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#!/usr/bin/python3
import matplotlib.pyplot as plt
import pandas as pd

df = pd.read_csv('emp-dep.csv', dtype={'phone1':str, 'phone2':str})

#t1
x = df['age']
y = df['salary']

plt.scatter(x,y)
plt.show()

dep_counts = df['dname'].value_counts().sort_index()
dep_counts.plot(kind='bar')
plt.show()

dep_counts.plot(kind='barh')
plt.show

#t2
df= pd.read_csv('./emp-dep.csv')
df.groupby(['age_group']).size().plot.bar()
plt.show()

#t3
df = pd.read_csv('./emp-dep.csv')

gender_count = df['gender'].value_counts()
gender_count.plot(kind='pie', ylabel='', labels=['miehet', 'naiset'], autopct='%1.1f%%',
startangle=270, title='Työntekijöiden osuus')

plt.show()

fig, ax = plt.subplots()
cag = df.groupby(['age_group', 'gender']).size().unstack()
ticks = []
for t in range(0, int(cag.max().sum())):
ticks.append(t)
ax = cag.plot(kind='bar')
ax.legend(['miehet', 'naiset'])
plt.yticks(ticks=ticks)
plt.yticks(ticks=ticks)
plt.xlabel('Ikäryhmä')
plt.ylabel('Lukumäärä')
plt.title('Työntekijät ikäryhmittäin', fontsize=13)
plt.show()


#t4
```