



SQL Server 2019



No sample DB



run



By using db<>fiddle, you agree to license everything you submit by [Creative Commons CC0](https://creativecommons.org/licenses/by/4.0/). 2763286 fiddles created (28386 in the last week).

```
1 123456CREATE TABLE Cars (ID int, VIN varchar(50), Manufacturer varchar(50), Model varchar(50), Year INT, Color varchar(50));
```

✓

```
1 1234567INSERT INTO Cars (ID, VIN, Manufacturer, Model, Year, Color)VALUES ('0','3K096I98581DHSNUP','Volkswagen','Tiguan','2019','Blue'),('1','ZM8G7E
```

6 rows affected

```
1 12345678910CREATE TABLE Customers (ID int, "Customer ID" int, Name varchar(50), Phone varchar(50), Email varchar(50), Address varchar(50), City varc
```

✓

```
1 123INSERT INTO Customers VALUES (0, 10001, 'Pablo Picasso', '+34 636 17 63 82', '-', 'Paseo de la Chopera, 14','Madrid','Madrid','Spain','28045'),(1
```

3 rows affected

```
1 1234CREATE TABLE SalesPersons (ID int not null, "Staff ID" int not null, Name varchar (50) not null,Store varchar(50) not null);
```

✓

```
1 12345678910INSERT INTO Salespersons (ID, "Staff ID", Name, Store)VALUES ('0','00001','Petev Cruiser','Madrid'),('0','1','Petev Cruiser','Madrid'),(
```

9 rows affected

```
1 123456CREATE TABLE Invoices (ID int, "Invoice Number" varchar (50), "Date" date, Car int, Customer int, "Sales Person" int);
```

✓

```
1 123INSERT INTO Invoices VALUES(0,'852399038','20180822',0,1,3), (1,'731166526','20181231',3,0,5), (2,'271135104','20190122',2,2,7);
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
0	3K096I98581DHSNUP	Volkswagen	Tiguan	2019	Blue	0	852399038	2018-08-22	0	1	3
2	RKXVNNIHLVVZ0UB4M	Ford	Fusion	2018	White	2	271135104	2019-01-22	2	2	7
3	HKNDGS7CU31E9Z7JW	Toyota	RAV4	2018	Silver	1	731166526	2018-12-31	3	0	5

```
1 1SELECT *FROM Cars LEFT JOIN Invoices ON Cars.ID = Invoices.Car WHERE Invoices.Car IS NULL;
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
1	ZM8G7BEUQZ97IH46V	Peugeot	Rifter	2019	Red	null	null	null	null	null	null
4	DAM41UDN3CHU2WVF6	Volvo	V60	2019	Gray	null	null	null	null	null	null
5	DAM41UDN3CHU2WVF6	Volvo	V60 Cross Country	2019	Gray	null	null	null	null	null	null

```
1 1SELECT *FROM Cars INNER JOIN Invoices ON Cars.ID = Invoices.Car
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
0	3K096I98581DHSNUP	Volkswagen	Tiguan	2019	Blue	0	852399038	2018-08-22	0	1	3
2	RKXVNNIHLVVZ0UB4M	Ford	Fusion	2018	White	2	271135104	2019-01-22	2	2	7
3	HKNDGS7CU31E9Z7JW	Toyota	RAV4	2018	Silver	1	731166526	2018-12-31	3	0	5

```
1 1SELECT *FROM Cars FULL JOIN Invoices ON Cars.ID = Invoices.Car
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
0	3K096I98581DHSNUP	Volkswagen	Tiguan	2019	Blue	0	852399038	2018-08-22	0	1	3
1	ZM8G7BEUQZ97IH46V	Peugeot	Rifter	2019	Red	null	null	null	null	null	null
2	RKXVNNIHLVVZ0UB4M	Ford	Fusion	2018	White	2	271135104	2019-01-22	2	2	7
3	HKNDGS7CU31E9Z7JW	Toyota	RAV4	2018	Silver	1	731166526	2018-12-31	3	0	5
4	DAM41UDN3CHU2WVF6	Volvo	V60	2019	Gray	null	null	null	null	null	null
5	DAM41UDN3CHU2WVF6	Volvo	V60 Cross Country	2019	Gray	null	null	null	null	null	null

6 rows

```
1 1SELECT *FROM Cars FULL JOIN Invoices ON Cars.ID = Invoices.Car WHERE Cars.ID IS NULL OR Invoices.Car IS NULL
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
1	ZM8G7BEUQZ97IH46V	Peugeot	Rifter	2019	Red	null	null	null	null	null	null
4	DAM41UDN3CHU2WVF6	Volvo	V60	2019	Gray	null	null	null	null	null	null
5	DAM41UDN3CHU2WVF6	Volvo	V60 Cross Country	2019	Gray	null	null	null	null	null	null



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ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
1	ZM8G7BEUQZ97IH46V	Peugeot	Rifter	2019	Red	null	null	null	null	null	null
4	DAM41UDN3CHU2WVF6	Volvo	V60	2019	Gray	null	null	null	null	null	null
5	DAM41UDN3CHU2WVF6	Volvo	V60 Cross Country	2019	Gray	null	null	null	null	null	null



```
1 1SELECT *FROM Cars LEFT JOIN Invoices ON Cars.ID = Invoices.Car WHERE Invoices.Car IS NULL
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
1	ZM8G7BEUQZ97IH46V	Peugeot	Rifter	2019	Red	null	null	null	null	null	null
4	DAM41UDN3CHU2WVF6	Volvo	V60	2019	Gray	null	null	null	null	null	null
5	DAM41UDN3CHU2WVF6	Volvo	V60 Cross Country	2019	Gray	null	null	null	null	null	null



```
1 1SELECT *FROM Cars RIGHT JOIN Invoices ON Cars.ID = Invoices.Car
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
0	3K096I98581DHSNUP	Volkswagen	Tiguan	2019	Blue	0	852399038	2018-08-22	0	1	3
3	HKNDGS7CU31E9Z7JW	Toyota	RAV4	2018	Silver	1	731166526	2018-12-31	3	0	5
2	RKXVNNIHLVZOU4M	Ford	Fusion	2018	White	2	271135104	2019-01-22	2	2	7



```
1 1SELECT *FROM Cars RIGHT JOIN Invoices ON Cars.ID = Invoices.Car WHERE Cars.ID IS NULL
```

ID	VIN	Manufacturer	Model	Year	Color	ID	Invoice Number	Date	Car	Customer	Sales Person
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Late contradiction handling

3 13

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i-one

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Anonymous 2148

IS NULL predicate over FILESTREAM column

10 9

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Breaking infinite loop in recursive CTE

25

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artaxerxe



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Jack Douglas



External verification of `SIGNBYCERT()` signatures fr...

3

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