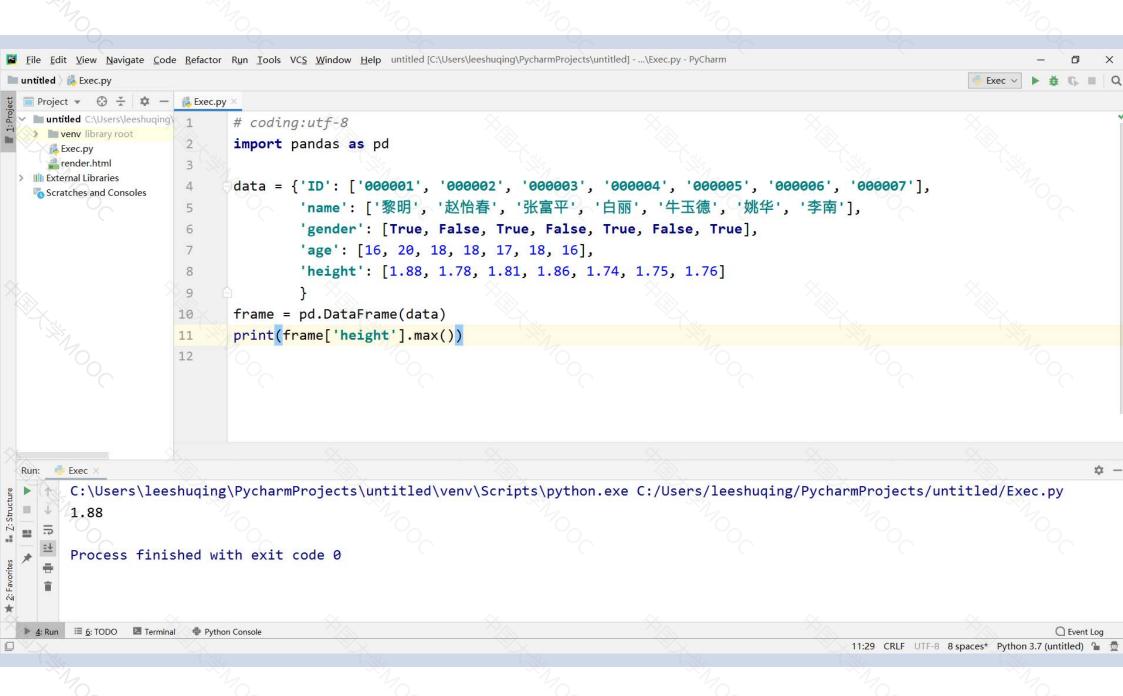
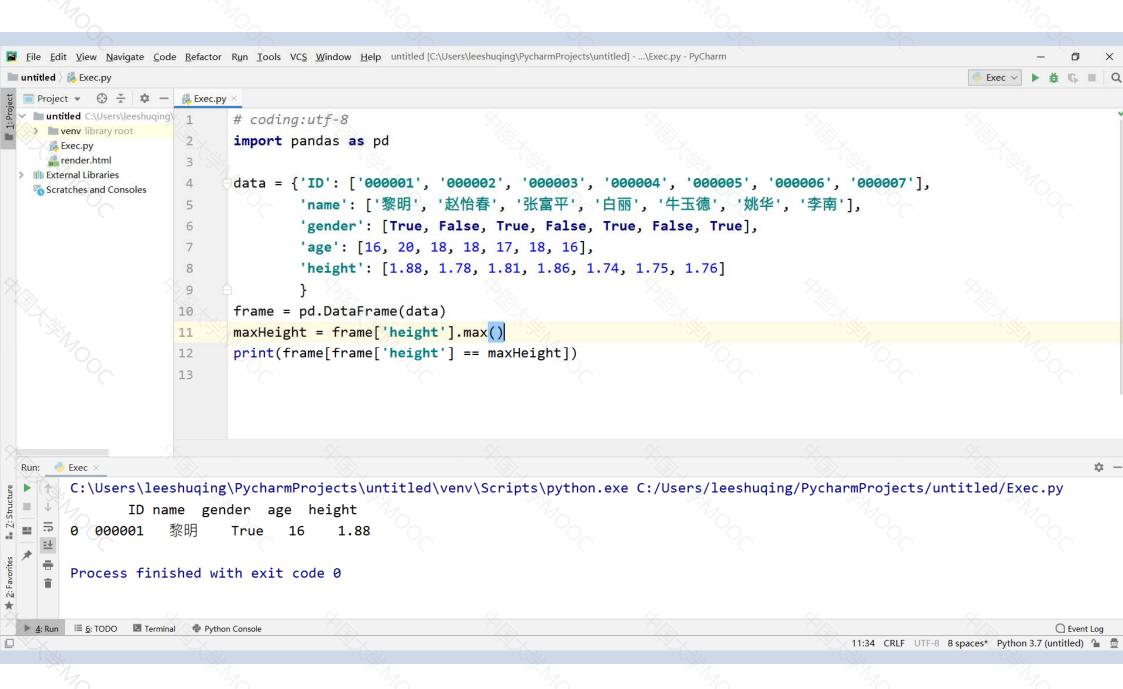
Python大数据分析

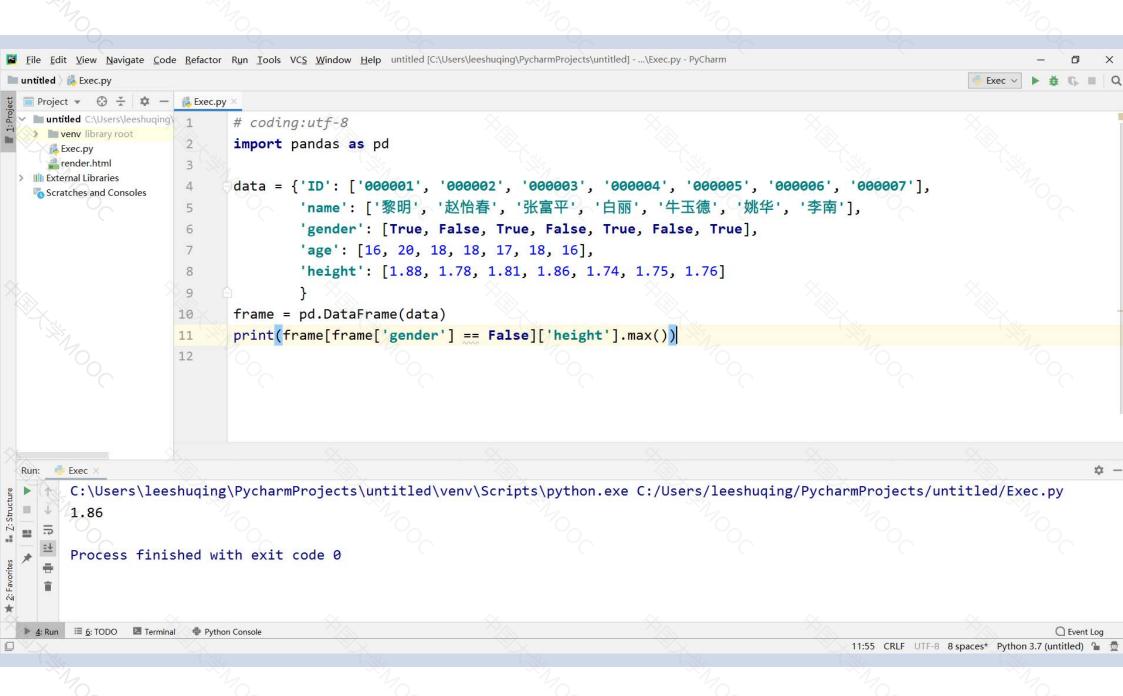
八、子查询

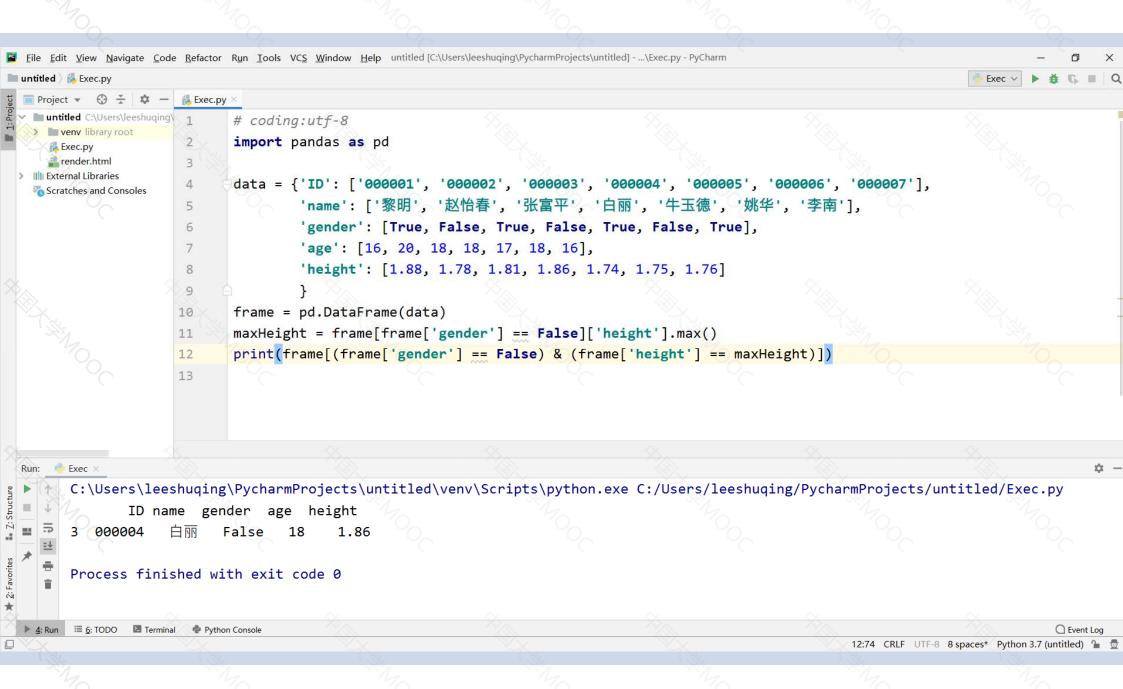
查询最高身高的学生姓名 查询学生姓名 查询最高身高

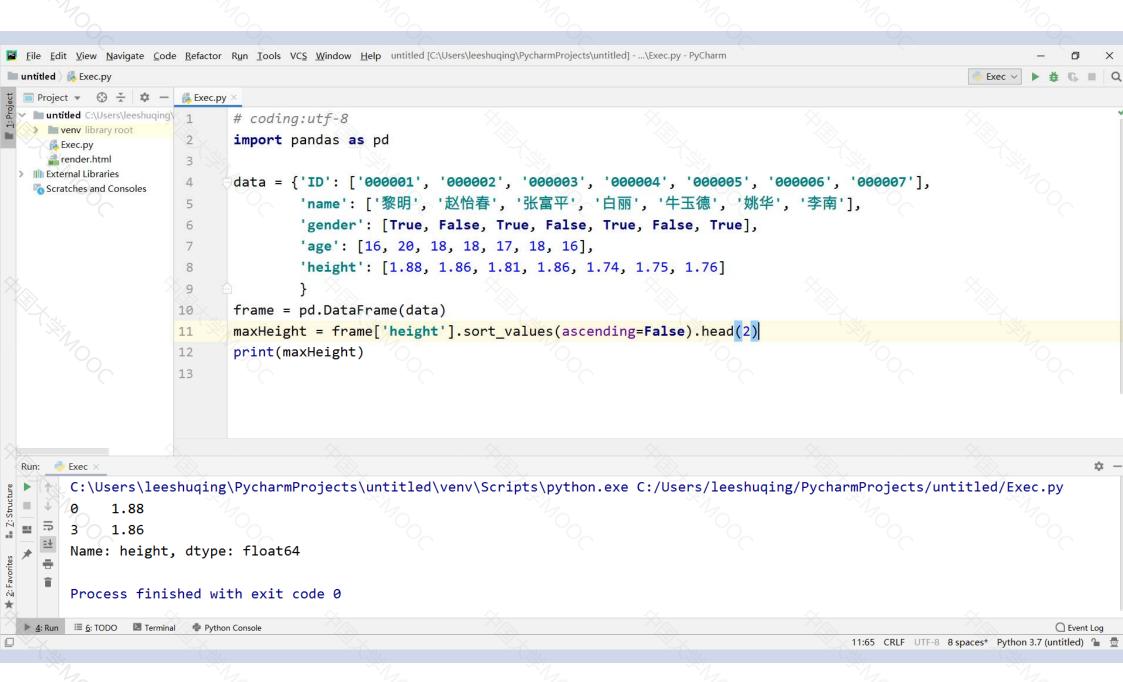


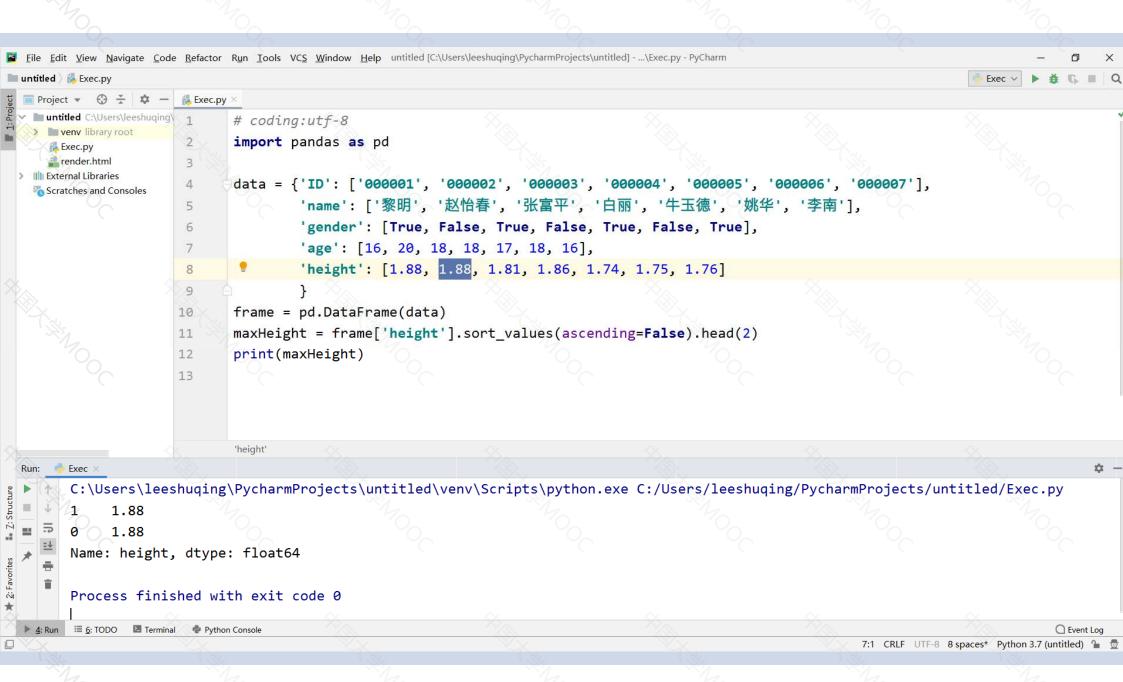


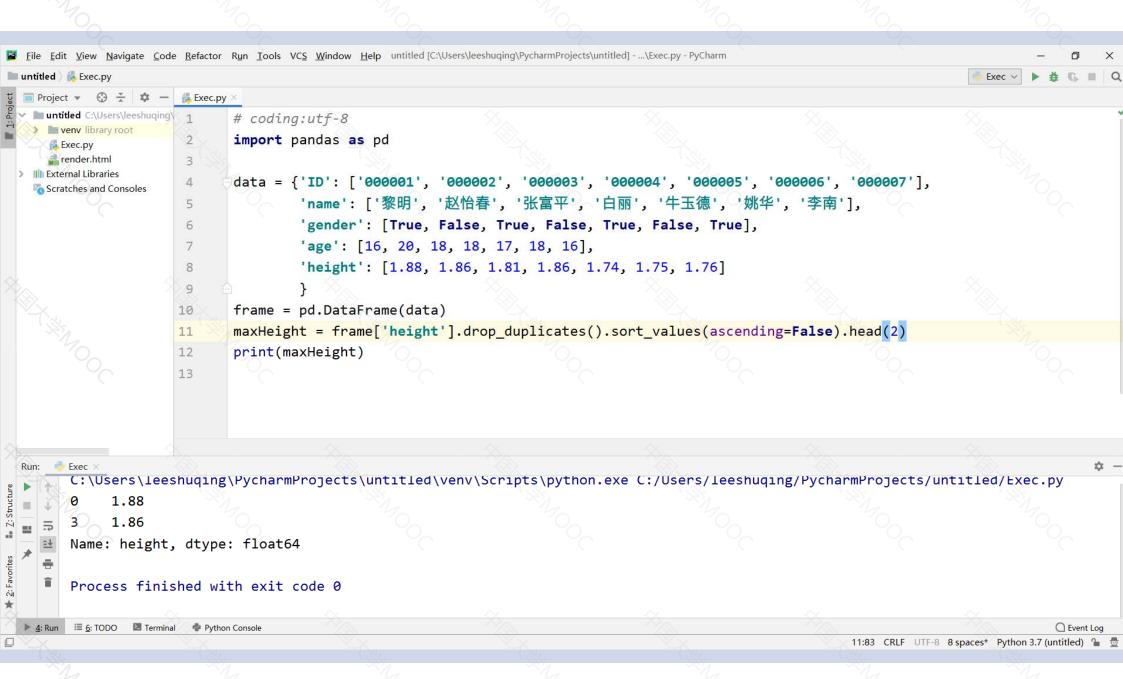


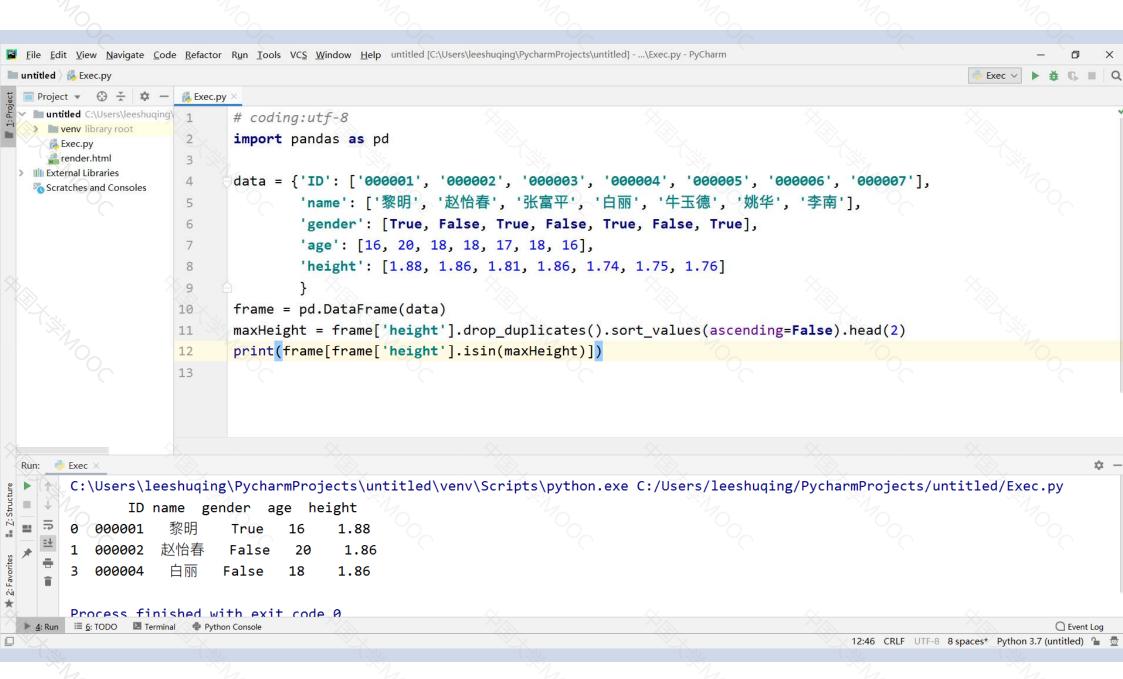














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untitled \(\) (\begin{align*}{c} \begin{align*}{c} \begin{align*}{c} \end{align*} Exec.py
  ■ Project ▼ ① ★ □ Æ Exec.py ×
   untitled C:\Users\leeshuqing\ 3
   > wenv library root
                                 data1 = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
      Exec.py
                                            'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
                         5
      arender.html
   III External Libraries
                                            'gender': [True, False, True, False, True, False, True],
   Scratches and Consoles
                                            'age': [16, 20, 18, 18, 17, 18, 16],
                                            'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
                          8
                         9
                        10
                                 students = pd.DataFrame(data1)
                                 data2 = {
                        11
                                      'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005',
                        12
                                               '000006'],
                        13
                                     'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
                        14
                        15
                                     'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
                        16
                                scores = pd.DataFrame(data2)
                        17
                                print(students[students['name'] == '黎明']['ID'])
                        18
                        19
         C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
               000001
         Name: ID, dtype: object

    ▼ Terminal

                          Python Console
                                                                                                                           18:48 CRLF UTF-8 8 spaces* Python 3.7 (untitled) 🤚 💆
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📱 File Edit View Navigate Code Refactor Run Jools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled \(\) (\begin{align*}{c} \begin{align*}{c} \begin{align*}{c} \end{align*} Exec.py
  Project ▼ ⊕ 

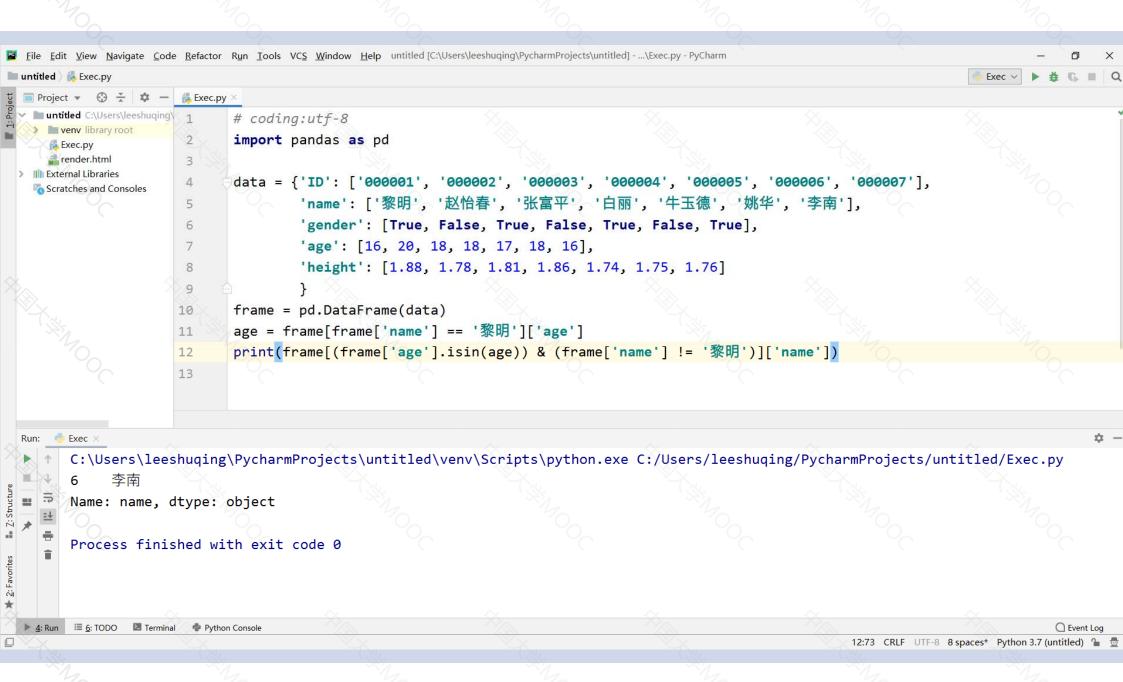
Exec.py ×
   untitled C:\Users\leeshuqing\ 3
   > wenv library root
                               data1 = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
     Exec.py
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                        5
     arender.html
  III External Libraries
                                          'gender': [True, False, True, False, True, False, True],
                         6
   Scratches and Consoles
                                          'age': [16, 20, 18, 18, 17, 18, 16],
                                          'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
                         8
                        9
                       10
                               students = pd.DataFrame(data1)
                               data2 = {
                       11
                                    'SID': ['000001', '000001', '000002', '000003', '000003', '000004', '000004', '000005',
                       12
                                             '000006'],
                       13
                                    'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
                       14
                       15
                                    'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
                       16
                               scores = pd.DataFrame(data2)
                       17
                               sid = students[students['name'] == '黎明']['ID']
                       18
                               print(scores[scores['SID'] == sid[0]])
                       19
                       20
        C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
               SID CID score
           000001
                     A01
                              56
           000001 A02
                              78
         Python Console
                                                                                                                      19:39 CRLF UTF-8 8 spaces* Python 3.7 (untitled) 🤚 💆
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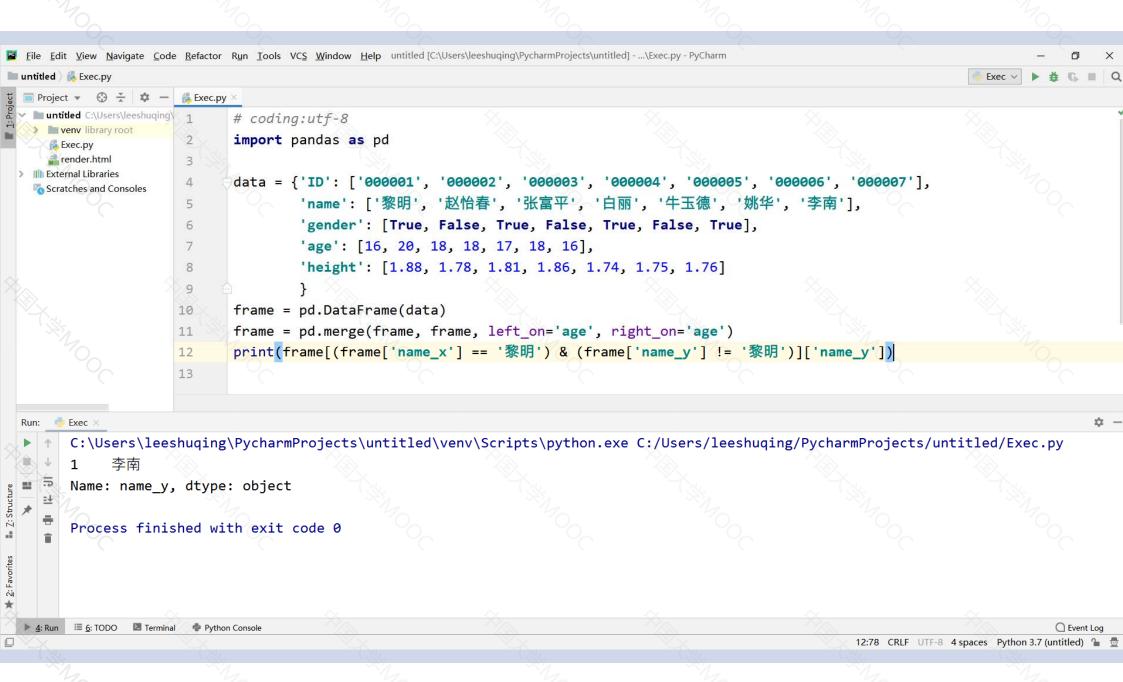
```
📱 File Edit View Navigate Code Refactor Run Jools VCS Window Help untitled [C:\Users\leeshuqing\PycharmProjects\untitled] - ...\Exec.py - PyCharm
untitled \(\) (\begin{align*}{c} \begin{align*}{c} \begin{align*}{c} \end{align*} Exec.py
  Project ▼ ⊕ 

Exec.py ×
   untitled C:\Users\leeshuqing\ 3
   > wenv library root
                                data1 = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
      Exec.py
                                           'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
                         5
     arender.html
   III External Libraries
                                           'gender': [True, False, True, False, True, False, True],
                         6
   Scratches and Consoles
                                           'age': [16, 20, 18, 18, 17, 18, 16],
                                           'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
                         8
                         9
                        10
                                students = pd.DataFrame(data1)
                                data2 = {
                        11
                                     'SID': ['000001', '000001', '000002', '000003', '000003', '000004', '000004', '000005',
                        12
                                              '000006'],
                        13
                                     'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
                        14
                        15
                                     'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
                        16
                                scores = pd.DataFrame(data2)
                        17
                                sid = students[students['name'] == '黎明']['ID']
                        18
                                print(scores[scores['SID'].isin(sid)])
                        19
                        20
        C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
               SID CID score
            000001
                     A01
                               56
            000001 A02
                               78
         ≣ 6: TODO     Terminal
                          Python Console
                                                                                                                         19:39 CRLF UTF-8 8 spaces* Python 3.7 (untitled) 🤚 💆
```

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     Project ▼ ⊕ 

Exec.py ×
        untitled C:\Users\leeshuqing\ 3
        > wenv library root
                                                                          data1 = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
             Exec.py
                                                                                                  'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
                                                          5
             arender.html
      III External Libraries
                                                                                                  'gender': [True, False, True, False, True, False, True],
                                                           6
        Scratches and Consoles
                                                                                                  'age': [16, 20, 18, 18, 17, 18, 16],
                                                                                                  'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
                                                          8
                                                          9
                                                        10
                                                                          students = pd.DataFrame(data1)
                                                                          data2 = {
                                                        11
                                                                                     'SID': ['000001', '000001', '000002', '000003', '000003', '000003', '000004', '000004', '000005',
                                                        12
                                                                                                           '000006'],
                                                       13
                                                                                     'CID': ['A01', 'A02', 'A01', 'A01', 'A02', 'B01', 'A01', 'A03', 'B01', 'A02', 'B01'],
                                                        14
                                                        15
                                                                                     'score': [56, 78, 90, 74, 86, 89, 67, 80, 77, 76, 90]
                                                       16
                                                                         scores = pd.DataFrame(data2)
                                                       17
                                                                         frame = pd.merge(students, scores, left_on='ID', right_on='SID')
                                                       18
                                                                         print(frame[frame['name'] == '黎明'])
                                                       19
                                                        20
                    C:\Users\leeshuqing\PycharmProjects\untitled\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/untitled/Exec.py
                                       ID name gender age height
                                                                                                                                SID CID score
                                                     黎明
                            000001
                                                                        True
                                                                                           16
                                                                                                            1.88
                                                                                                                            000001 A01
                                                                                                                                                                        56
                                                     黎明
                            000001
                                                                        True
                                                                                           16
                                                                                                            1.88
                                                                                                                            000001 A02
                                                                                                                                                                       78
                     18:65 CRLF UTF-8 8 spaces* Python 3.7 (untitled) 🦫 💆
```





一次不学多,下次再学