NAME: DHANUSHKANNA V

ROLL NO:210901025

SUB:CS19411- PPML

QUESTION:

5. Write a code

a. Using the groupby function to group the dataset.(10 mark)

import pandas as pd

data1={

"name":["saly","mary","john"],

"age":[50,40,30]

}

data2={

"qualified":[True,False,False]

}

df1=pd.DataFrame(data1)

print("Original DataFrame1:\n",df1)

df2=pd.DataFrame(data2)

print("\nOriginal DataFrame 2:\n",df2)

newdf=df1.group(df2)

print("\ngroup the above two DataFrames groupby operation:\n",newdf)

df1=pd.DataFrame([[1,2],[3,4]])

df2=pd.DataFrame([[5,6],[7,8]])

def myfunc(a,b):

if(a.sum()>b.sum()):

return a

else:

return b

output::

Original DataFrame1:

name age

0 saly 50

1 mary 40

2 john 30

Original DataFrame 2:

qualified

0 True

1 False

2 False

\group the above two DataFrames groupby operation:

name age qualified

0 saly 50 True

1 mary 40 False

2 john 30 False

b. Using merge function to merge two DataFrame. (Note: how=” inner”) (10 mark)

import pandas as pd

data1={

"name":["saly","mary","john"],

"age":[50,40,30]

}

data2={

"qualified":[True,False,False]

}

df1=pd.DataFrame(data1)

print("Original DataFrame1:\n",df1)

df2=pd.DataFrame(data2)

print("\nOriginal DataFrame 2:\n",df2)

newdf=df1.merge(df2)

print("\nmerge the above two DataFrames merge operation:\n",newdf)

df1=pd.DataFrame([[1,2],[3,4]])

df2=pd.DataFrame([[5,6],[7,8]])

def myfunc(a,b):

if(a.sum()>b.sum()):

return a

else:

return b

print("\noriginal merge 1:\n",df1)

print("\noritinal merge 2:\n",df2)

output:

Original DataFrame1:

name age

0 saly 50

1 mary 40

2 john 30

Original DataFrame 2:

qualified

0 True

1 False

2 False

merge the above two DataFrames rising merge operation:

name age qualified

0 saly 50 True

1 mary 40 False

2 john 30 False