

# ClickHouse 按天设置分区

作者: [flowaters](#)

原文链接: <https://ld246.com/article/1515725760045>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

# 背景

ClickHouse默认为每月一个分区

# 问题

如何实现每天一个分区呢，或者每周一个分区：)

# 方法

在54310版本中，支持了这个功能。

# 升级到版本 > 54310

具体略

# 转为开发模式

```
SET experimental_allow_extended_storage_definition_syntax = 1;
```

或者改配置文件

```
<profiles>
  <default>
    <experimental_allow_extended_storage_definition_syntax>1</experimental_allow_ext
nded_storage_definition_syntax>
  </default>
</profiles>
```

# 具体的SQL

```
SELECT '*** Partitioned by week ***';
```

```
DROP TABLE IF EXISTS test.partitioned_by_week;
```

```
CREATE TABLE test.partitioned_by_week(d Date, x UInt8) ENGINE = MergeTree PARTITION BY
oMonday(d) ORDER BY x;
```

```
-- 2000-01-03 belongs to a different week than 2000-01-01 and 2000-01-02
```

```
INSERT INTO test.partitioned_by_week VALUES ('2000-01-01', 1), ('2000-01-02', 2), ('2000-01-
3', 3);
```

```
INSERT INTO test.partitioned_by_week VALUES ('2000-01-03', 4), ('2000-01-03', 5);
```

```
SELECT 'Parts before OPTIMIZE:';
```

```
SELECT partition, name FROM system.parts WHERE database = 'test' AND table = 'partitioned
by_week' AND active ORDER BY name;
```

```
OPTIMIZE TABLE test.partitioned_by_week PARTITION '2000-01-03' FINAL;
```

```
SELECT 'Parts after OPTIMIZE:';
```

```
SELECT partition, name FROM system.parts WHERE database = 'test' AND table = 'partitioned
by_week' AND active ORDER BY name;
```

```
SELECT 'Sum before DROP PARTITION:';
SELECT sum(x) FROM test.partitioned_by_week;
ALTER TABLE test.partitioned_by_week DROP PARTITION '1999-12-27';
SELECT 'Sum after DROP PARTITION:';
SELECT sum(x) FROM test.partitioned_by_week;
```

更多SQL见[4].

## 删除分区

```
ALTER TABLE [db.]table DROP PARTITION 'name'
```

注：如果有多个副本，删除分区操作只能在主副本上操作，否则会报一个异常。

## 参考

1. [Custom partitioning in ClickHouse 1.1.54310](#)
2. [Arbitrary partitioning key for MergeTree engine family](#)
3. [how to delete data at specific hour](#)
4. [00502\\_custom\\_partitioning\\_local.sql](#)
5. [Custom partitioning.](#)