



链滴

Mysql 临时表示例

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业务场景

某表里的数据是每整点时刻存入一次，但是有可能漏掉某个时刻，比如2019-04-27 14:00:00有数据有可能上一个整点2019-04-27 13:00:00没有数据。

需求

查询出24小时内该表所有的数据并返回给前端进行Echarts图表展示

问题

如果数据全部正常的话，查出来应该是24条，但是极大情况是不够24条，这就需要增加空白行，即使个空白行记录的时间在表里没有对应。

解决办法

创建临时表，并insert24小时段，临时表在会话结束时会自动删除。

```
CREATE TEMPORARY TABLE tmp ( format_data VARCHAR ( 50 ) NOT NULL );
```

```
INSERT INTO tmp ( format_data )
```

```
VALUES
```

```
( DATE_FORMAT( ( NOW() - INTERVAL 24 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 23 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 22 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 21 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 20 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 19 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 18 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 17 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 16 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 15 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 14 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 13 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 12 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 11 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 10 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 9 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 8 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 7 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 6 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 5 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 4 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 3 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 2 HOUR ), '%Y-%m-%d %H:00:00' ) ),  
( DATE_FORMAT( ( NOW() - INTERVAL 1 HOUR ), '%Y-%m-%d %H:00:00' ) );
```

```
SELECT
```

```
  a.*
```

```
FROM
```

```
  tmp
```

```
  LEFT JOIN (
```

```
    SELECT
```

```
      sta_basic_info.STA_NUM,
```

```
    sta_basic_info.STA_NAME,  
    dat_aws_hour_qc.OBSERVE_TIME  
FROM  
    dat_aws_hour_qc  
    LEFT JOIN sta_basic_info ON sta_basic_info.STA_NUM = dat_aws_hour_qc.STATION_COD  
  
    AND sta_basic_info.STA_TYPE = '4'  
WHERE  
    dat_aws_hour_qc.OBSERVE_TIME >= ( NOW() - INTERVAL 24 HOUR )  
    AND dat_aws_hour_qc.STATION_CODE = '50442'  
ORDER BY  
    dat_aws_hour_qc.STATION_CODE,  
    dat_aws_hour_qc.OBSERVE_TIME  
    ) a ON tmp.format_data = a.OBSERVE_TIME  
ORDER BY  
    tmp.format_data
```