Common Table Expression - 让SQL语句更加简洁，而且实现强大的查询功能。

WITH t1(id, timeindex, equipmentid) as

(

SELECT ROW\_NUMBER() OVER(ORDER BY timeindex ASC) as id, timeindex, equipmentid from equipment

)

UPDATE a

set a.id = b.id

FROM equipment a

INNER JOIN t1 b on (a.timeindex = b.timeindex AND a.equipmentid = b.equipmentid)

以下语句是 每条记录和自己的上一条记录进行运算

WITH t1(no1, id1, timeindex1, equipmentid1, uploadtime1, filepath1) as

(

SELECT ROW\_NUMBER() over(order by timeindex desc) as row\_no, id, timeindex, equipmentid, uploadtime ,filepath from [tmlogdata]

), t2(no2, id2, timeindex2, equipmentid2, uploadtime2, filepath2) as

(

SELECT no1-1 as no2, id1, timeindex1, equipmentid1, uploadtime1, filepath1 from t1

)

select no1, no2, id1, id2, DATEDIFF(SECOND, timeindex2, timeindex1) as durlen, timeindex1, timeindex2 from t1 INNER JOIN t2 on (t1.no1 = t2.no2)