC	F	Silver
392	392	9	156	2016-...	8901.60	156	Faustino Maranhão	PI	M	Silver
393	393	4	168	2016-...	16618.98	168	Flamínia Miera	MT	F	Silver
394	394	2	49	2016-...	8435.90	49	Belmiro Marroquim	SC	M	Silver
395	395	10	42	2016-...	14058.80	42	Artur Macedo	SE	M	Silver
396	396	2	103	2016-...	10415.38	103	David Brás	RJ	M	Silver
397	397	2	65	2016-...	16995.20	65	Capitolina Ruela	PI	F	Silver
398	398	1	238	2016-...	5183.30	238	Iraci Alcoforado	MS	F	Silver
399	399	4	62	2016-...	14592.63	62	Calisto Britto	RN	M	Silver
400	400	6	224	2016-...	18402.00	224	Horácio Pires	MG	M	Silver
401	[null]	[null]	[null]	[null]	[null]	251	Pedro da Silva	RS	M	Silver
402	[null]	[null]	[null]	[null]	[null]	209	Guilhermina Hurtado	PA	F	Silver
403	[null]	[null]	[null]	[null]	[null]	151	Eusébio Salomão	AC	M	Silver

515 registros

LEFT JOIN

```
1 select * from relational.vendas ven
2 LEFT join relational.clientes cli on (ven.idcliente = cli.idcliente)
```

Data Output		Explain	Messages	Notifications						
	idvenda integer	idvendedor integer	idcliente integer	data date	total numeric (10,2)	idcliente integer	cliente character varying (50)	estado character varying (2)	sexo character (1)	status character varying (50)
1	1	1	1	2016-...	8053.60	1	Adelina Buenaventura	RJ	M	Gold
2	2	6	185	2016-...	150.40	185	Gertrudes Hidalgo	PA	F	Silver
3	3	7	31	2016-...	6087.00	31	Antão Corte-Real	ES	M	Silver
4	4	5	1	2016-...	13828.60	1	Adelina Buenaventura	RJ	M	Gold
5	5	8	120	2016-...	26096.66	120	Diodete Carijó	PB	F	Silver
6	6	9	74	2016-...	18402.00	74	Cássio Bettencourt	BA	M	Silver
7	7	9	191	2016-...	7524.20	191	Gisela Bahia	SP	F	Silver
8	8	6	2	2016-...	12036.60	2	Adelino Gago	RJ	M	Gold
9	9	7	91	2016-...	2804.75	91	Clóvis Pamplona	PB	M	Silver
10	10	2	202	2016-...	8852.00	202	Greice Lameirinhas	PI	F	Silver
11	11	1	3	2016-...	16545.25	3	Adélio Lisboa	SE	M	Platinum
12	12	7	32	2016-...	11411.88	32	Antero Milheiro	AP	M	Silver
13	13	4	136	2016-...	15829.70	136	Elsa Alencar	RJ	F	Silver
14	14	3	249	2016-...	6154.36	249	Joaquim Mieiro	TO	M	Silver
15	15	4	5	2016-...	3255.08	5	Adolfo Patrício	PE	M	Gold

400 registros

Desnormalização

```
1 select
2     cliente, status, produto, valortotal
3 from dimensional.dimensaocliente
4 inner join dimensional.fatovendas on (dimensional.fatovendas.chavecliente = dimensional.dimensaocliente.chavecliente)
5 inner join dimensional.dimensaoproduto on (dimensional.dimensaoproduto.chaveproduto = dimensional.fatovendas.chaveproduto)
6 inner join dimensional.dimensaotempo on (dimensional.dimensaotempo.chavetempo = dimensional.fatovendas.chavetempo)
7 inner join dimensional.dimensaovendedor on (dimensional.dimensaovendedor.chavevendedor = dimensional.fatovendas.chavevendedor)
8
9
```

Data Output Explain Messages Notifications

	cliente character varying (50)	status character varying (50)	produto character varying (100)	valortotal numeric (10,2)
1	Gertrudes Hidalgo	Silver	Luva De Ciclismo - Gometw...	150.40
2	Adelina Buenaventura	Silver	Bicicleta Altoools Stroll Aro 2...	7820.85
3	Adelina Buenaventura	Silver	Bermuda Predactor 3Xu Pro	97.75
4	Adelina Buenaventura	Silver	Camiseta Predactor 3Xu M...	135.00
5	Antão Corte-Real	Silver	Bicicleta Gometws Endorph...	5932.00
6	Antão Corte-Real	Silver	Capacete Gometws Endorp...	155.00
7	Adelina Buenaventura	Silver	Bicicleta Altoools Stroll Aro 2...	7820.85
8	Adelina Buenaventura	Silver	Bicicleta Gometws Endorph...	5910.00
9	Adelina Buenaventura	Silver	Bermuda Predactor 3Xu Pro	97.75
10	Diodete Carijó	Silver	Bicicleta Aro 29 Mountain B...	8852.00
11	Diodete Carijó	Silver	Bicicleta Gts Advanced 1.0 ...	6510.16
12	Diodete Carijó	Silver	Bicicleta Trinc Câmbios Shi...	7658.00
13	Diodete Carijó	Silver	Bicicleta Gometws Endorph...	2955.00
14	Diodete Carijó	Silver	Camiseta Predactor 3Xu M...	121.50
15	Cássio Bettencourt	Silver	Bicicleta Altoools Stroll Aro 2...	18402.00

