import pandas as pd

pd.set\_option('display.max\_rows', None)

pd.set\_option('display.max\_columns', None)

student\_data = pd.DataFrame({

'school\_code': ['s001','s002','s003','s001','s002','s004'],

'class': ['V', 'V', 'VI', 'VI', 'V', 'VI'],

'name': ['Alberto Franco','Gino Mcneill','Ryan Parkes', 'Eesha Hinton', 'Gino Mcneill', 'David Parkes'],

'date\_Of\_Birth': ['15/05/2002','17/05/2002','16/02/1999','25/09/1998','11/05/2002','15/09/1997'],

'age': [12, 12, 13, 13, 14, 12],

'height': [173, 192, 186, 167, 151, 159],

'weight': [35, 32, 33, 30, 31, 32],

'address': ['street1', 'street2', 'street3', 'street1', 'street2', 'street4']},

index=['S1', 'S2', 'S3', 'S4', 'S5', 'S6'])

print("Original DataFrame:")

print(student\_data)

student\_data[student\_data['height'] >= 150]

student\_data[["name", "date\_Of\_Birth", "age"]]

grp1 = student\_data[["name", "date\_Of\_Birth", "age"]]

print(grp1)

print(student\_data.sort\_values('name', ascending = False))

print(student\_data.sort\_values('age', ascending = False))

print(student\_data.sort\_values('date\_Of\_Birth', ascending = False))

import pandas as pd

pd.set\_option('display.max\_rows', None)

pd.set\_option('display.max\_columns', None)

customer\_data = pd.DataFrame({

'ord\_no':[70001,70009,70002,70004,70007,70005,70008,70010,70003,70012,70011,70013],

'purch\_amt':[150.5,270.65,65.26,110.5,948.5,2400.6,5760,1983.43,2480.4,250.45, 75.29,3045.6],

'ord\_date': ['2012-10-05','2012-09-10','2012-10-05','2012-08-17','2012-09-10','2012-07-27','2012-09-10','2012-10-10','2012-10-10','2012-06-27','2012-08-17','2012-04-25'],

'customer\_id':[3001,3001,3005,3001,3005,3001,3005,3001,3005,3001,3005,3005],

'salesman\_id': [5002,5005,5001,5003,5002,5001,5001,5006,5003,5002,5007,5001]})

print("Original DataFrame:")

print(customer\_data)

customer\_data.groupby(['salesman\_id']).agg({'purch\_amt':sum})

customer\_data.groupby(['customer\_id', 'salesman\_id']).agg({'purch\_amt':sum})