The SQL DELETE Statement

365 DataScience

The DELETE Statement

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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
365 DataScience

DROP vs TRUNCATE vs DELETE

column_1
1
2
3
4
…
10

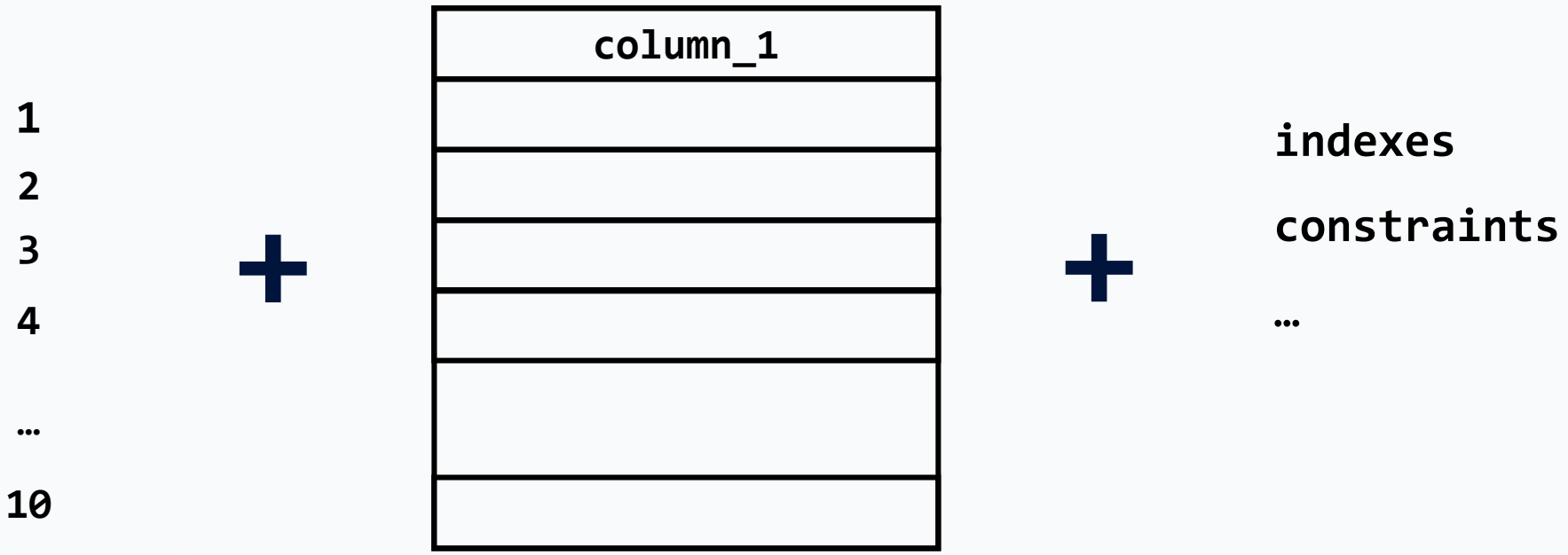
DROP vs TRUNCATE vs DELETE

DROP

column_1
1
2
3
4
…
10

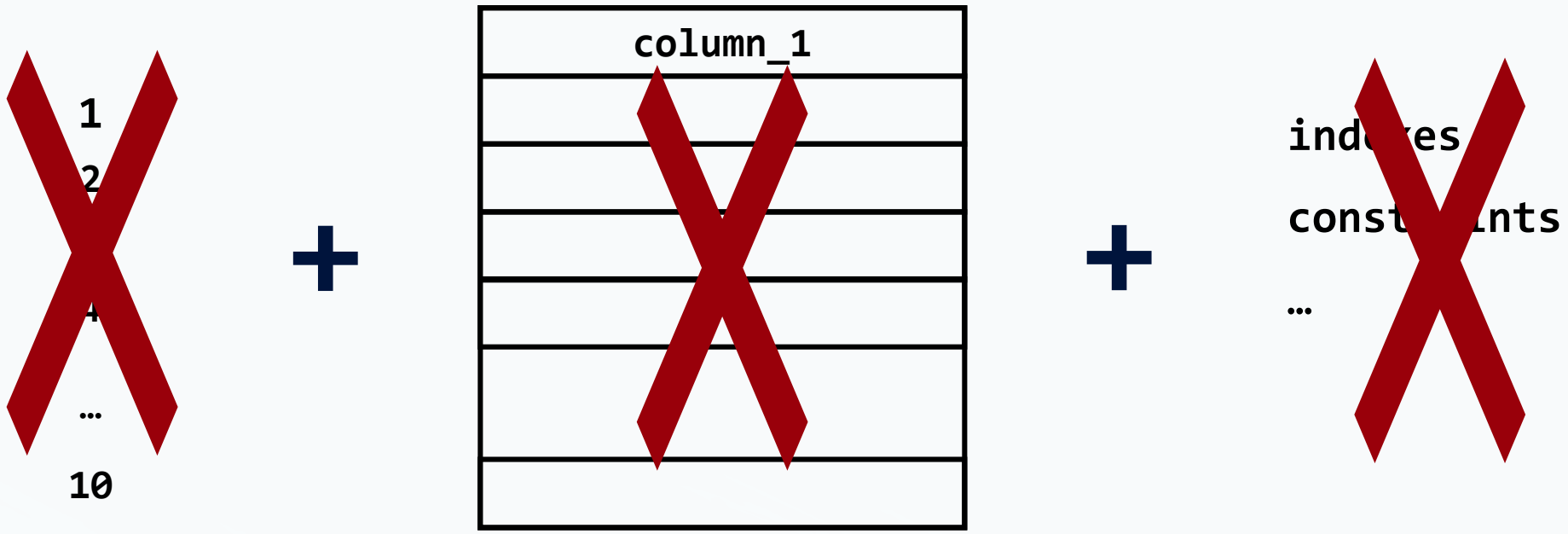
DROP vs TRUNCATE vs DELETE

DROP



DROP vs TRUNCATE vs DELETE

DROP



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

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2
3
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DROP vs TRUNCATE vs DELETE

- TRUNCATE ~ DELETE without WHERE

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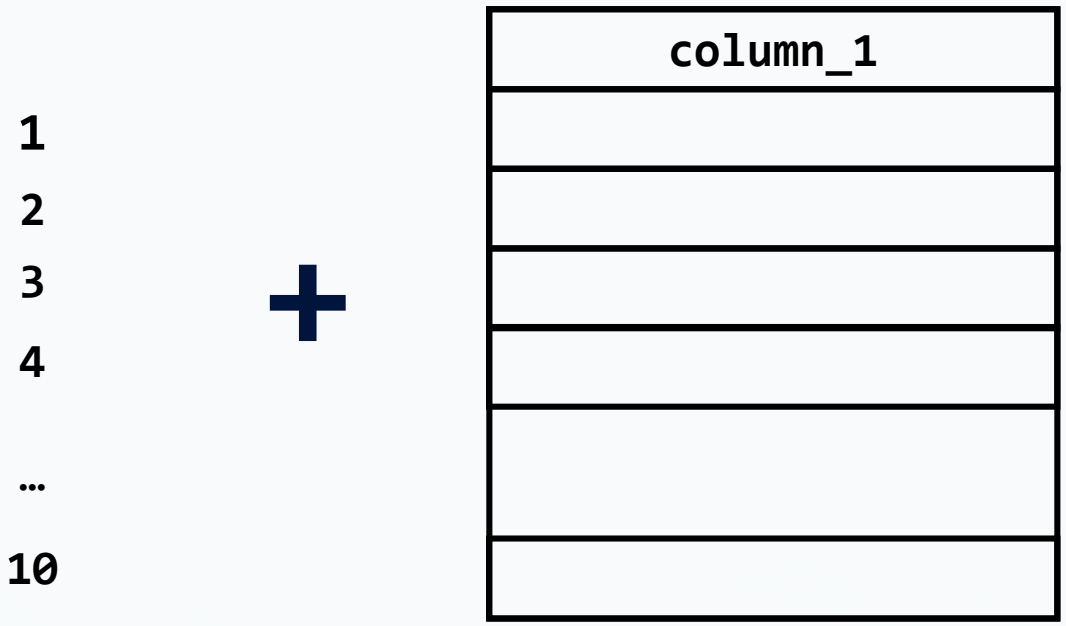
DROP vs TRUNCATE vs DELETE

TRUNCATE ~ DELETE without WHERE



DROP vs TRUNCATE vs DELETE

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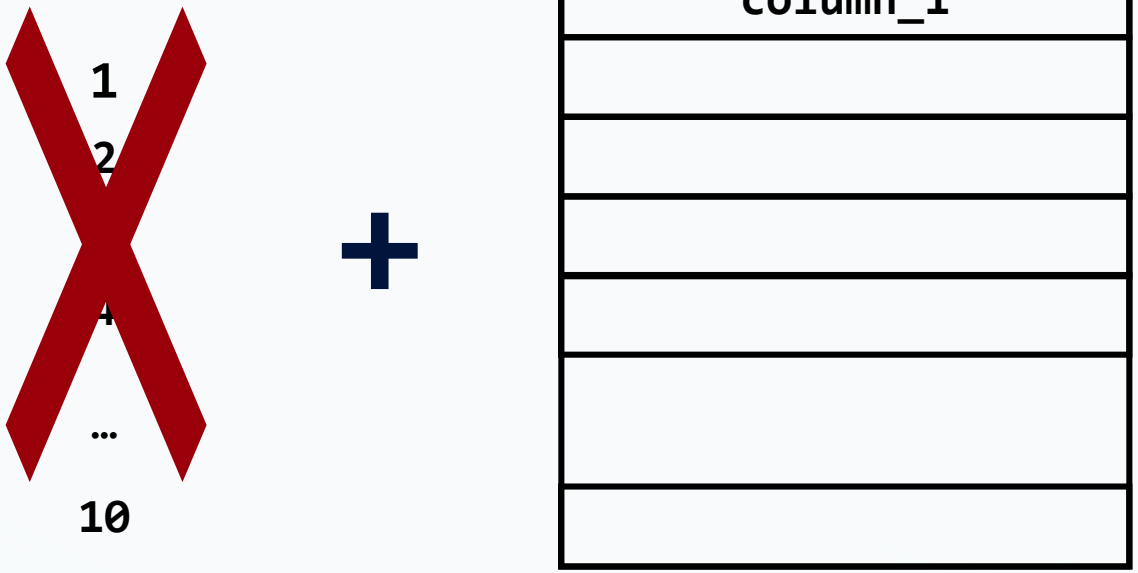

DROP vs TRUNCATE vs DELETE

TRUNCATE

when truncating, auto-increment values will be reset

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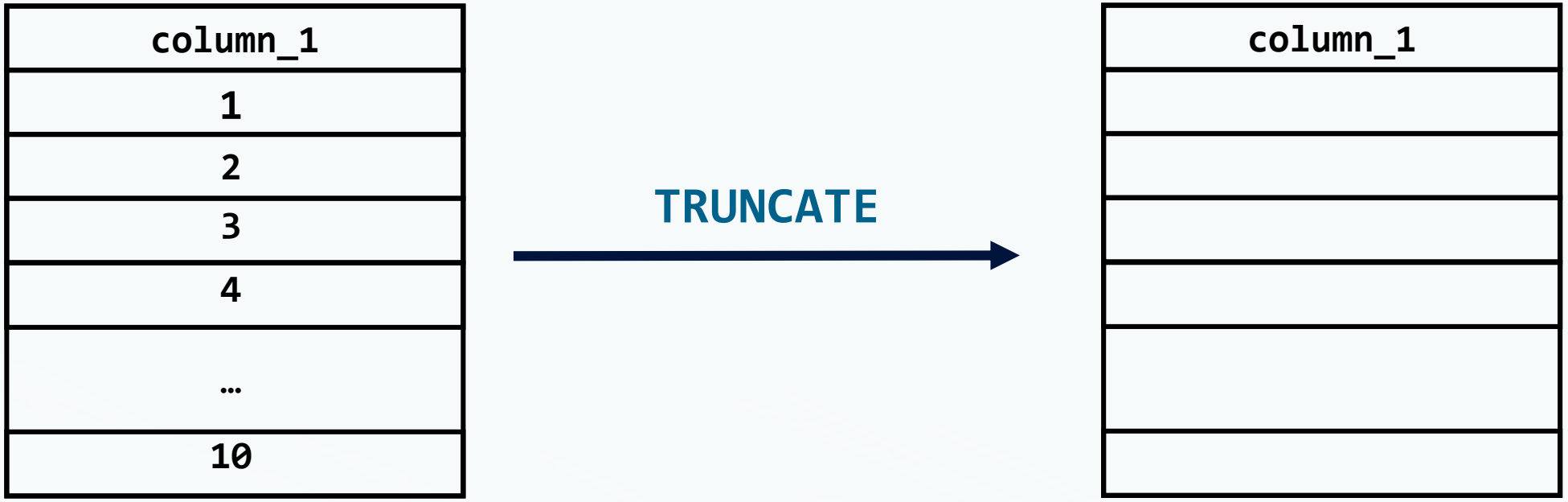

DROP vs TRUNCATE vs DELETE

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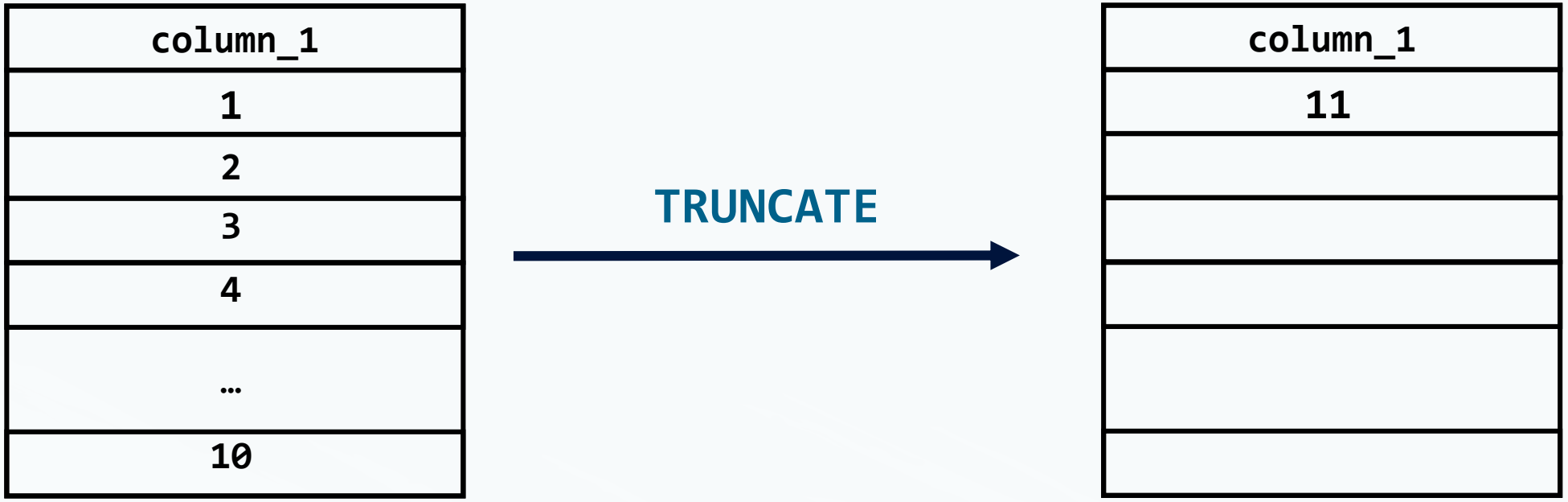

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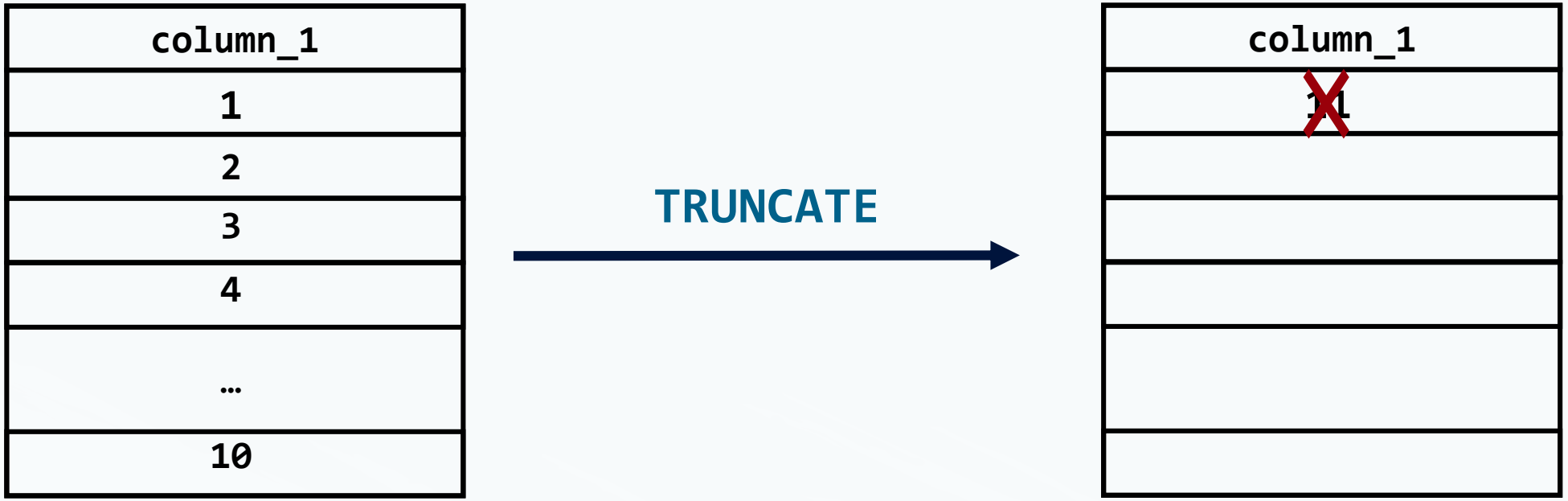

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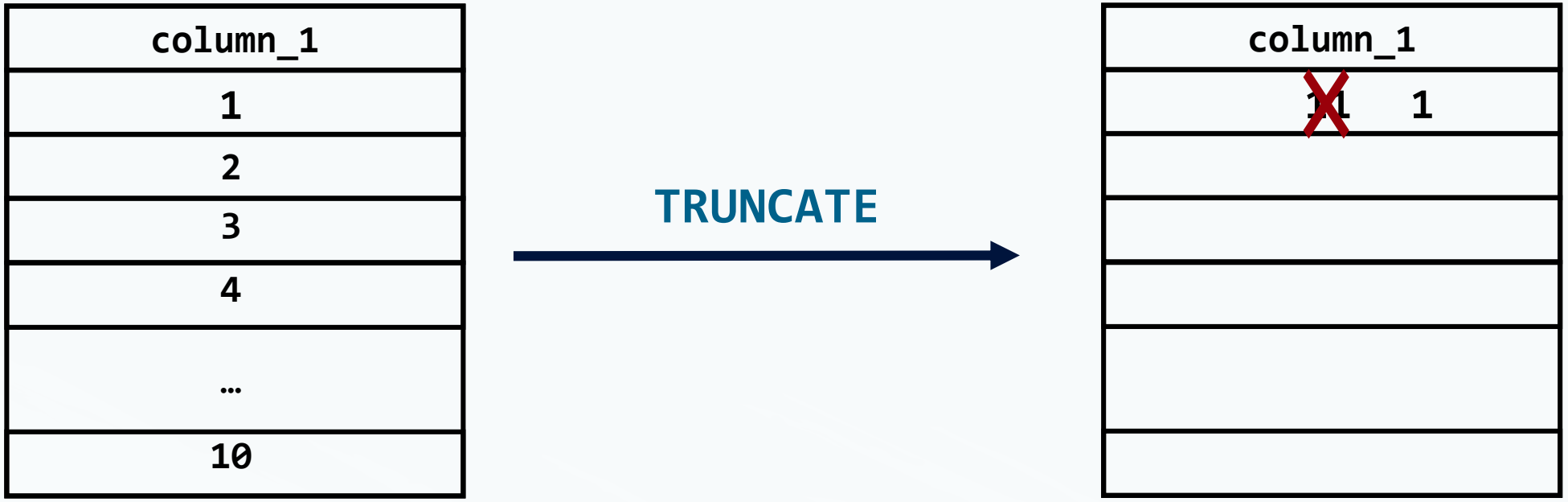

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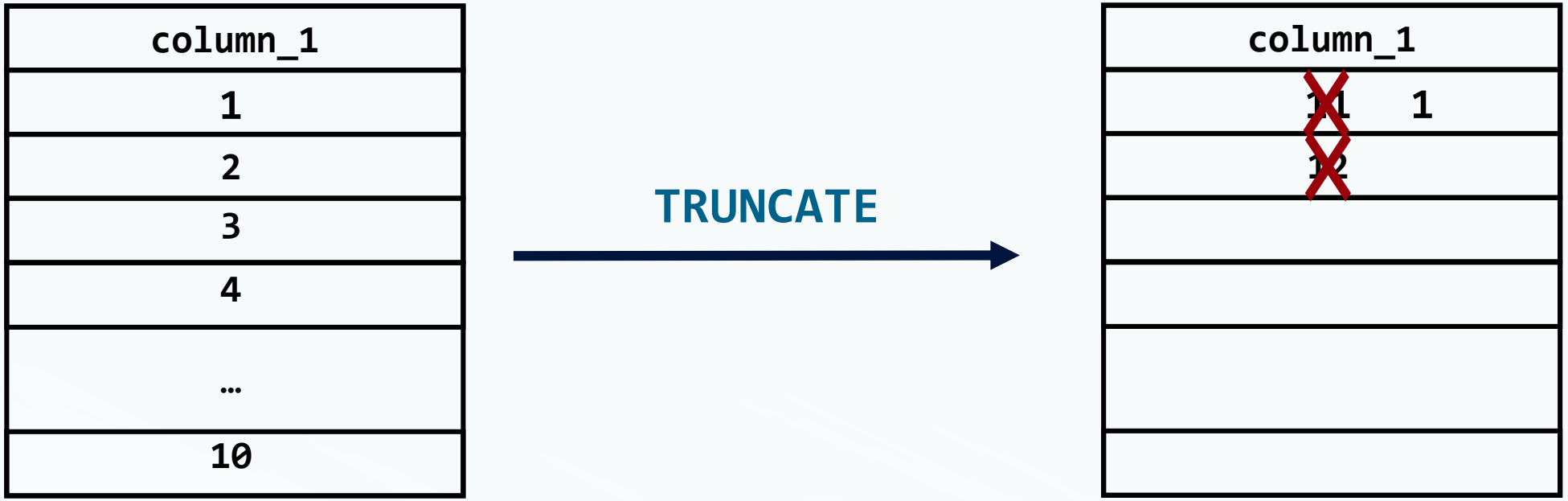

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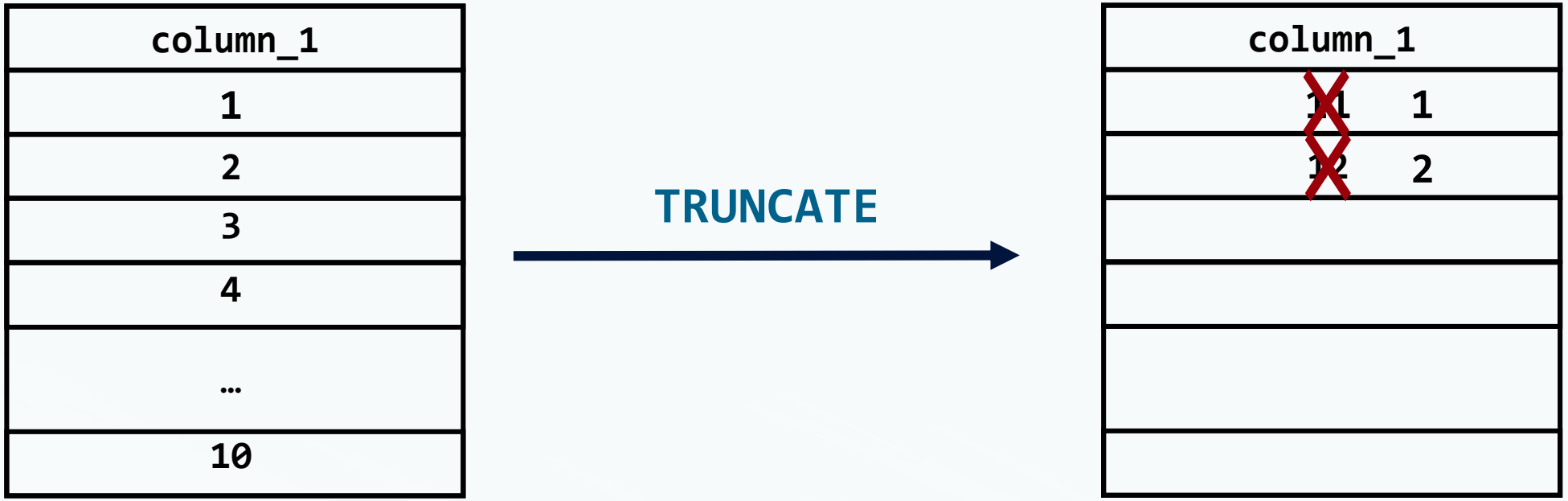

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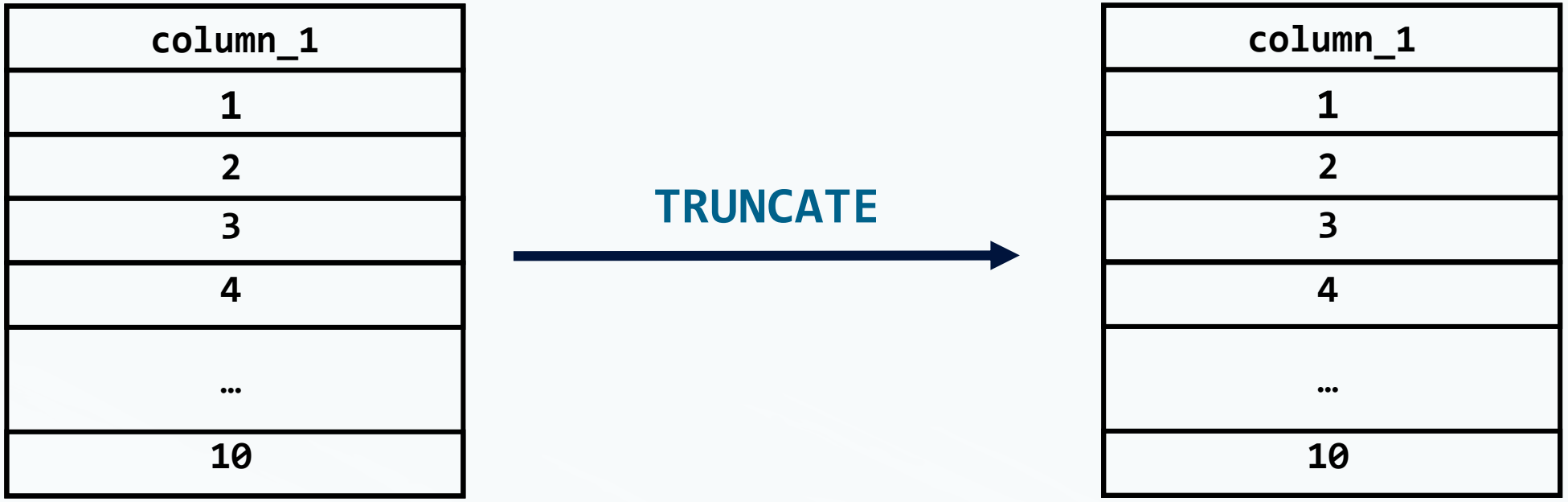

DROP vs TRUNCATE vs DELETE

DELETE

DROP vs TRUNCATE vs DELETE

DELETE

removes records *row by row*

DROP vs TRUNCATE vs DELETE

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removes records *row by row*


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WHERE conditions;
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removes records *row by row*


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TRUNCATE ~ DELETE without WHERE

DROP vs TRUNCATE vs DELETE

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

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TRUNCATE delivers the output much *quicker* than DELETE

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TRUNCATE vs DELETE without WHERE

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TRUNCATE delivers the output much *quicker* than DELETE

row by row *row by row*

DROP vs TRUNCATE vs DELETE

TRUNCATE vs DELETE without WHERE

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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

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DELETE

column_1

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TRUNCATE vs DELETE without WHERE

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column_1
1
2
3
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…
10

DELETE

column_1
11
12
13
14
…
20

Next:

Next:

SQL Functions