



链滴

# MySQL单表删除重复列

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原文链接: <https://ld246.com/article/1459243986604>

来源网站: [链滴](#)

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

<p>这其实是一个面试题，但是我没答上来。 (≥\_\_\_\_\_≤)</p>

<p> </p>

<h2>一、需求</h2>

<p>有一张表，数据类似于： </p>

<p>id name</p>

<p>1 x</p>

<p>2 x</p>

<p>3 y</p>

<p>4 z</p>

<p>5 z</p>

<p> </p>

<p>要求删除name重复的记录，只留下同名的第一条</p>

<p> </p>

<h2>二、解决</h2>

<h3>1. 先创建表、测试数据</h3>

```
<pre class="brush: sql">CREATE TABLE `test` (  
  `id` int(10) NOT NULL DEFAULT '0',  
  `name` varchar(60) DEFAULT NULL,  
  PRIMARY KEY (`id`)  
</pre>
```

);

```
insert into test values(1, 'zhangsan'), (2, 'zhangsan'), (3, 'lisi'), (4, 'wangwu'), (5, 'wangwu'), (6, 'angwu'), (7, 'zhaoliu'), (8, 'zhaoliu'), (9, 'jack'), (10, 'rose');
```

<p> </p>

<p>数据如下</p>

```
<pre class="brush: sql">mysql> select * from test;
```

```
+-----+
```

```
| id | name |
```

```
+-----+
```

```
| 1 | zhangsan |
```

```
| 2 | zhangsan |
```

```
| 3 | lisi |
```

```
| 4 | wangwu |
```

```
| 5 | wangwu |
```

```
| 6 | wangwu |
```

```
| 7 | zhaoliu |
```

```
| 8 | zhaoliu |
```

```
| 9 | jack |
```

```
| 10 | rose |
```

```
+-----+
```

```
10 rows in set (0.00 sec)</pre>
```

<p> </p>

<p> </p>

<h3>2. SQL</h3>

<p>方法1：多表delete语法</p>

```
<pre class="brush: sql">mysql> DELETE ta FROM test ta, test tb where ta.name=tb.name and  
a.id>tb.id;
```

```
Query OK, 4 rows affected (0.05 sec)
```

```
mysql> select * from test;
```

```
+-----+
```

```

| id | name |
+----+-----+
| 1 | zhangsan |
| 3 | lisi |
| 4 | wangwu |
| 7 | zhaoliu |
| 9 | jack |
| 10 | rose |
+----+-----+

```

6 rows in set (0.00 sec) </pre>

<p> </p>

<p>方法2: 中间表的方式</p>

```

<pre class="brush: sql">create table test_tmp like test;

```

```

insert into test_tmp select min(id), name from test group by name;

```

```

drop table test;

```

```

rename table test_tmp to test;</pre>

```

<p> </p>

<p>方法n</p>

<p>其实还有其他的方法, 比如说: </p>

<ul>

<li>新建test\_tmp, 在name字段上添加唯一索引, 然后, 用insert ignore into方法。 </li>

<li>导出到文件, 然后在加载回来的过程中去重。参考: <a href="http://imysql.cn/node/222">imysql.cn/node/222</a> </li>

</ul>

<p> </p>

<p>暂时不知道几种方法在<em><strong>性能上的优缺点</strong></em>。 </p>

<p> </p>

<h3>3. 什么方法不行</h3>

```

<pre class="brush: sql">mysql> delete from test where id not in (select min(id) as id from test group by name);</pre>

```

```

<p class="brush: sql"><br />ERROR 1093 (HY000): You can't specify target table 'test' for update in FROM clause</p>

```

```

<p class="brush: sql">不支持此语法! 虽然这是我第一个想到的方法, 我的MySQL是5.6.23版本的<p>

```

```

<p class="brush: sql"><br /><br /><br /><br /></p>

```