



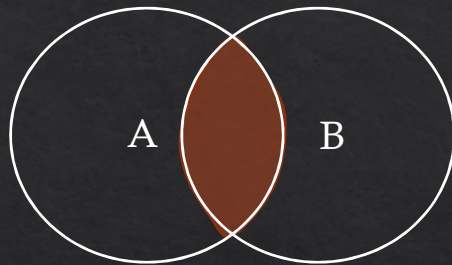
Big Data com Hive e Impala

Mais HiveQL

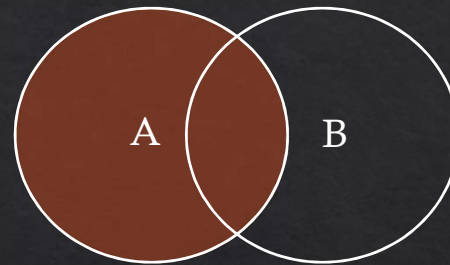
Joins: Unir Dados Através de PK e FK



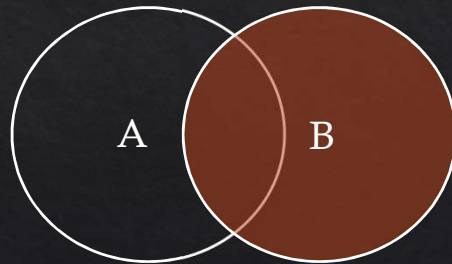
Tipos



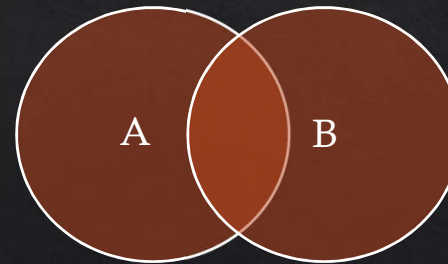
INNER JOIN



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

```
0: jdbc:hive2://> select loc.datalocacao,des.nome from locacao loc  
. . . . . > join despachantes des on (loc.iddespachante = des.iddespachante);
```

loc.datalocacao	des.nome
2019-02-20	Graça Ornellas
2019-06-30	Graça Ornellas
2019-03-09	Graça Ornellas
2019-04-19	Emídio Dornelles
2019-02-24	Viviana Sequeira
2019-05-15	Graça Ornellas
2019-05-01	Deolinda Vilela
2019-03-29	Graça Ornellas
2019-05-10	Noêmia Orriça
2019-03-17	Deolinda Vilela
2019-05-12	Graça Ornellas



LOCACAO = 100 REGISTROS
INNER JOIN COM DESPACHANTS = 100 REGISTROS



INSERT

- ◆ Inserir novo registro em Despachantes (não terá vendas)

```
insert into despachantes values  
(11, 'José Vilela', 'Ativo', 'Porto  
Alegre');
```

RIGHT JOIN

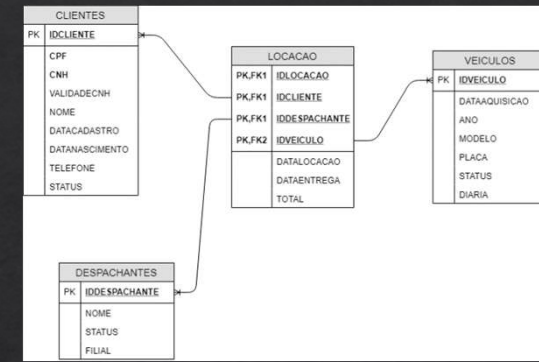
```
0: jdbc:hive2://> select loc.datalocacao,des.nome from locacao loc
. . . . . > right join despachantes des on (loc.iddespachante =
des.iddespachante);
```

loc.datalocacao	des.nome
NULL	José Vilela
2019-04-09	Carmina Pestana
2019-03-26	Carmina Pestana
2019-04-15	Carmina Pestana
2019-06-01	Carmina Pestana
2019-06-15	Carmina Pestana
2019-03-04	Carmina Pestana



101 registros

Desnormalização



```

0: jdbc:hive2://> select cli.nome, des.nome, veic.modelo, loc.datalocacao, loc.total from locacao loc
. . . . . > join despachantes des on (loc.iddespachante = des.iddespachante)
. . . . . > join clientes cli on (loc.idcliente = cli.idcliente)
. . . . . > join veiculos veic on (loc.idveiculo = veic.idveiculo);
    
```

cli.nome	des.nome	veic.modelo	loc.datalocacao	loc.total
Carmina Veríssimo	Graça Ornellas	Infiniti Q50S 3.7 Sedan	2019-02-20	1996.0
Clóvis Carrasco	Graça Ornellas	BMW 750i xDrive	2019-06-30	1843.0
Rebeca Torcuato	Graça Ornellas	BMW 750i xDrive	2019-03-09	2016.0
Xisto Mendoça	Emídio Dornelles	Volvo XC90 T8 Hybrid	2019-04-19	1857.0
Hipólito Granja	Viviana Sequeira	BMW 750i xDrive	2019-02-24	2049.0
Márcio Taveira	Graça Ornellas	BMW 750i xDrive	2019-05-15	1986.0