

pandas 练习一答案

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1. 构建一个 DataFrame, 进行相关操作

```
[9]: import pandas as pd
data = {'name':['Zhangsan','Lisi','Wangwu','Liuliu'],'sex':
      →['male','female','female','male'],'birthday':
      →['200103','200105','200110','200108']}
```

```
[10]: df=pd.DataFrame(data)
```

```
[11]: df
```

```
[11]:
```

	name	sex	birthday
0	Zhangsan	male	200103
1	Lisi	female	200105
2	Wangwu	female	200110
3	Liuliu	male	200108

```
[12]: df['zone']=['Hunan','Jiangsu','Guangzhou','Shanghai']
```

```
[13]: df
```

```
[13]:
```

	name	sex	birthday	zone
0	Zhangsan	male	200103	Hunan
1	Lisi	female	200105	Jiangsu
2	Wangwu	female	200110	Guangzhou
3	Liuliu	male	200108	Shanghai

```
[14]: df.loc[4]=['Tom','male','200105','S.A.']
```

```
[15]: df
```

```
[15]:
```

	name	sex	birthday	zone
0	Zhangsan	male	200103	Hunan
1	Lisi	female	200105	Jiangsu
2	Wangwu	female	200110	Guangzhou
3	Liuliu	male	200108	Shanghai
4	Tom	male	200105	S.A.

```
4      Tom    male    200105      S.A.
```

```
[18]: df.loc[df['birthday']=='200105']
```

```
[18]:   name    sex birthday    zone
1  Lisi  female    200105  Jiangsu
4   Tom   male     200105    S.A.
```

2. 构建一个 Series, 进行相关操作

```
[20]: scores = pd.Series([1121,1201,956,1092,1024])
```

```
[21]: scores
```

```
[21]: 0    1121
1    1201
2     956
3    1092
4    1024
dtype: int64
```

```
[22]: scores = pd.
↳Series([1121,1201,956,1092,1024],index=['Zhangsan','Lisi','Wangwu','Liuliu','Tom'])
```

```
[23]: scores
```

```
[23]: Zhangsan    1121
Lisi           1201
Wangwu         956
Liuliu         1092
Tom            1024
dtype: int64
```

```
[26]: scores=scores.drop('Tom')
```

```
[34]: scores=scores.append(pd.Series([1066],index=['Jack']))
```

```
[35]: scores
```

```
[35]: Zhangsan    1121
Lisi           1201
Wangwu         956
Liuliu         1092
Jack           1066
dtype: int64
```

```
[ ]:
```