

SQL

DELETE STATEMENT



The DELETE Statement

the DELETE statement

removes records from a database



SQL

```
DELETE FROM table_name  
WHERE conditions;
```

FOREIGN KEY Constraint

ON DELETE CASCADE

if a specific value *from the parent table's primary key* has been deleted, all the records *from the child table* referring to this value will be removed as well

DROP vs TRUNCATE vs DELETE

DROP vs TRUNCATE vs DELETE

DROP

column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

DROP

1
2
3
4
...
10

+

column_1

+

indexes
constraints
...

DROP vs TRUNCATE vs DELETE

DROP

~~1
2
3
...~~
10

+

column_1

+

~~indexes
constraints
...~~

DROP vs TRUNCATE vs DELETE

DROP

- you won't be able to roll back to its initial state, or to the last COMMIT statement

use DROP TABLE only when you are sure you aren't going to use the table in question anymore

DROP vs TRUNCATE vs DELETE

TRUNCATE

column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

TRUNCATE ~ DELETE without WHERE

column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

TRUNCATE ~ DELETE without WHERE

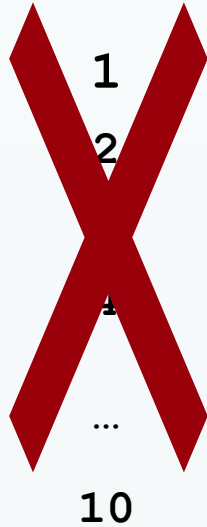
1
2
3
4
...
10

+

column_1

DROP vs TRUNCATE vs DELETE

TRUNCATE ~ DELETE without WHERE

1
2
3
...
10

+

column_1

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
11

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
1

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
1 1

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
1 1
2

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
1 1
2 2

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

column_1
1
2
3
4
...
10

TRUNCATE



column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

DELETE

removes records *row by row*



SQL

```
DELETE FROM table_name  
WHERE conditions;
```

TRUNCATE ~ DELETE without WHERE

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- the SQL optimizer will implement different programmatic approaches when we are using TRUNCATE or DELETE



TRUNCATE delivers the output much *quicker* than DELETE

row by row

row by row

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- the SQL optimizer will implement different programmatic approaches when we are using TRUNCATE or DELETE



TRUNCATE delivers the output much *quicker* than DELETE

~~row by row~~

row by row

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- auto-increment values are *not* reset with DELETE

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- auto-increment values are *not* reset with DELETE

column_1
1
2
3
4
...
10

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- auto-increment values are *not* reset with DELETE

column_1
1
2
3
4
...
10

DELETE



DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- auto-increment values are *not* reset with DELETE

column_1
1
2
3
4
...
10

DELETE



column_1

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

- auto-increment values are *not* reset with DELETE

column_1
1
2
3
4
...
10


DELETE



column_1
11
12
13
14
...
20

Want to master SQL skills?

Explore our SQL courses, ranging from beginner to advanced levels. Sign up now to try the first 2 course sections for free!




SQL

with Martin Ganchev, Vladimi...

4.8/5 ★★★★★ (3250)

12 hours • 121 lessons

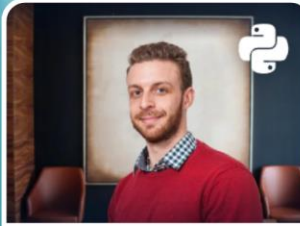


Advanced SQL

with Martin Ganchev, Vladimi...

4.8/5 ★★★★★ (320)

7 hours • 20 lessons



SQL + Tableau + Python

with Martin Ganchev

4.8/5 ★★★★★ (348)

5 hours • 61 lessons

Sign Up Now