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🔁 Q10.py 🗡
       10. us work
           A. Row count
           B. Each age group count
           C. Each profession count [count desc]
           D. Civil engineer dept and age above 30
       import pandas as pd
       data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data Science/Pandas1/Assignmer
       df = pd.DataFrame(data)
       df.columns = ["ID","F_NAME","L_NAME","AGE","PROF","LOC"]
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       df_us = df.loc[df['LOC'] == 'us']
       print(len(df_us))
       print("="*100)
       print(df_us.groupby('AGE')['AGE'].count())
       print("="*100)
       print(df_us.groupby('PROF') ['PROF'].count().sort_values(ascending=False))
       print("="*100)
       print(df_us.loc[(df['PROF'] == 'Civil engineer')&(df['AGE'] > 30)])
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🦆 Q9.py 🗵
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9. India work
    B. Each profession count [count desc order]
    D. Age minimum 3 employees fname, lname, age, prof
    E. age above 40 full data
    F. age range 30 to 40 [profession count]
import pandas as pd
data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data Science/Pandas1/Assignments/customer1.txt", header=None)
df = pd.DataFrame(data)
df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
df_india = df.loc[df['LOC'] == 'india']
print("Row Count = ",len(df_india))
print("="*100)
prof_count = df_india.groupby('PROF') ['PROF'].count().sort_values(ascending=False)
print("Profession count\n",prof_count)
print("="*100)
print("Age mxm 3 employees fname, lname, age, prof\n", df_india.sort_values('AGE', ascending=False)[df.columns[1:5]].head(3))
print("="*100)
print("Age minim 3 employees fname,lname,age,prof\n",df_india.sort_values('AGE')[df.columns[1:5]].head(3))
print("="*100)
print("Age Above 40", df.loc[df['AGE'] > 40][df.columns[1:]])
print("="*100)
print("age range 30 to 40 [profession count]")
print(df.loc[(df['AGE']<=40)&(df['AGE']>=30)].groupby('PROF')['PROF'].count())
print("="*100)
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₹ Q8.py ×
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#8. Each profession count [count desc order]
       import pandas as pd
       data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data Science/Pa
       df = pd.DataFrame(data)
       df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
       prof_count = df.groupby('PROF') ['PROF'].count().sort_values(ascending=False)
       print(prof_count)
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#7. Each age group count [age desc order]
import pandas as pd
data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar
df = pd.DataFrame(data)
df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
age_count = df.groupby('AGE') ['AGE'].count()
print(age_count.sort_values(ascending=False))
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#6. Full data
       import pandas as pd
       data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSM
       df = pd.DataFrame(data)
       df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
       unique = df.groupby('LOC') ['LOC'].count()
       print(unique.sort_values(ascending=False))
       print("="*100)
       print(df.loc[df['LOC'] == 'australia'])
16
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#5. Each location count [count desc order]
import pandas as pd
data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML,
df = pd.DataFrame(data)
df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
unique = df.groupby('LOC') ['LOC'].count()
print(unique.sort_values(ascending=False))
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Q4.py ×

1 #4. Age minimum 5
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#4. Age minimum 5 employees <a href="mailto:fname">fname</a>, <a href="mailto:line">lname</a>, <a href="mailto:prof">prof</a>, <a href="mailto:loc">loc</a>

import pandas as pd

data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data Science

df = pd.DataFrame(data)

df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]

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print(df.sort_values(by='AGE',).head(5)[["F_NAME","L_NAME","PROF","LOC"]])
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₹ Q3.py ×
       #3. Age maximum 10 fname,lname,prof,loc
       import pandas as pd
       data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data Science
       df = pd.DataFrame(data)
       df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
       print(df.sort_values(by='AGE', ascending=False).head(10)[df.columns[1:]])
11
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#2. Remove duplicates rows and find total row count
       import pandas as pd
       data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/
       df = pd.DataFrame(data)
       df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
       print(df.shape[0])
       print("="*100)
       df1 = df.drop_duplicates()
14
       print(df1.shape[0])
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🏓 Q1.py ×
      #1. Find Row count
      import pandas as pd
      data = pd.read_csv("C:/Users/anuru/OneDrive/Desktop/Luminar DSML/Data S
      df = pd.DataFrame(data)
      df.columns = ["ID", "F_NAME", "L_NAME", "AGE", "PROF", "LOC"]
      print(df.head())
      print("="*100)
1
      print("Number Of rows = ",df.shape[0])
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