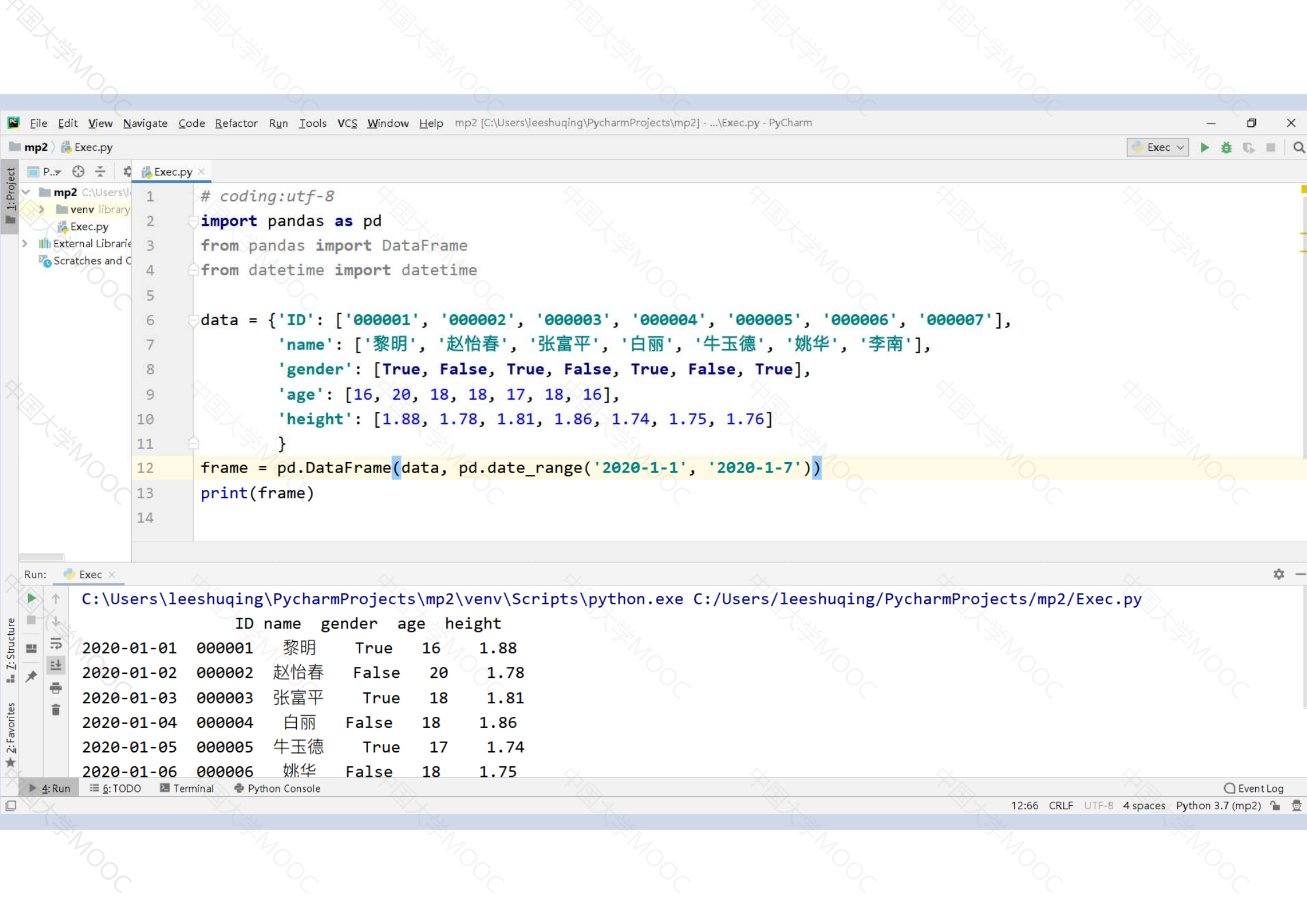
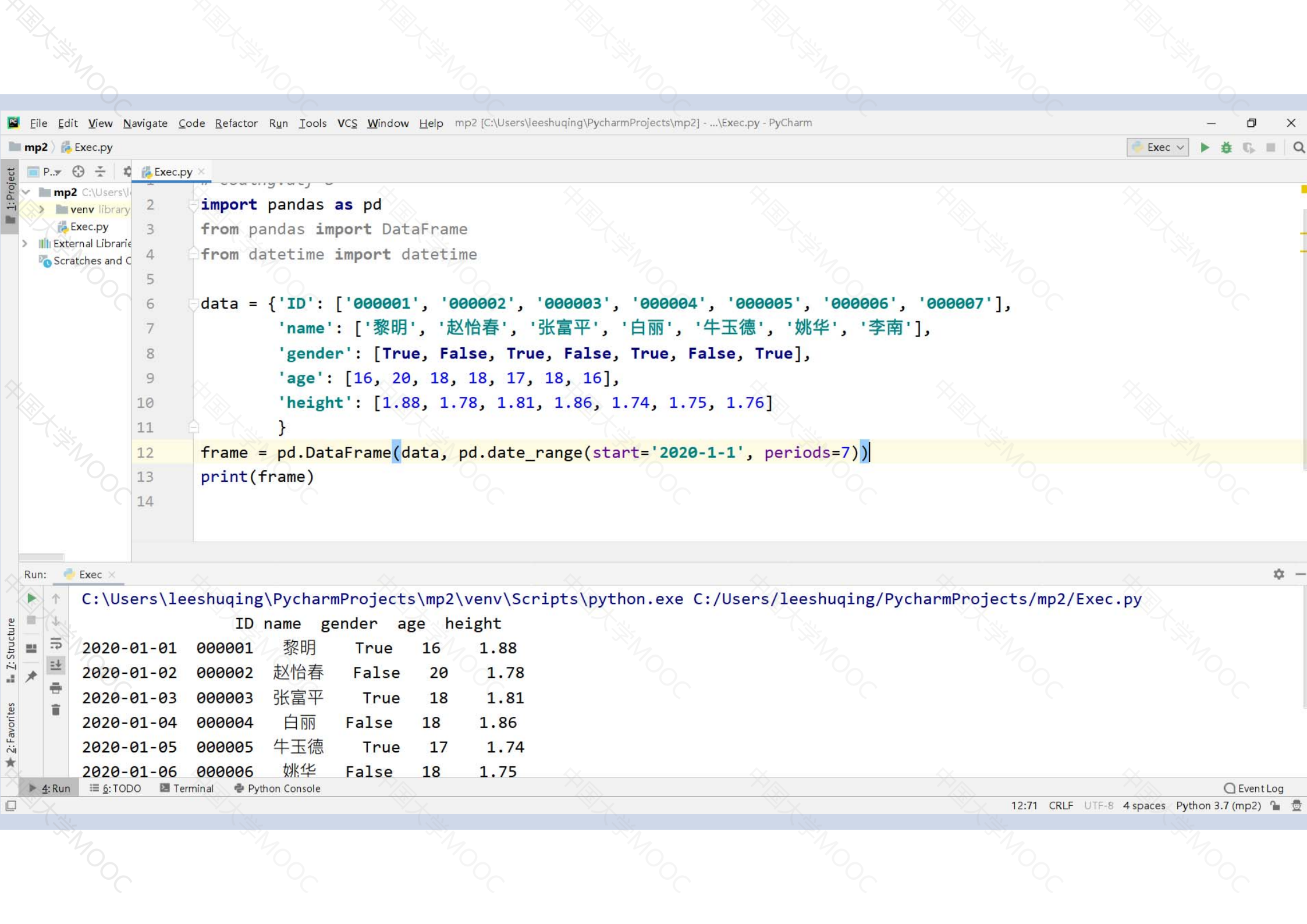


# Python大数据分析

## 三、特殊时间序列的生成

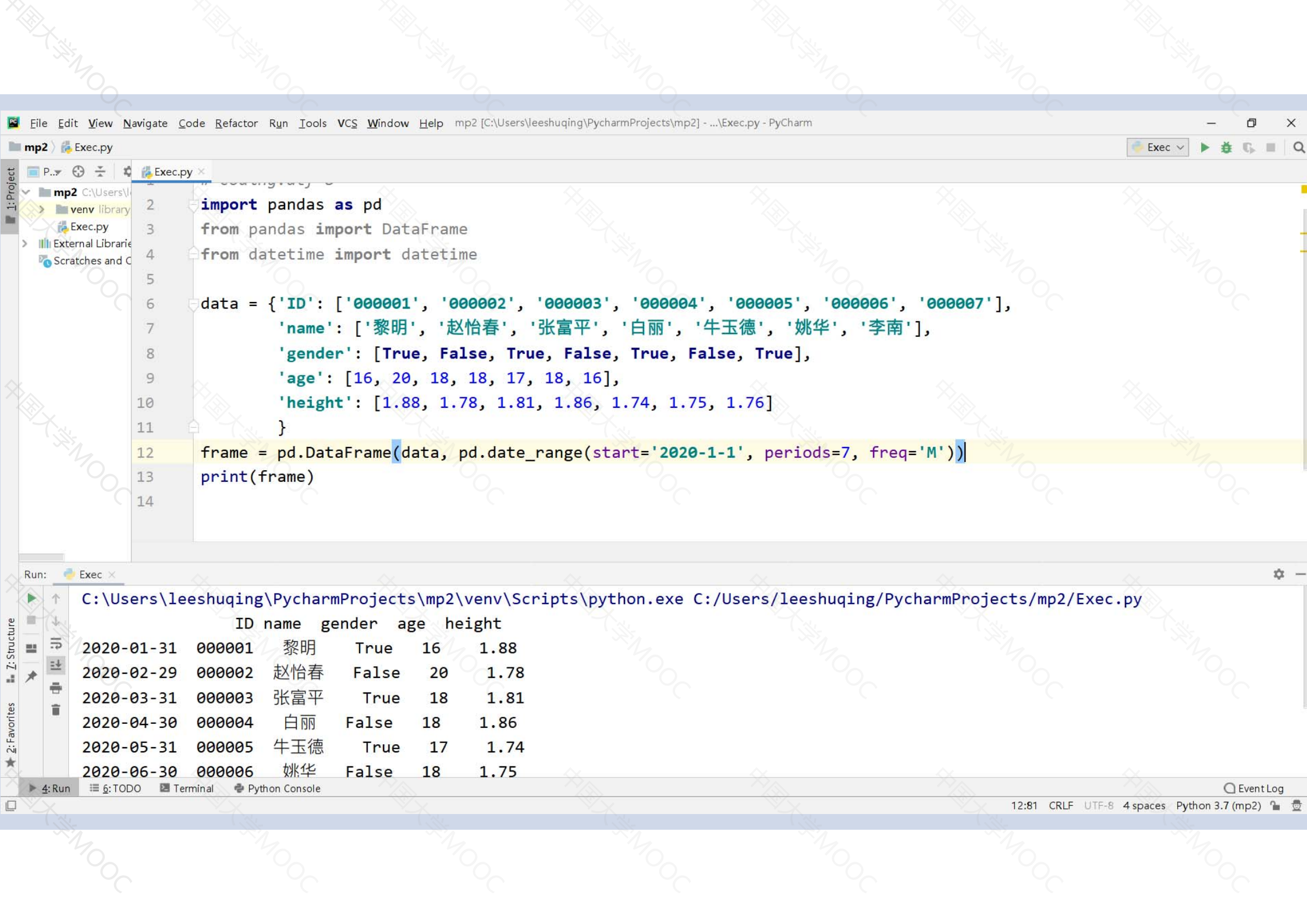




```
1 import pandas as pd
2 from pandas import DataFrame
3 from datetime import datetime
4
5
6 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
7         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
8         'gender': [True, False, True, False, True, False, True],
9         'age': [16, 20, 18, 18, 17, 18, 16],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]}
11
12 frame = pd.DataFrame(data, pd.date_range(start='2020-1-1', periods=7))
13 print(frame)
14
```

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	age	height
2020-01-01	000001	黎明	True	16	1.88
2020-01-02	000002	赵怡春	False	20	1.78
2020-01-03	000003	张富平	True	18	1.81
2020-01-04	000004	白丽	False	18	1.86
2020-01-05	000005	牛玉德	True	17	1.74
2020-01-06	000006	姚华	False	18	1.75

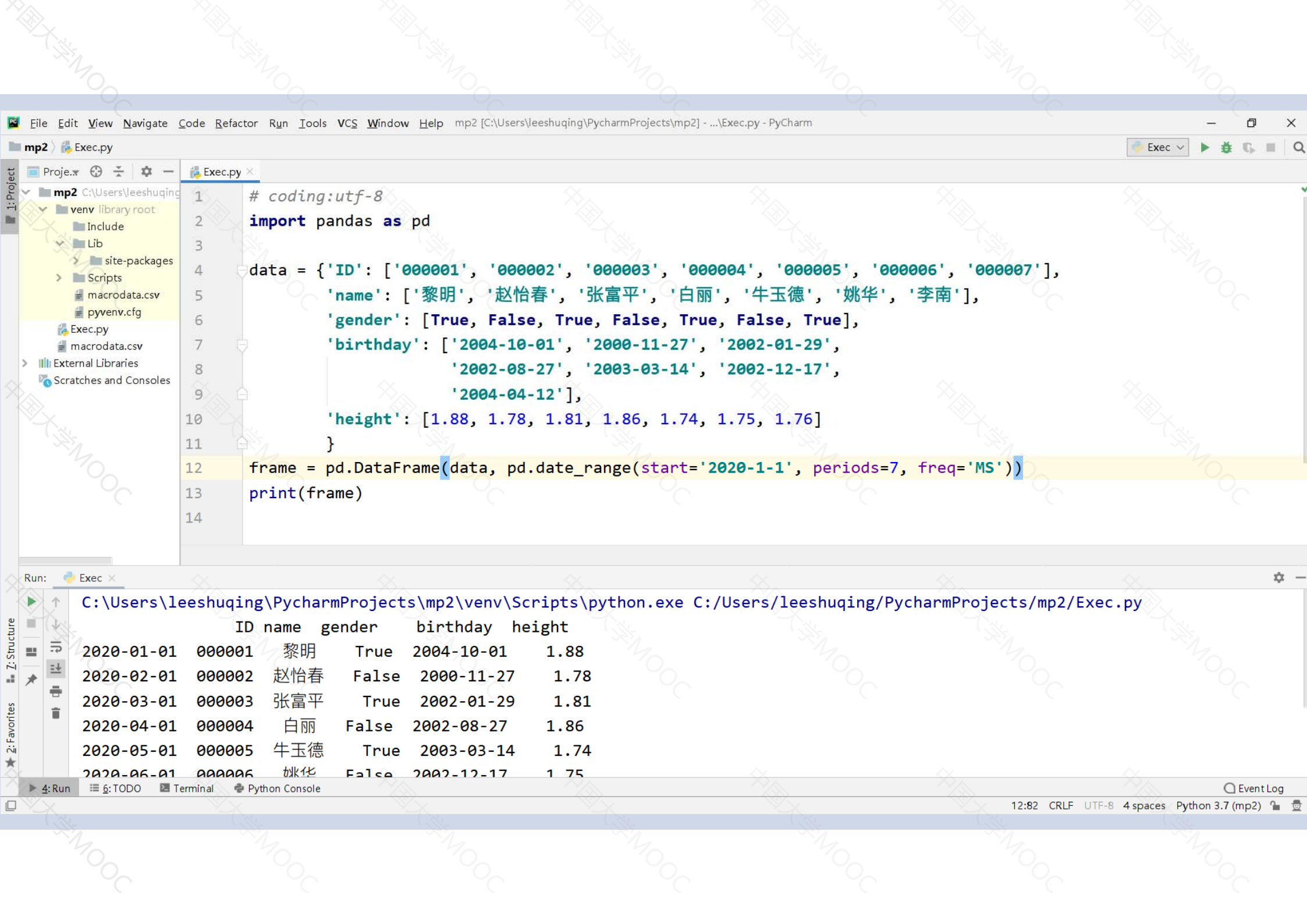


```
1 import pandas as pd
2 from pandas import DataFrame
3 from datetime import datetime
4
5
6 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
7         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
8         'gender': [True, False, True, False, True, False, True],
9         'age': [16, 20, 18, 18, 17, 18, 16],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]}
11
12 frame = pd.DataFrame(data, pd.date_range(start='2020-1-1', periods=7, freq='M'))
13 print(frame)
14
```

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	age	height
2020-01-31	000001	黎明	True	16	1.88
2020-02-29	000002	赵怡春	False	20	1.78
2020-03-31	000003	张富平	True	18	1.81
2020-04-30	000004	白丽	False	18	1.86
2020-05-31	000005	牛玉德	True	17	1.74
2020-06-30	000006	姚华	False	18	1.75





```
1 # coding:utf-8
```

```
2 import pandas as pd
```

```
3
4 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
5         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
6         'gender': [True, False, True, False, True, False, True],
7         'birthday': ['2004-10-01', '2000-11-27', '2002-01-29',
8                     '2002-08-27', '2003-03-14', '2002-12-17',
9                     '2004-04-12'],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]}
11
```

```
12 frame = pd.DataFrame(data, pd.date_range(start='2020-1-1', periods=7, freq='MS'))
```

```
13 print(frame)
14
```

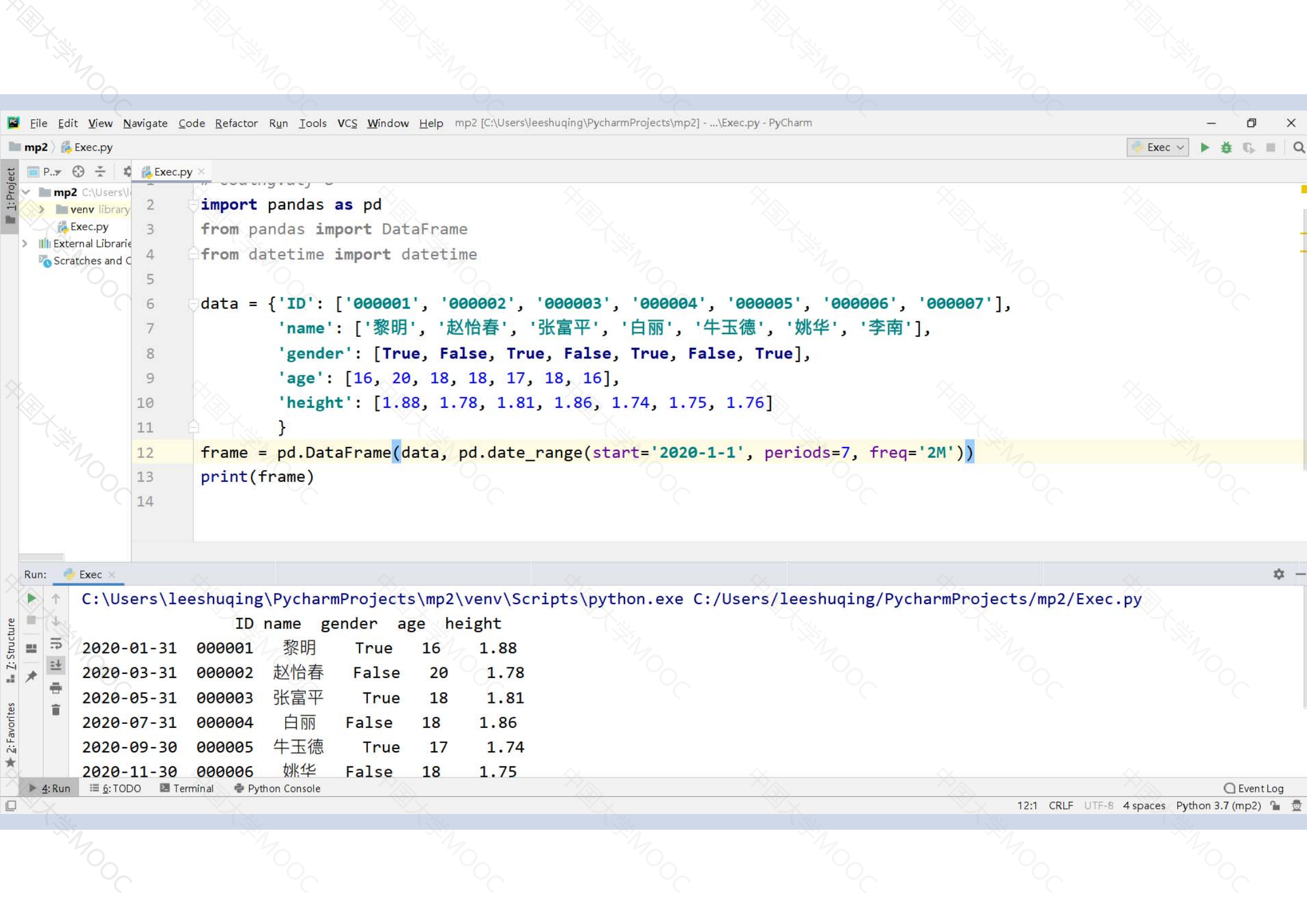
Run: Exec

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	birthday	height
2020-01-01	000001	黎明	True	2004-10-01	1.88
2020-02-01	000002	赵怡春	False	2000-11-27	1.78
2020-03-01	000003	张富平	True	2002-01-29	1.81
2020-04-01	000004	白丽	False	2002-08-27	1.86
2020-05-01	000005	牛玉德	True	2003-03-14	1.74
2020-06-01	000006	姚华	False	2002-12-17	1.75

Event Log

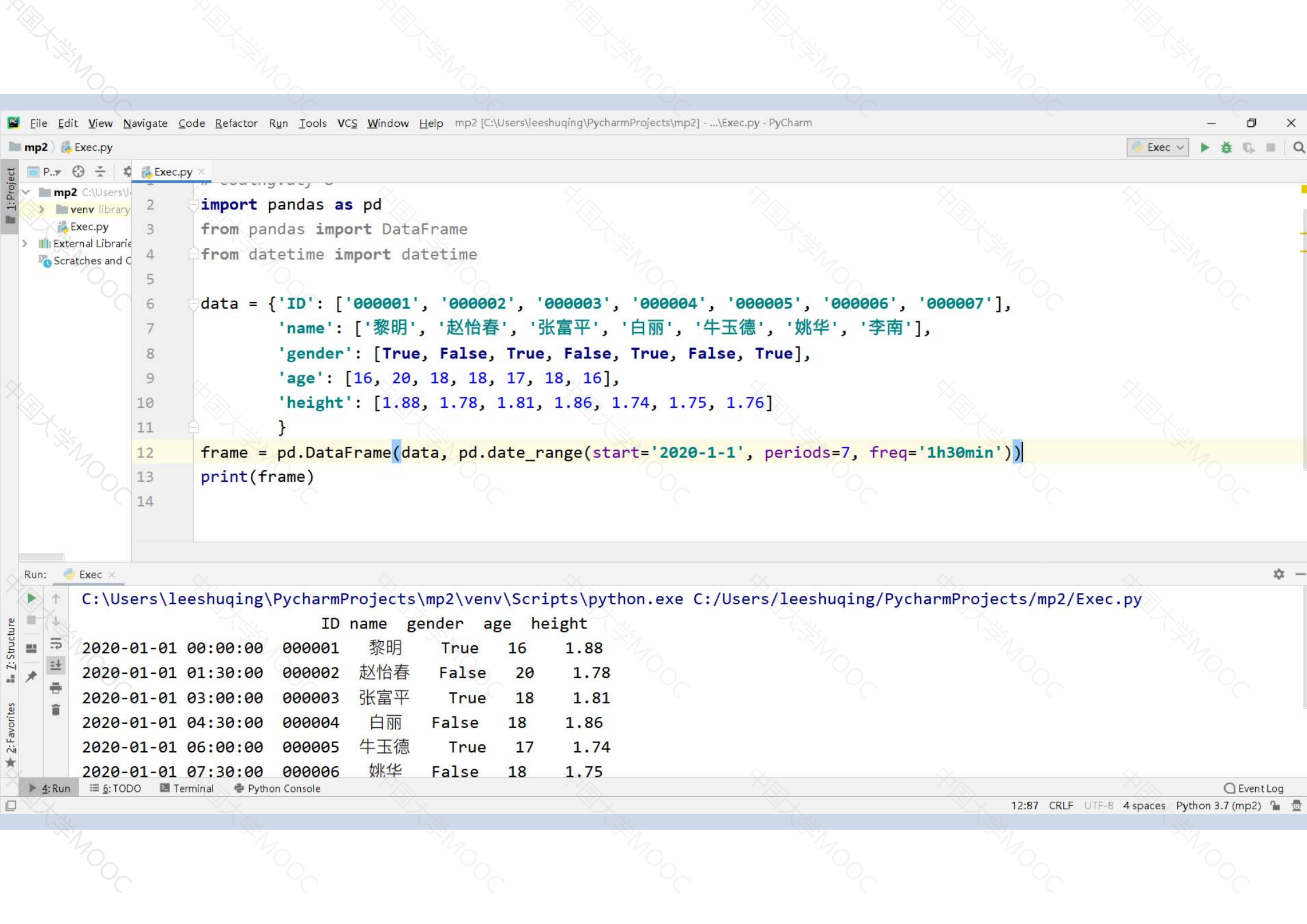
12:82 CRLF UTF-8 4 spaces Python 3.7 (mp2)



```
1 import pandas as pd
2 from pandas import DataFrame
3 from datetime import datetime
4
5
6 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
7         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
8         'gender': [True, False, True, False, True, False, True],
9         'age': [16, 20, 18, 18, 17, 18, 16],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
11        }
12 frame = pd.DataFrame(data, pd.date_range(start='2020-1-1', periods=7, freq='2M'))
13 print(frame)
14
```

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	age	height
2020-01-31	000001	黎明	True	16	1.88
2020-03-31	000002	赵怡春	False	20	1.78
2020-05-31	000003	张富平	True	18	1.81
2020-07-31	000004	白丽	False	18	1.86
2020-09-30	000005	牛玉德	True	17	1.74
2020-11-30	000006	姚华	False	18	1.75



```
1 import pandas as pd
2 from pandas import DataFrame
3 from datetime import datetime
4
5
6 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
7         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
8         'gender': [True, False, True, False, True, False, True],
9         'age': [16, 20, 18, 18, 17, 18, 16],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]}
11
12 frame = pd.DataFrame(data, pd.date_range(start='2020-1-1', periods=7, freq='1h30min'))
13 print(frame)
14
```

Run: Exec

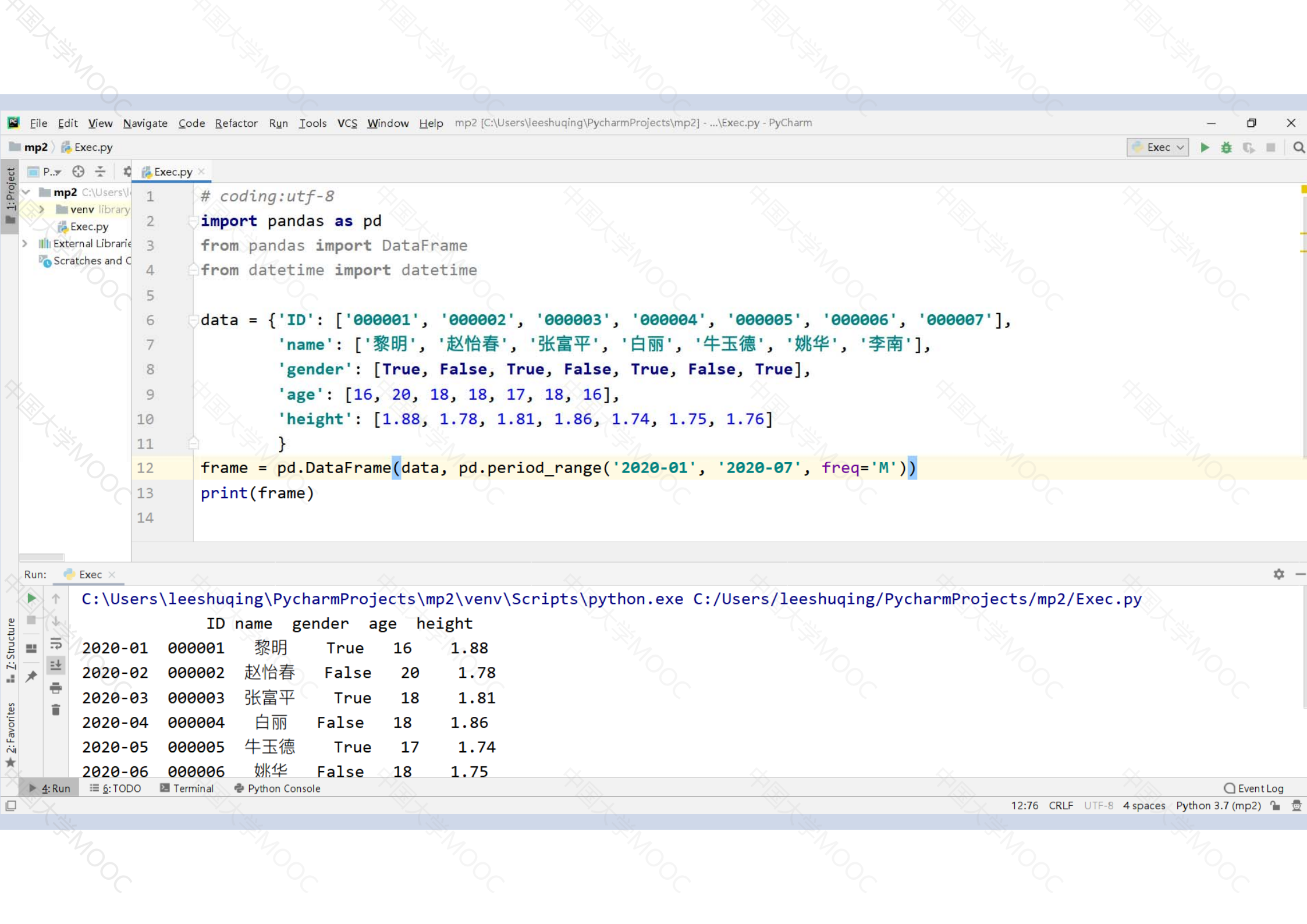
C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	age	height
2020-01-01 00:00:00	000001	黎明	True	16	1.88
2020-01-01 01:30:00	000002	赵怡春	False	20	1.78
2020-01-01 03:00:00	000003	张富平	True	18	1.81
2020-01-01 04:30:00	000004	白丽	False	18	1.86
2020-01-01 06:00:00	000005	牛玉德	True	17	1.74
2020-01-01 07:30:00	000006	姚华	False	18	1.75

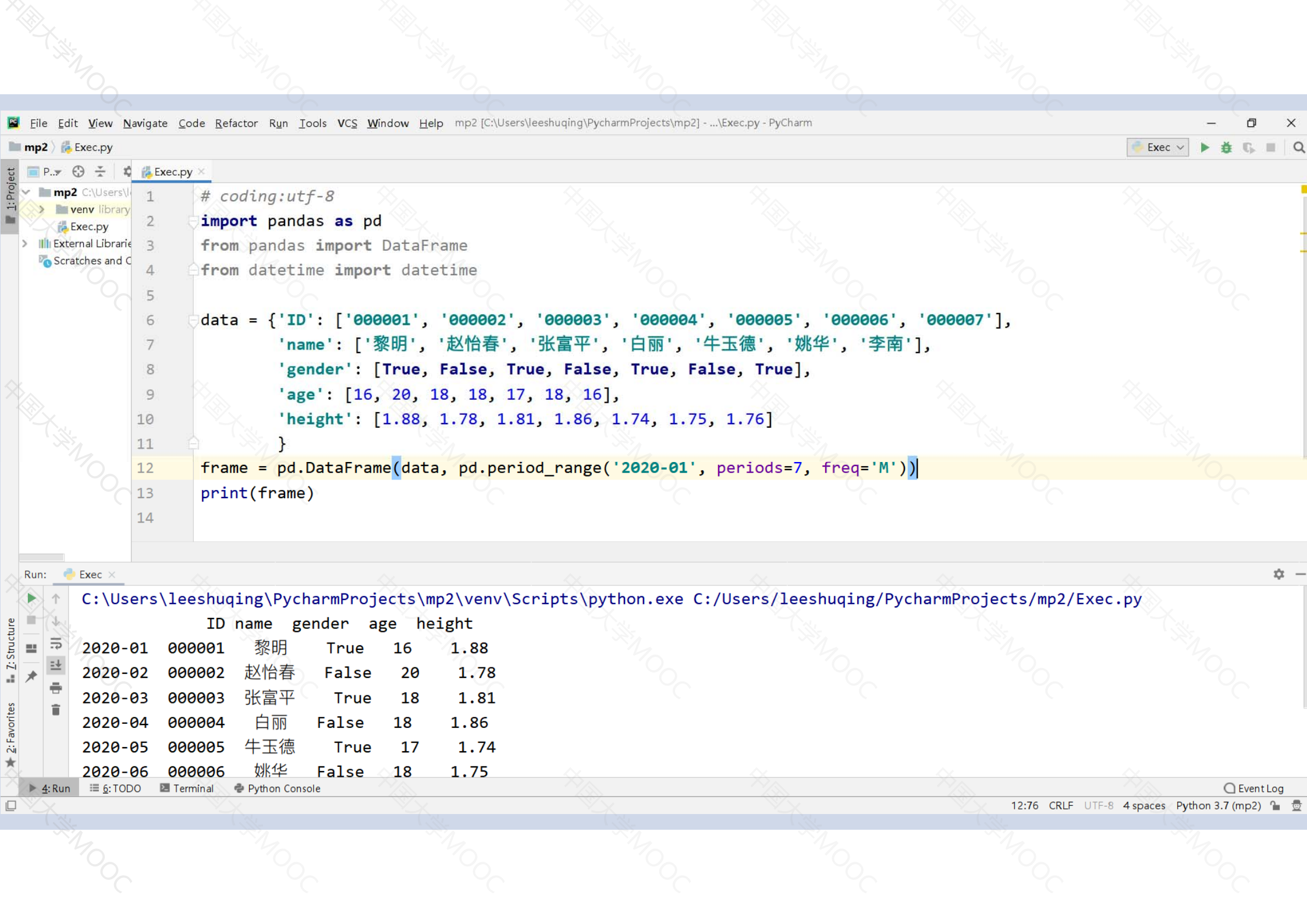
4: Run | TODO | Terminal | Python Console | Event Log

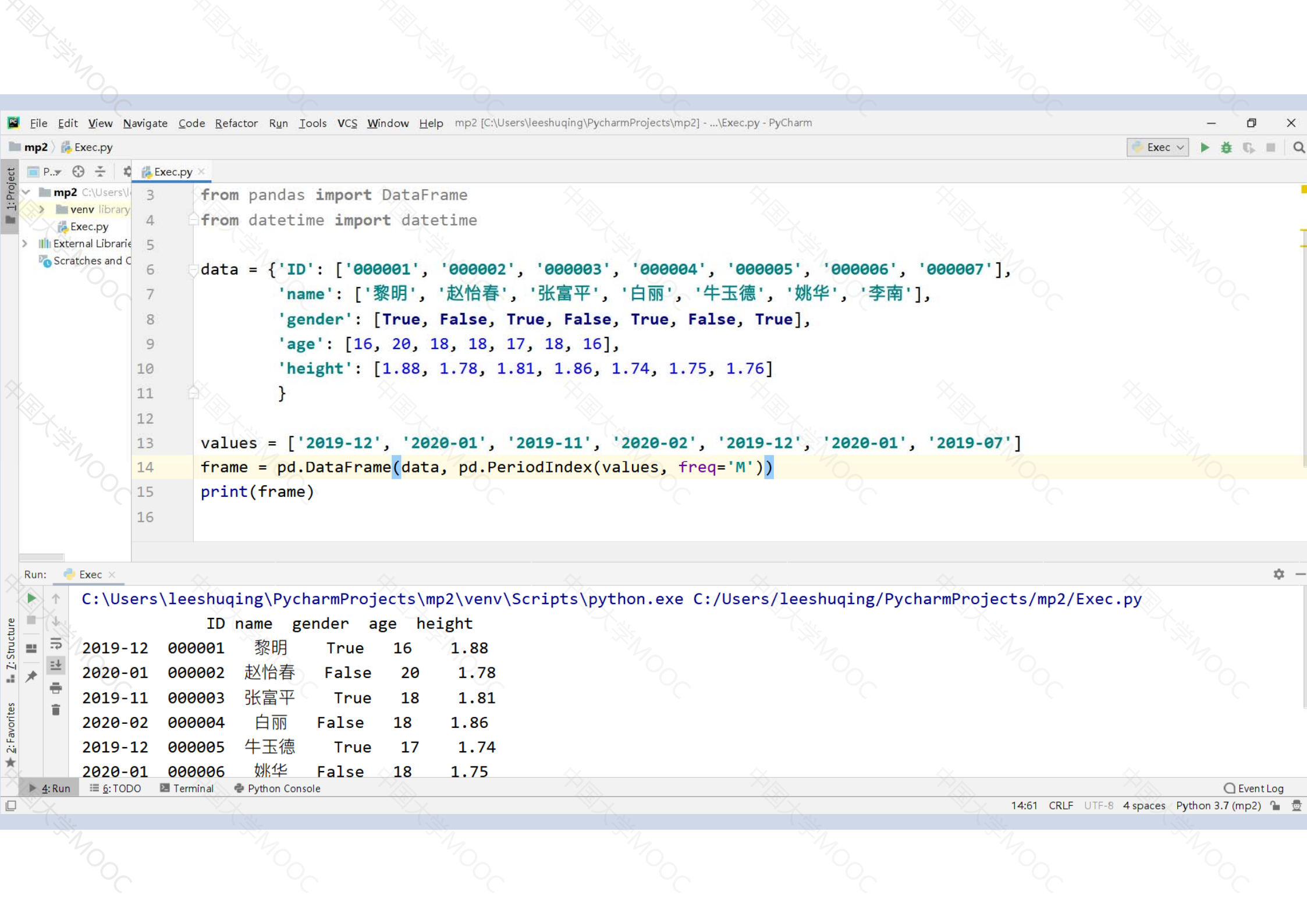
12:87 CRLF UTF-8 4 spaces Python 3.7 (mp2)

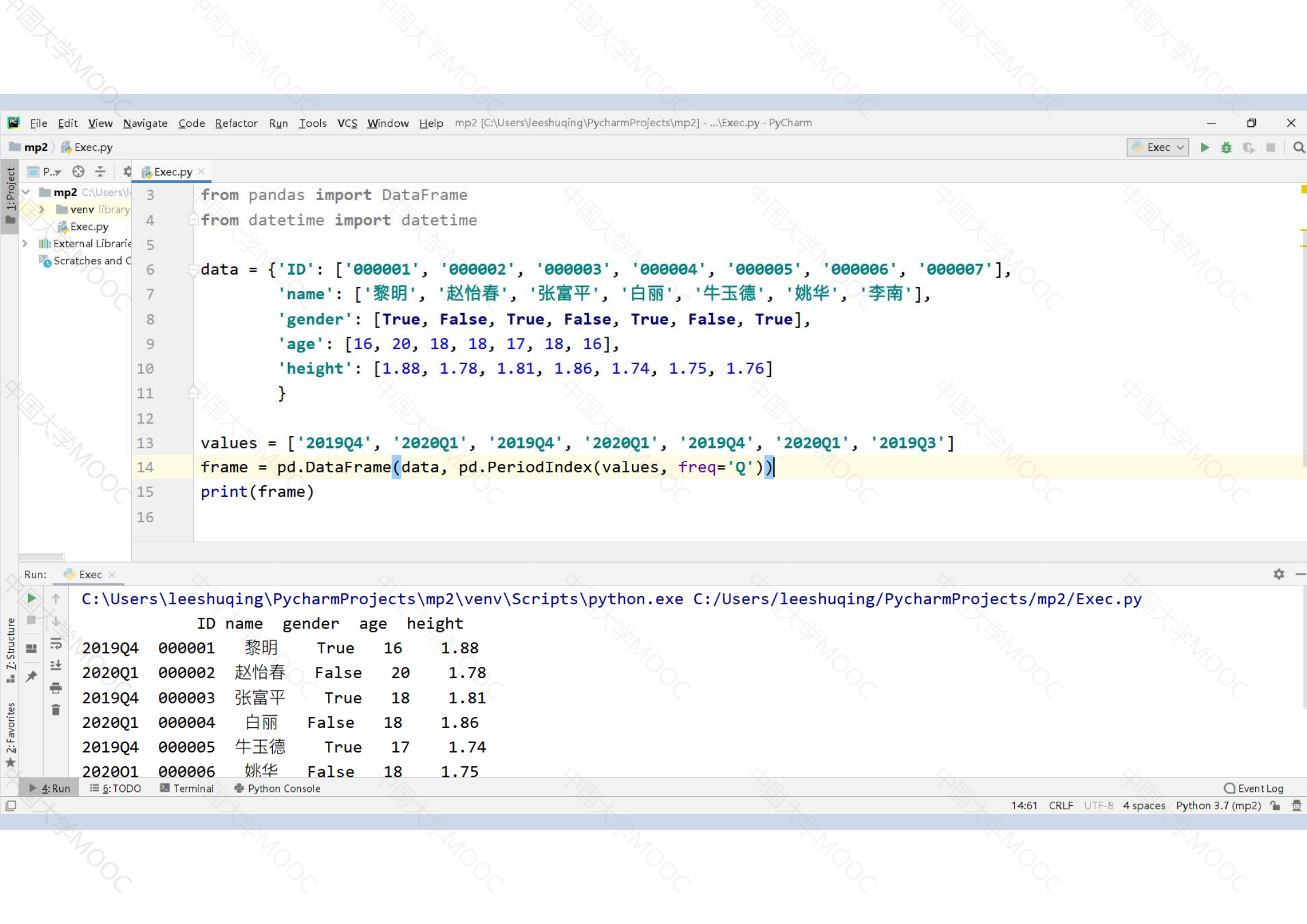


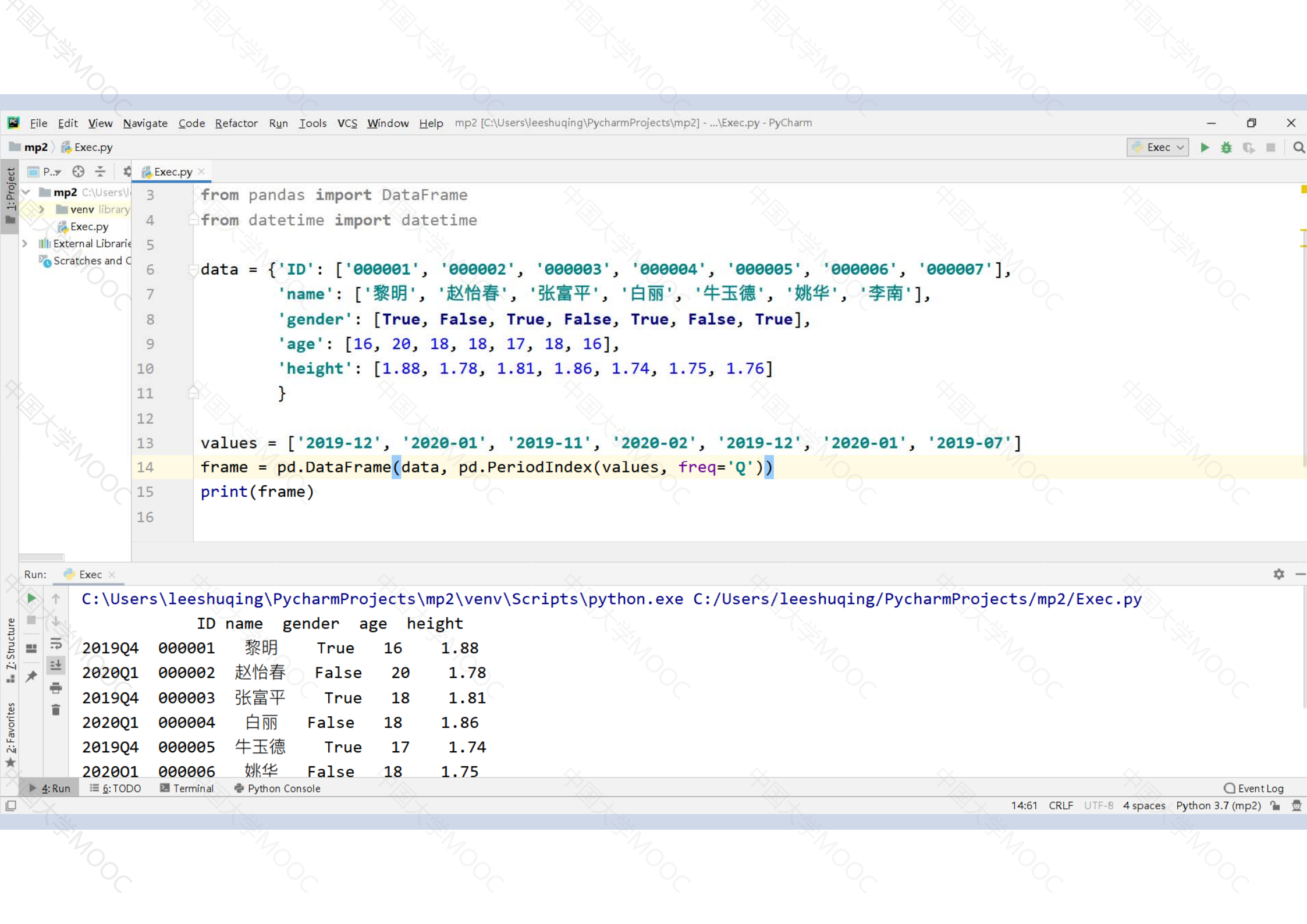










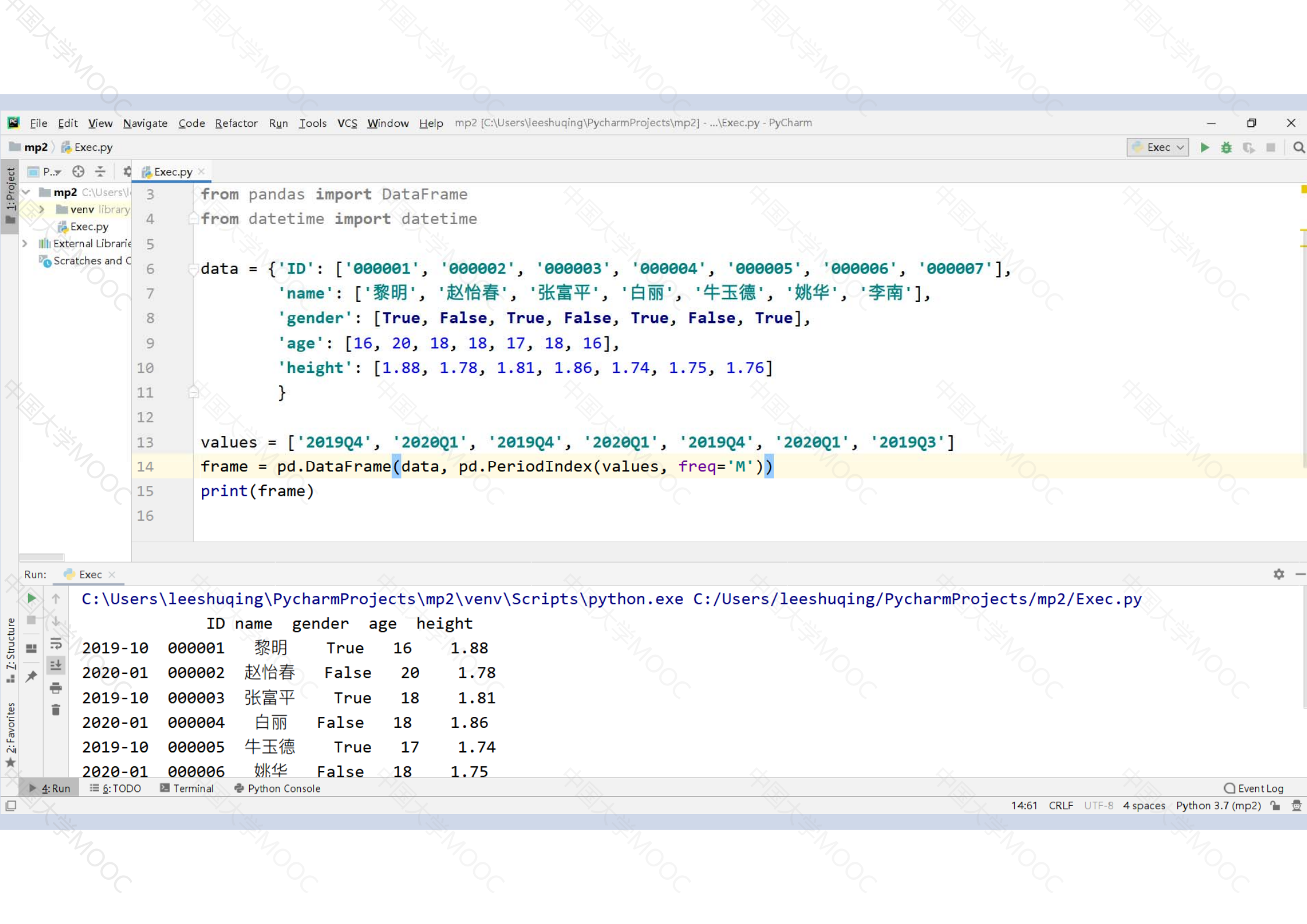


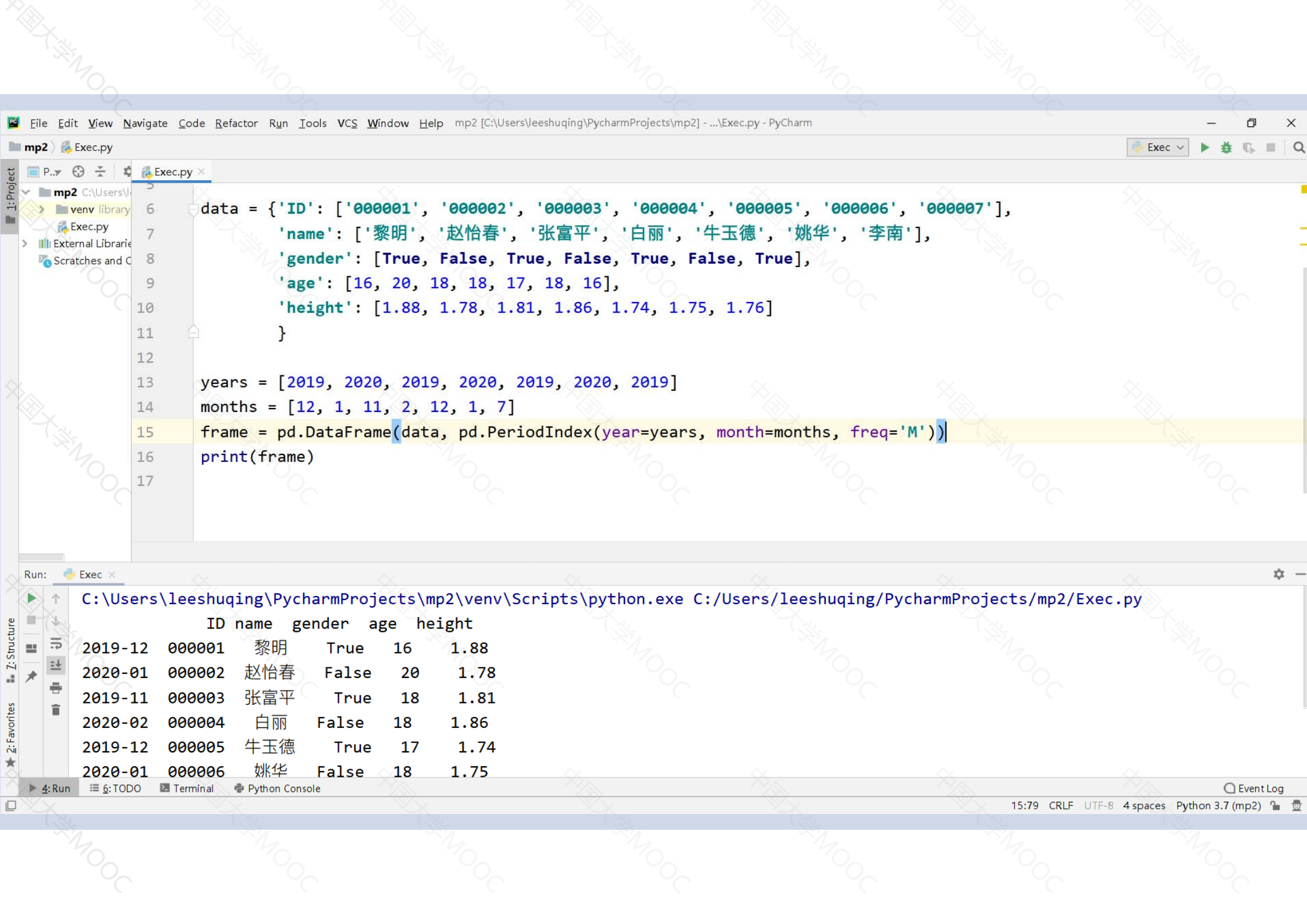
```
3 from pandas import DataFrame
4 from datetime import datetime
5
6 data = {'ID': ['000001', '000002', '000003', '000004', '000005', '000006', '000007'],
7         'name': ['黎明', '赵怡春', '张富平', '白丽', '牛玉德', '姚华', '李南'],
8         'gender': [True, False, True, False, True, False, True],
9         'age': [16, 20, 18, 18, 17, 18, 16],
10        'height': [1.88, 1.78, 1.81, 1.86, 1.74, 1.75, 1.76]
11       }
12
13 values = ['2019-12', '2020-01', '2019-11', '2020-02', '2019-12', '2020-01', '2019-07']
14 frame = pd.DataFrame(data, pd.PeriodIndex(values, freq='Q'))
15 print(frame)
16
```

C:\Users\leeshuqing\PycharmProjects\mp2\venv\Scripts\python.exe C:/Users/leeshuqing/PycharmProjects/mp2/Exec.py

	ID	name	gender	age	height
2019Q4	000001	黎明	True	16	1.88
2020Q1	000002	赵怡春	False	20	1.78
2019Q4	000003	张富平	True	18	1.81
2020Q1	000004	白丽	False	18	1.86
2019Q4	000005	牛玉德	True	17	1.74
2020Q1	000006	姚华	False	18	1.75









浪\_湖沙

TA的个人主页 &gt;

原创 14 粉丝 5 获赞 21 评论 14 访问 5万+

等级: 博客 3

周排名: 8万+

积分: 723

总排名: 11万+

勋章:

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## pandas.date\_range freq参数枚举

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Alias	Description
B	business day frequency
C	custom business day frequency
D	calendar day frequency
W	weekly frequency
M	month end frequency
SM	semi-month end frequency (15th and end of month)
BM	business month end frequency
CBM	custom business month end frequency
MS	month start frequency
SMS	semi-month start frequency (1st and 15th)
BMS	business month start frequency
CBMS	custom business month start frequency
Q	quarter end frequency
BQ	business quarter end frequency

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