

A yellow rectangular frame with a thin border, centered on the slide. It consists of a top horizontal line, a bottom horizontal line, and two vertical lines on the left and right sides, forming a rectangle.

SPL parsing and exporting Excel

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| 1 Parsing

It is a common task in data analysis to parse data in Excel files into structured data (such as importing into relational database). However, many Excel files are irregular in format, and the structuring workload is relatively large. Besides it is difficult to be used universally, and it is necessary to analyze file formats before the actual developing work.

Therefore, If there is a tool software that can easily complete this work, it will greatly help business work and improve business efficiency.

esProc is such an efficient and flexible tool, which can easily read Excel data, and then structured them into a "sequence table" before processing.

Next, we will discuss how to use esProc to structure Excel data in different situations.

1.1 Ordinary Style

Simplest case: The first row in the Excel file is the column header, and from the second row onward, each row is a data record.

| | A | B | C | D | E | F | G |
|---|--------|-------|-------|-----|---------|-------|---------|
| 1 | No | Name | Class | Sex | Chinese | Maths | English |
| 2 | 110210 | Lorry | 5(1) | M | 80 | 60 | 86 |
| 3 | 110211 | Tom | 5(1) | M | 81 | 72 | 67 |
| 4 | 110212 | Curry | 5(1) | F | 97 | 91 | 87 |
| 5 | 110213 | Joan | 5(1) | F | 86 | 69 | 73 |

A1 Open the "scores.xlsx" file and import it into a sequence table. The option @t indicates that the first row of the file is the column heading.

A2 Write the sequence table in A1 as a text file, keeping the original header.

| | A |
|---|------------------------------------|
| 1 | =file("scores.xlsx").xlsimport@t() |
| 2 | =file("scrores.txt").export@t(A1) |

The sequence table obtained in A1 is as follows:

| Index | No | Name | Class | Sex | Chinese | Maths | English |
|-------|--------|-------|-------|-----|---------|-------|---------|
| 1 | 110210 | Lorry | 5(1) | M | 80 | 60 | 86 |
| 2 | 110211 | Tom | 5(1) | M | 81 | 72 | 67 |
| 3 | 110212 | Curry | 5(1) | F | 97 | 91 | 87 |
| 4 | 110213 | Joan | 5(1) | F | 86 | 69 | 73 |

1.2 Multi-row header Style

The table header is complex, including the table name, the project name, the page number, the filler, the date of filling in, and so on.

| | A | B | C | D | E | F | G |
|---|-----------------------|-------------|------------------------------|-------------------|----------|------------------|------------|
| 1 | Item Lists And Prices | | | | | | |
| 2 | Project: Building | | | page 1/total 52 | | | |
| 3 | No | Item Code | Item Name | Unit | Quantity | SumOfMoney(yuan) | |
| 4 | | | | | | Price | Sum |
| 5 | 1.1.2 | NJSJ | Internal scaffolding | term | | | |
| 6 | 1.1.2.1 | 11001004001 | Internal scaffolding | term | 1.00 | 1006577.54 | 1006577.54 |
| 7 | 1.1.2.1.1.1 | A22-28 | Steel pipe | 100m ² | 137.88 | 912.07 | 125756.21 |
| 8 | 1.1.2.1.1.2 | A22-28 | Base of internal scaffolding | 100m ² | 71.83 | 912.07 | 65513.99 |

A1 Open the file and import the data into a sequence table. The parameter "1,5" means to read the first sheet, starting at line 5, until the end of the file.

A2 Change the sequence table column name in A1 to "No, Itemcode, Itemname, Unit, Quantity, Price, Sum", that is, the column name of the data table to be imported.

| | A |
|---|---|
| 1 | =file("listsAndPrices.xlsx").xlsimport(;1,5) |
| 2 | =A1.rename(#1:No,#2:ItemCode,#3:ItemName,#4:Unit,#5:Quantity,#6:Price,#7:Sum) |

The sequence table obtained in A2 is as follows:

| Index | No | ItemCode | ItemName | Unit | Quantity | Price | Sum |
|-------|-------------|------------|------------|-------------------|----------|------------|------------|
| 1 | 1.1.2 | NJSJ | Internal | term | | | |
| 2 | 1.1.2.1 | 1.1001E+10 | Internal | term | 1 | 1006577.54 | 1006577.54 |
| 3 | 1.1.2.1.1.1 | A22-28 | Steel pipe | 100m ² | 137.88 | 912.07 | 125756.21 |
| 4 | 1.1.2.1.1.2 | A22-28 | Base of | 100m ² | 71.83 | 912.07 | 65513.99 |

1.3 Free Format

Sometimes the data in Excel file is not the regular table in grid format, but the free format of the field name followed by the field value.

| | A | B | C | D | E | F | G | |
|----|-----------|---------------------------------|-----|---|---|---|---|--|
| 1 | ID: | 1 | | | | | |  |
| 2 | Name: | Yin Zhang | Sex | F | | | | |
| 3 | Position | Sales | | | | | | |
| 4 | Birthday | 1968-12-08 | | | | | | |
| 5 | Phone: | (010) 65559857 | | | | | | |
| 7 | Address: | No. 236 of Fuxingmen Beijing | | | | | | |
| 8 | PostCode: | 100098 | | | | | | |
| 9 | | | | | | | | |
| 10 | ID: | 2 | | | | | | |
| 11 | Name: | Wei Wang | Sex | M | | | | |
| 12 | Position | Sales Manager | | | | | | |
| 13 | Birthday | 1962-02-19 | | | | | | |
| 14 | Phone: | (010) 65559482 | | | | | | |
| 16 | Address: | No. 890 of Luoma Garden Beijing | | | | | | |
| 17 | PostCode: | 109801 | | | | | | |
| 18 | | | | | | | | |
| 19 | ID: | 3 | | | | | | |

Each employee's information takes up 9 lines, which are arranged in order. How to structure this kind of file? Please see:

| | A | B | C |
|---|--|-------------------------------------|-------|
| 1 | =create(ID,Name,Sex,Position,Birthday,Phone,Address,Post Code) | | |
| 2 | =file("Employee.xlsx").xlsopen() | | |
| 3 | [C,C,F,C,C,D,C,C] | [1,2,2,3,4,5,7,8] | |
| 4 | for | =A3.(~/B3(#)).(eval(\$[A2.xlsxcell(| |
| 5 | | ~/~")) | |
| 5 | | if len(B4(1))==0 | break |
| 6 | | >A1.record(B4) | |
| 7 | | >B3=B3.(~+9) | |



1.3 Free Format

- A1 Create an empty sequence table with column names “ID, Name, Sex, Position, Birthday, Phone, Address, PostCode”
- A2 Open Excel file
- A3 Define the cell column number sequence of employee information
- B3 Define the cell row number sequence of employee information
- A4 Use for loop to read each employee's information
- B4 A3.(~/B3(#)) first calculate the current employee cell number sequence, and then read out these cell values to form the employee information sequence. The first cycle is [C1, C2, F2, C3, C4, D5, C7, C8], the second cycle is [C10, C11, F11, C12, C13, D14, C16, C17]... Add 9 to the row number each time. \$[A2.xlscell()] is the same as “A2.xlscell(”, representing a string.
- B5 Judge whether the employee ID value is empty. If it is empty, exit the loop and end the operation.
- B6 Store an employee's information at the end of A1 sequence
- B7 Add 9 to the row number sequence of employee information to read the next employee information

The sequence table obtained in A1 is as follows:

| Index | ID | Name | Sex | Position | Birthday | Phone | Address | PostCode |
|-------|----|------------|-----|----------------|-----------|----------------|-----------------------------------|----------|
| 1 | 1 | Yin Zhang | F | Sales | 1968-12-8 | (010) 65559857 | No. 236 of Fuxingmen Beijing | 100098 |
| 2 | 2 | Wei Wang | M | Sales Manager | 1962-2-19 | (010) 65559482 | No. 890 of Luoma Garden Beijing | 109801 |
| 3 | 3 | Fang Li | F | Market | 1973-8-30 | (010) 65553412 | No. 253 of Shaoyao Garden Beijing | 198033 |
| 4 | 4 | Jianjie He | M | Market Manager | 1968-9-19 | (010) 65558122 | No. 45 of Qianmen Street Beijing | 198052 |

1.4 Cross Table

Excel also has data in crosstab format.

| | A | B | C | D | E | F | G | H | |
|---|-------------------|--------|------|------|--------|-------|-------|-----------|-----------|
| 1 | Orders Statistics | | | | | | | | |
| 2 | Type | Area | West | East | Center | North | South | Northwest | Southwest |
| 3 | Urgent express | Amount | 20 | 70 | 1 | 97 | 23 | 2 | 35 |
| 4 | Unified parcel | | 25 | 89 | 1 | 148 | 39 | 3 | 27 |
| 5 | Federal cargo | | 15 | 79 | 52 | 108 | 29 | 2 | 23 |
| 6 | Air transport | | 5 | 1 | 12 | 1 | 1 | 9 | 6 |
| 7 | Cash on Delivery | | 8 | 2 | 4 | 1 | 6 | 7 | 9 |
| 8 | General express | | 32 | 41 | 36 | 48 | 26 | 22 | 18 |

- A1 Open the file and import the data into a sequence table.
- A2 Because the first cell in the second row is a picture, the read data is null, and the first column has no column title, so change the name of the first column to type.
- A3 Row and column transpose the sequence table data by grouping type. The option @ r means to convert the column data to row data. After conversion, the new column names are "area" and "amount".

The sequence table obtained in A3 is as follows:

```

1 =file("cross.xlsx").xlsimport@t(;1,2)
2 =A1.rename(#1:Type)
3 =A2.pivot@r(Type;Area,Amount)
  
```

| Index | Type | Area | Amount |
|-------|----------------|-----------|--------|
| 1 | Urgent express | West | 20 |
| 2 | Urgent express | East | 70 |
| 3 | Urgent express | Center | 1 |
| 4 | Urgent express | North | 97 |
| 5 | Urgent express | South | 23 |
| 6 | Urgent express | Northwest | 2 |
| 7 | Urgent express | Southwest | 35 |
| 8 | Unified parcel | West | 25 |
| 9 | Unified parcel | East | 89 |

1.5 Main sub-table

In the employee information table shown in the figure below, in addition to the employee's own information, there is also family member information. Each sheet keeps information about an employee, so there are as many sheets as there are employees. The following figure shows the contents of the first sheet:

| | A | B | C | D | E | F | G | H |
|---|-----------------------------|--------------------|-----------------|------------------|------------------|--------------|---------------|----------|
| 1 | Employee Information | | | | | | | |
| 2 | company | XX company | | | date: 1982-06-25 | | | |
| 3 | Name | San Zhang | Sex | M | Birthdate | 1982-06-25 | Nation | han |
| 4 | IDCard | 510121198206253112 | | | Phone | 13612345678 | Depart | Research |
| 5 | Home | No. 25 Xisanqi | | Marital | Married | Entry | 2002-02 | |
| 6 | Family | Name | Relation | Workplace | | Phone | | |
| 7 | | Zhou Zhang | farther | retired | | 15313231568 | | |
| 8 | | Yin Hu | wife | XX company | | 13718826593 | | |
| 9 | | Wuji Zhang | son | XX school | | | | |

- A1 Create an empty sequence table with column names "IDcard, name, sex, birthday, nation, phone, Dept, home, maritime, entry" to save the employee information in the main table
- A2 Create an empty order table with column names "IDcard, name, relation, workplace, phone" to save the information of employee family members in the sub table
- A3 Define the cell sequence of employee information in the main table
- A4 Open Excel file

| | A | B | C |
|---|--------|--|-----------------------|
| 1 | | =create(IDCard,Name,Sex,Birthday,Nation,Phone,Depart,Home,Marital,Entry) | |
| 2 | | =create(IDCard,Name,Relation,Workplace,Phone) | |
| 3 | | [B4,B3,D3,F3,H3,F4,H4,B5,F5,H5] | |
| 4 | | =file("employee.xlsx").xlsopen() | |
| 5 | for A4 | =A3.(eval(\$[A4.xlscell(]/~/",\"/A5.stname/"")) | >A1.record(B5) |
| 6 | | =A4.xlsimport@t(Family,Name,Relation,Workplace,Phone;A5.stname,6) | |
| 7 | | =B6.rename(Family:IDCard) | >B7.run(IDCard=B5(1)) |
| 8 | | >A2.insert@r(0:B7) | |



1.5 Main sub-table

- A5 Read each sheet of the Excel file in loop
- B5 Read employee information sequence
- C5 Save the employee information read by B5 to sequence table A1
- B6 Read the employee family member information from row 6 onward, read only the specified "family, name, relationship, workplace, phone" 5 columns.
- B7 Change the name of family column of B6 sequence table to IDcard
- C7 Assign IDcard column of B7 sequence table to IDcard in employee information
- B8 Save employee family member information in B7 to sequence table A2

The sequence table obtained in A1 is as follows:

| Index | IDCard | Name | Sex | BirthDay | Nation | Phone | Depart | Home | Marital | Entry |
|-------|--------------------|-------------|-----|-----------|--------|-------------|----------|----------------------|---------|----------|
| 1 | 510121198206253000 | San Zhang | M | 1982-6-25 | han | 13612345678 | Research | No.25 Xisanqi | married | 2002-2-1 |
| 2 | 110114198907286000 | Si Li | M | 1989-7-28 | han | 13818022624 | Sales | No.302 Lifeng Garden | free | 2008-6-1 |
| 3 | 310503198803243000 | Xiaoyu Zhao | F | 1988-3-24 | miao | 13852416325 | HR | No.501 Yuquyuan | married | 2005-1-1 |

The sequence table obtained in A2 is as follows:

| Index | IDCard | Name | Relation | Workplace | Phone |
|-------|--------------------|------------|----------|---------------------|-------------|
| 1 | 510121198206253000 | Zhou Zhang | farther | retired | 15313231568 |
| 2 | 510121198206253000 | Yin Hu | wife | XX company | 13718826593 |
| 3 | 510121198206253000 | Wuji Zhang | son | XX school | |
| 4 | 110114198907286000 | Dasuan Li | farther | XX trade company | 13625689532 |
| 5 | 110114198907286000 | Haixia Liu | mother | XX supermarket | 13924689512 |
| 6 | 310503198803243000 | Darong Luo | husband | XX software company | 13598325647 |
| 7 | 310503198803243000 | Xiaolu Luo | daughter | XX primary school | |

1.6 Import large amount of data

If there are a large number of data records in Excel file and can't fit in memory, how to import them?

| | A | B | C | D | E |
|--------|-------|---------|--------|------------|---------|
| 1 | ID | Company | Area | OrderDate | Amount |
| 123661 | 10251 | Qiangu | East | 2012-07-08 | 624.9 |
| 123662 | 10252 | Fuxing | West | 2012-07-09 | 3059.49 |
| 123663 | 10253 | Shiyi | North | 2012-07-10 | 1428 |
| 123664 | 10254 | Haotian | Center | 2012-07-11 | 545.3 |

A1 Open the "orders.xlsx" file and import it as a cursor. The @t option indicates that the first row of the file is the column title, and the @C option indicates that the cursor is returned.
A2 Store the cursor data in A1 into the text file orders.txt, keeping the title unchanged

| | A |
|---|-------------------------------------|
| 1 | =file("orders.xlsx").xlsimport@tc() |
| 2 | =file("orders.txt").export@t(A1) |

This example is very similar to 1.1, except that the @c option is used in A1 to read with a cursor. Only Excel files in xlsx format can be read using cursor.

2 Exporting

Sometimes we need to use a program to automatically generate Excel files. VBA with excel is not very easy to use, and esProc as a data processing tool will be very convenient to achieve this requirement.

The following will introduce how to generate excel file with esProc. The powerful data calculation ability of esProc is not the focus here. Therefore, the text is simply used as a data source example here. In practical application, it may take data from various data sources, and then get the data to be exported through a series of operations.



2.1 Export data only

2.1.1 Export new file

| | A |
|---|--|
| 1 | =file("orders.txt":"UTF-8").import@t() |
| 2 | =file("orders.xlsx").xlsexport@t(A1) |

A1 Read in an enterprise order table in text format, simulating the data that may be obtained through calculation.

A2 Export the data of A1 to the orders.xlsx file (automatically created when the file does not exist). There is no field specified in the parameter of the function xlsexport. All fields of A1 will be exported and the field name will remain unchanged. Because you do not specify which sheet to export to, export to Sheet1. The function uses the option @t to export the field name to the first row.

Exported Excel file:

| | A | B | C | D | E | F |
|---|-----------|----------------|-------------|------------------|---------------|----------------|
| 1 | ID | Company | Area | OrderDate | Amount | Phone |
| 2 | 10248 | Shantai | North | 2012-07-04 | 428 | (030) 26471510 |
| 3 | 10249 | Dongdiwar | East | 2012-07-05 | 1842 | (0251) 1031259 |
| 4 | 10250 | Shiyi | North | 2012-07-08 | 1523.5 | (0211) 5550091 |
| 5 | 10251 | Qiangu | East | 2012-07-08 | 624.95 | (071) 8325486 |
| 6 | 10252 | Fuxing | West | 2012-07-09 | 3559.5 | (030) 23672220 |
| 7 | 10253 | Shiyi | North | 2012-07-10 | 1428 | (0211) 5550091 |
| 8 | 10254 | Haotian | Center | 2012-07-11 | 545.4 | (030) 30076545 |
| 9 | 10255 | Yongda | North | 2012-07-12 | 2450 | (089) 7034214 |

2.1 Export data only

2.1.2 Data addition

| | A |
|---|---|
| 1 | <code>=file("aday.txt":"UTF-8").import@t()</code> |
| 2 | <code>=file("orders.xlsx").xlsexport(A1)</code> |

If the excel file already exists, the exported data will be appended to the original file. In this case, you do not need to use the @t option.

2.1 Export data only

2.1.3 Export to different sheets

| | A |
|---|--|
| 1 | =file("orders.txt":"UTF-8").import@t() |
| 2 | =A1.select(Company=="Shantai") |
| 3 | =file("orders.xlsx").xlsxexport@t(A2,ID,Company,OrderDate:Date,Amount:Money;"Shantai") |

A2 filters the sequence table A1. In A3, A2 is exported to orders.xlsx. Only four fields, ID, company, OrderDate and amount, are exported, and OrderDate is renamed date, amount is renamed money, and data is exported to a new sheet named Shantai.

The exported Excel file:

| | A | B | C | D |
|---|-----------|----------------|-------------|--------------|
| 1 | ID | Company | Date | Money |
| 2 | 10248 | Shantai | 2012-07-04 | 428 |
| 3 | 10274 | Shantai | 2012-08-06 | 529 |
| 4 | 10295 | Shantai | 2012-09-02 | 120 |
| 5 | | | | |

2.2 Export large amount of data

What if there is a large amount of data?

Using cursor to read data one by one will not read all data into memory.

When exporting with a cursor, you need to add the @s function option, so that when exporting, it will be exported as a stream, and the resulting excel file will not be saved in memory.

| | A |
|---|--------------------------------------|
| 1 | =file("big.txt":"UTF-8").cursor@t() |
| 2 | =file("big.xlsx").xlsexport@st(A1) |

The exported Excel file:

| | A | B | C | D | E |
|--------|-------|------------|--------|------------|---------|
| 1 | ID | Company | Area | OrderDate | Amount |
| 123658 | 10248 | Shantai | North | 2012-07-04 | 428 |
| 123659 | 10249 | Dongdiwang | East | 2012-07-05 | 1842 |
| 123660 | 10250 | Shiyi | North | 2012-07-08 | 123.49 |
| 123661 | 10251 | Qianggu | East | 2012-07-08 | 624.9 |
| 123662 | 10252 | Fuxing | West | 2012-07-09 | 3059.49 |
| 123663 | 10253 | Shiyi | North | 2012-07-10 | 1428 |
| 123664 | 10254 | Haotian | Center | 2012-07-11 | 545.3 |
| 123665 | | | | | |

In this example, 123663 data records are exported. This method can export hundreds of millions of records. However, a sheet of Excel file can only store 1048576 rows of data at most, so when the exported data reaches a million lines, a new sheet will be added in Excel to save.

2.3 Specify display attributes

Sometimes we want the generated excel file to be able to specify the format (such as font, color, background color, alignment, etc.). At this time, as long as the excel file template is built in advance, the format is defined, and then the data can be exported to the file.

As shown in the following figure, write the table name in the first row of the orders.xlsx file Sheet1, the field column name in the second row, and define some style attributes for the table name and each column. The middle of the first, third and fourth columns is aligned, the left of the second column is aligned, the right of the fifth column is aligned, the display format of the fourth column "yyyy-mm-dd", and the display format of the fifth column is "#,###.00".



| | A | B | C | D | E |
|---|----------------|------|------|------|------|
| 1 | Product Orders | | | | |
| 2 | col1 | col2 | col3 | col4 | col5 |
| 3 | | | | | |

The export program of esProc is the same as the previous example 2.1.1, and the export result is shown in the figure below. When exporting to an existing file, the last non empty line of the file will be used as the header, which will be overwritten. When exporting, various style attributes defined in the original file will be used (not supported in big data streaming export).

The exported Excel file:



| | A | B | C | D | E |
|---|----------------|----------------|-------------|------------------|---------------|
| 1 | Product Orders | | | | |
| 2 | ID | Company | Area | OrderDate | Amount |
| 3 | 10257 | Yuandong | East | 2012-07-16 | 1,109.00 |
| 4 | 10258 | Zhengren | East | 2012-07-17 | 1,604.00 |
| 5 | 10259 | Sanjie | West | 2012-07-18 | 100.00 |
| 6 | 10260 | Jingmi | North | 2012-07-19 | 1,461.75 |
| 7 | 10261 | Lange | South | 2012-07-19 | 440.00 |
| 8 | 10262 | Xueren | Center | 2012-07-22 | 583.20 |

2.4 Fill in data in fixed rows and columns

esProc also provides a way to read and write a cell or a block of cells specified in the excel file. You can fill in data to excel in a fixed format, such as the following excel file:

| | A | B | C | D | E | F | G | H | I | J | K | L | |
|----|-------------------------------------|----------------|---------------|-------------------------------|--------------|---------------------------|---------------------------------|---------------------|--------------------|------------------------|--------------------|-------|--|
| 1 | General Information of Fund Company | | | | | | | | | | | | |
| 2 | Company | | | | | | | Year | | Season | | | |
| 3 | Net assets | | | | Total assets | | | Total assets(share) | | | | | |
| 4 | Inherent capital investment | Deposit | National debt | Closed-end funds | | Open-ended Funds | | Buy-back securities | Negotiable deposit | Policy financial bonds | Central Bank Bills | Other | |
| 5 | | | | Total share | Our share | Total share | Our share | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | Employee Holding Fund | Investors | Total share | Not our company manages funds | | Our company manages funds | | | | | | | |
| 8 | | | | Investors | Total share | Investors | Total share | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | Employee turnover | Total employee | | New employee of this season | | | Leaving employee of this season | | | | | | |
| 11 | | | | | | | | | | | | | |

Excel effect after export:

| | A | B | C | D | E | F | G | H | I | J | K | L | |
|----|-------------------------------------|-----------------------|---------------|-------------------------------|--------------|---------------------------|---------------------------------|---------------------|--------------------|------------------------|--------------------|-------|--|
| 1 | General Information of Fund Company | | | | | | | | | | | | |
| 2 | Company | Mengniu funds company | | | | | | Year | 2012 | Season | 3 | | |
| 3 | Net assets | 58.2 | | | Total assets | | | 364 | | Total assets(share) | | 300 | |
| 4 | Inherent capital investment | Deposit | National debt | Closed-end funds | | Open-ended Funds | | Buy-back securities | Negotiable deposit | Policy financial bonds | Central Bank Bills | Other | |
| 5 | | | | Total share | Our share | Total share | Our share | | | | | | |
| 6 | | 8.5 | 50 | 200 | 100 | 400 | 200 | 182.6 | 76.3 | 43.7 | 28.5 | 16.4 | |
| 7 | Employee Holding Fund | Investors | Total share | Not our company manages funds | | Our company manages funds | | | | | | | |
| 8 | | | | Investors | Total share | Investors | Total share | | | | | | |
| 9 | | 120 | 1.07 | 30 | 0.27 | 90 | 0.8 | | | | | | |
| 10 | Employee turnover | Total employee | | New employee of this season | | | Leaving employee of this season | | | | | | |
| 11 | | 154 | | 6 | | | 4 | | | | | | |

2.4 Fill in data in fixed rows and columns

| | A | B | C | D | E | F |
|----|--|------|------------------------|---|------------------------|-----|
| 1 | Mengniu funds company | 2012 | 3 | 58.2 | 364 | 300 |
| 2 | 8.5 | 50 | 200 | 100 | 400 | 200 |
| 3 | 182.6 | 76.3 | 43.7 | 28.5 | 16.4 | |
| 4 | 120 | 1.07 | 30 | 0.27 | 90 | 0.8 |
| 5 | 154 | 6 | 4 | | | |
| 6 | =file("result.xlsx") | | =A6.xlsopen() | | | |
| 7 | =C6.xlscell("B2",1;A1) | | =C6.xlscell("J2",1;B1) | | =C6.xlscell("L2",1;C1) | |
| 8 | =C6.xlscell("B3",1;D1) | | =C6.xlscell("G3",1;E1) | | =C6.xlscell("K3",1;F1) | |
| 9 | =C6.xlscell("B6",1;[A2:F2].concat("\t")) | | | =C6.xlscell("H6",1;[A3:E3].concat("\t")) | | |
| 10 | =C6.xlscell("B9",1;[A4:F4].concat("\t")) | | | =C6.xlscell("B11",1;[A5:C5].concat("\t")) | | |
| 11 | =A6.xlsxwrite(C6) | | | | | |

It is assumed that the data to be filled in has been calculated (in the first 5 rows). The first six cells to be filled in the sample table are all independent, so only one cell can be filled in at a time. The sixth row is cells that can be filled in consecutively. At this time, the data to be filled in is spelled into a string separated by \t, which can be filled in to the same row in order. After filling in all the data, write the excel object opened by C6 back to the result.xlsx file.