**必知必会的窗口函数一：基础**

这次的文章我们来看一看，《SQL进阶教程》第二章节的知识点-窗口函数。在学习的过程中我们将对某一些案例使用Pandas来重写和复现。这样就能对窗口函数有一个更为深度的认识。

**CREATE** **TABLE** ServerLoadSample

(

**server** **varchar**(10),

sample\_date **date** **NOT** **NULL**,

load\_val **INTEGER** **NOT** **NULL**

);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-01',1024);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-02',2366);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-05',2366);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-07',985);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-08',780);

**INSERT** **INTO** ServerLoadSample **VALUES**('A', **date**'2018-02-12',1000);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-01',54);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-02',39008);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-03',2900);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-04',556);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-05',12600);

**INSERT** **INTO** ServerLoadSample **VALUES**('B', **date**'2018-02-06',7309);

**INSERT** **INTO** ServerLoadSample **VALUES**('C', **date**'2018-02-01',1000);

**INSERT** **INTO** ServerLoadSample **VALUES**('C', **date**'2018-02-07',2000);

**INSERT** **INTO** ServerLoadSample **VALUES**('C', **date**'2018-02-16',500);

1. **参考文献**
2. MICK-《SQL进阶教程》第2版
3. Joe Celko-《SQL权威指南》
4. <https://learnsql.com/blog/sql-window-functions-rows-clause/>
5. http://pandas.pydata.org/docs/user\_guide/index.html