Pandas 實做練習

物件1

df:

A B C D

2013-01-01 0.469112 -0.282863 -1.509059 -1.135632

2013-01-02 1.212112 -0.173215 0.119209 -1.044236

2013-01-03 -0.861849 -2.104569 -0.494929 1.071804

2013-01-04 0.721555 -0.706771 -1.039575 0.271860

2013-01-05 -0.424972 0.567020 0.276232 -1.087401

2013-01-06 -0.673690 0.113648 -1.478427 0.524988

物件2

df2 = pd.DataFrame({'A': 1.,

'B': pd.Timestamp('20130102'), 'C':pd.Series(1,index=list(range(4)),dtype='float32'),

'D': np.array([3] \* 4, dtype='int32'),

'E': pd.Categorical(["test", "train", "test","train"]),

'F': 'foo'})

df2

1. 顯示物件2(df2)的資料型態 ans: df2.dtypes
2. 顯示物件1(df)的前三筆資料 ans: df.head(3)
3. 顯示物件2(df2)的後三筆資料 ans: df2.tail(3)
4. shows a quick statistic summary of your data(df) ans:df.describe()
5. Transposing your data(df) ans: df.T
6. 將物件1(df)橫軸顛倒 ans: df.sort\_index(axis=1,ascending=False)
7. 將物件1(df)C項的值(values) 由大到小排列 ans:df.sort\_values(by=”C”,ascending=False)
8. 顯示物件1(df)20130103~20130105 的C B項

ans: df.loc(“20130103”:”20130105”,[“C”,”B”])

9.