

Q.1

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import pandas as pd
from pymongo import MongoClient

data=pd.read_csv(r'C:\Users\22103029\Desktop\Mall_Customers - Mall_Customers.csv')
print(data)

client=MongoClient('mongodb://localhost:27017/')
db=client['mydb']
collection=db['table']

# data_to_enter=data.to_dict('records');
# collection.delete_many({})
# collection.insert_many(data_to_enter)

print("query3")

cust=data[(data["Age"].astype(int)>=20) & (data["Age"].astype(int)<=25)]
print(cust)

highest=data["Spending_Score"].max()
print(highest)

lowest=data["Spending_Score"].min()
print(lowest)
print("query4")

cust=data[(data["Spending_Score"].astype(int)==highest) |
(data["Spending_Score"].astype(int)==lowest)]
print(cust)

print("query5")
male=data[data["Genre"]=="Male"]["Annual_Income_(k$)"].mean()
print(male)
female=data[data["Genre"]=="Female"]["Annual_Income_(k$)"].mean()
print(female)

print("query6")
cust=data[(data["Genre"]=="Female") & (data["Spending_Score"].astype(int)>42)]
print(cust)

print("query7")
```

```
ha=data["Annual_Income_(k$)"].max()  
print(ha)
```

```
la=data["Annual_Income_(k$)"].min()  
print(la)
```

```
cust=data[(data["Genre"]=="Male")&((data["Annual_Income_(k$)"].astype(int)==ha) |  
(data["Annual_Income_(k$)"].astype(int)==la))]  
print(cust)
```