V2.0版本新特性: RENAME TO [语句](http://doc.cockroachchina.baidu.com/#develop/sql-statements/overview/) 是 [ALTER SEQUENCE](http://doc.cockroachchina.baidu.com/#develop/sql-statements/ALTER-SEQUENCE/)的一部分，用于更改序列的名称。

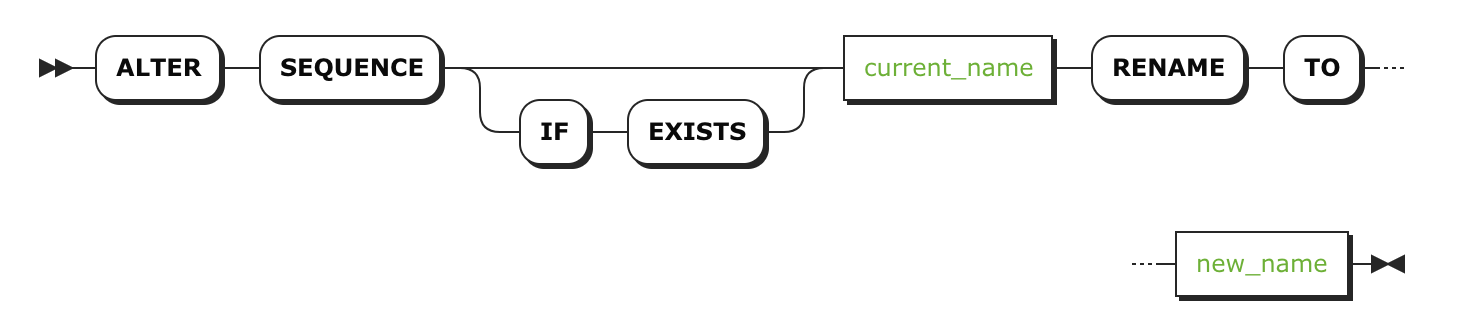
不能重命名表中正在使用的序列。重命名序列的过程：需先执行drop该序列相关的the DEFAULT expressions表达式，其次再重命名序列，最后将执行add该序列相关的the DEFAULT expressions表达式（表达式与drop的相同）。

想要了解CockroachDB如何在不锁表或不停机情况下变更表结构，详情参阅 [Online Schema Changes in CockroachDB](https://www.cockroachlabs.com/blog/how-online-schema-changes-are-possible-in-cockroachdb/)

所需权限

用户必须具有所在数据库的 CREATE [权限](http://doc.cockroachchina.baidu.com/#deploy/access-management/privileges/)

概要



参数

| **参数** | **描述** |
| --- | --- |
| IF EXISTS | 仅在存在该序列的时候执行操作 |
| current\_name | 当前需要变更的序列原名称 |
| new\_name | 序列变更至的新名称, 新名称在该数据库中必须具有唯一性且遵循[标识符 规则](http://doc.cockroachchina.baidu.com/#develop/sql-syntax/keywords-and-identifiers/#identifiers)  Name changes do not propagate to the table(s) using the sequence. |

例子

重命名序列

如下例所示，序列名从 customer\_seq 变更至 customer\_number.

SELECT \* FROM information\_schema.sequences;

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| sequence\_catalog | sequence\_schema | sequence\_name | data\_type | numeric\_precision | numeric\_precision\_radix | numeric\_scale | start\_value | minimum\_value | maximum\_value | increment | cycle\_option |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| def | db\_2 | test\_4 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

| def | test\_db | customer\_seq | INT | 64 | 2 | 0 | 101 | 1 | 9223372036854775807 | 2 | NO |

| def | test\_db | desc\_customer\_list | INT | 64 | 2 | 0 | 1000 | -9223372036854775808 | -1 | -2 | NO |

| def | test\_db | test\_sequence3 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

(4 rows)

ALTER SEQUENCE test\_db.customer\_seq RENAME TO test\_db.customer\_number;

RENAME SEQUENCE

SELECT \* FROM information\_schema.sequences;

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| sequence\_catalog | sequence\_schema | sequence\_name | data\_type | numeric\_precision | numeric\_precision\_radix | numeric\_scale | start\_value | minimum\_value | maximum\_value | increment | cycle\_option |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| def | db\_2 | test\_4 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

| def | test\_db | customer\_number | INT | 64 | 2 | 0 | 101 | 1 | 9223372036854775807 | 2 | NO |

| def | test\_db | desc\_customer\_list | INT | 64 | 2 | 0 | 1000 | -9223372036854775808 | -1 | -2 | NO |

| def | test\_db | test\_sequence3 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

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(4 rows)

移动序列

如下例所示，移动上例中的 (customer\_number) 序列至其他数据库中

SELECT \* FROM information\_schema.sequences;

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| sequence\_catalog | sequence\_schema | sequence\_name | data\_type | numeric\_precision | numeric\_precision\_radix | numeric\_scale | start\_value | minimum\_value | maximum\_value | increment | cycle\_option |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| def | db\_2 | test\_4 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

| def | test\_db | customer\_number | INT | 64 | 2 | 0 | 101 | 1 | 9223372036854775807 | 2 | NO |

| def | test\_db | desc\_customer\_list | INT | 64 | 2 | 0 | 1000 | -9223372036854775808 | -1 | -2 | NO |

| def | test\_db | test\_sequence3 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

(4 rows)

**ALTER** SEQUENCE test\_db.customer\_number **RENAME** **TO** db\_2.customer\_number;

**RENAME** SEQUENCE

**SELECT** \* **FROM** information\_schema.sequences;

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| sequence\_catalog | sequence\_schema | sequence\_name | data\_type | numeric\_precision | numeric\_precision\_radix | numeric\_scale | start\_value | minimum\_value | maximum\_value | increment | cycle\_option |

+------------------+-----------------+--------------------+-----------+-------------------+-------------------------+---------------+-------------+----------------------+---------------------+-----------+--------------+

| def | db\_2 | test\_4 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

| def | db\_2 | customer\_number | INT | 64 | 2 | 0 | 101 | 1 | 9223372036854775807 | 2 | NO |

| def | test\_db | desc\_customer\_list | INT | 64 | 2 | 0 | 1000 | -9223372036854775808 | -1 | -2 | NO |

| def | test\_db | test\_sequence3 | INT | 64 | 2 | 0 | 1 | 1 | 9223372036854775807 | 1 | NO |

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(4 rows)

其他

* [CREATE SEQUENCE](http://doc.cockroachchina.baidu.com/#develop/sql-statements/CREATE-SEQUENCE/)
* [ALTER SEQUENCE](http://doc.cockroachchina.baidu.com/#develop/sql-statements/ALTER-SEQUENCE/)
* [DROP SEQUENCE](http://doc.cockroachchina.baidu.com/#develop/sql-statements/DROP-SEQUENCE/)
* [函数 和 操作符](http://doc.cockroachchina.baidu.com/#develop/functions-and-operators/)