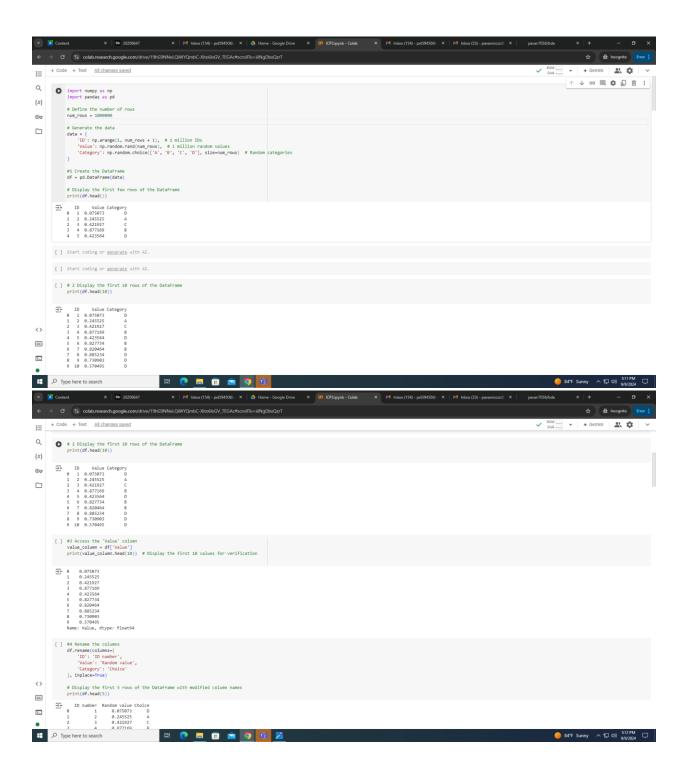
Icp3 assignment



```
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9 0.578495
Q Thame: Value, dtype: float64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ✓ RAM → + Gemini 😩 💠 ∨
 # Display the first 5 rows of the DataFrame with modified column names print(df.head(5))
                        D number Random value Choice
0 1 0.075073 D
1 2 0.245525 A
2 3 0.421927 C
3 4 0.877169 B
4 5 0.421564 D
                         #5 import pandas as pd
                                      # Set display options
pd.set_option('display.max_rows', None)
                                     print("Original DataFrame:")
print(student_data)
                                      # Split the data on school_code and class
result = student_data.groupby(['school_code', 'class'])
                                  # Print the grouped data

print('\nSplit the data on school_code and class:')

print("\nGroup:')

print("\nGroup:')

print(group)
  <>
  \equiv
                      >_
  •
 ✓ RAM → + Gemini 😃 🜣 ∨
  {x}
                     #5 import pandas as pd
  ©77
                                # Set display options
pd.set_option('display.max_rows', None)
                                    ## Create DataFrame with corrected syntax
student_data = pd.DataFrame(
'school_code': [Se01, Se02, Se03, Se04, Se05, Se06],
'class': ['V', 'V', 'VI', 'V', 'V'],
'name': ['Alberto Franco', 'dion Excelll', 'Byan Parkes', 'Eesha Hinton', 'Gino Pkcnell', 'David Parkes'),
'data of _sirch': ['15/es/2e02', '17/es/2e02', '15/e2/1999', '25/e9/1998', '11/e5/2e02', '15/e9/1997'],
'age': [1, 12, 13, 13, 44, 13],
'height': [173, 192, 186, 167, 151, 159],
'weight': [133, 192, 38, 38, 33, 32];
'screet', 'Street6', 'Street6', 'Street6', 'Street6')
'sodoss': ['Street1', Street2', 'Street6', 'Street6']
'sodoss': ['Street1', Street5', 'Street6']
'sodoss': ['Street1', Street5', 'Street6']
  print("Original DataFrame:")
print(student_data)
                                        # Split the data on school_code and class
result = student_data.groupby(['school_code', 'class'])
                                      # Print the grouped data
print('NSplit the data on school_code and class:')
for name, group in result:
print('Ndroup:')
print("Name: (name)")
print(group)
                         Toriginal DataFrame: same date_of_birth age height weight selection of the control of the contro
  <>
  ⊞
                                      Split the data on school_code and class:
                         Group:
Name: (5001, 'V')
school_code class name date_of_birth age height weight \
S1 5001 V Alberto Franco 15/05/2002 12 173 35
  >_
```



```
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                                                                                                                                                                                                                                                                                             ✓ RAM Disk → + Gemini 😩 💠 ∨
Q
#8 Check for null values
print("Mcheck for null values:")
print(student_data.isnull().sum())
                                                                                                                                                                                                                                                                                            ↑ ↓ ⇔ 🗏 ‡ 🖟 🖽 :
             # Replace null values with the mean of the respective column student_data.fillna(student_data.mean(numeric_only=True), inplace=True)
       Check for null values:
school_code 0
class 0
name of birth 0
gets_of_birth 0
perspit 0
noderess 0
dtype: int64
           [] #9 Aggregate data
aggregation - student_data[['height', 'weight']].agg[['min', 'max', 'count', 'mean'])
print('hadgregated data:')
print(aggregation)
          Aggregated Data: height seight ain 151.0e0e0e 30.0e0e0e nax 192.0e0e0 35.0e0e0e count 6.0e0e0e 6.0e0e0e mean 171.333333 32.166667
           [1] import pandas as pd
                 # 10 Sample DataFrame
data = {
    'food': ['apple', 'banana', 'burger', 'pizza', 'salad'],
    'calories': [95, 105, 800, 1200, 150]
                   )
df = pd.DataFrame(data)
                # Filter rows where calories are between 500 and 1000
filtered_df = df[(df['calories'] >= 500) & (df['calories'] <= 1000)]</pre>
            print(filtered_df)
 <>
 food calories 2 burger 800
 [2] import pandas as pd
 •
+ Code + Text All changes saved

2 burger 888
                                                                                                                                                                                                                                                                                             Q
          [2] import pandas as pd
 {x}
               # 11 Sample DataFrame
data - {
    food: ['apple', 'banama', 'burger', 'pizza', 'salad'],
    'calories: [95, 105, 800, 1200, 150],
    pulse: [100, 90, 110, 95, 85]
 ©=7
 }
df = pd.DataFrame(data)
               # Filter rows where calories > 500 and pulse < 100
filtered_df = df[(df['calories'] > 500) & (df['pulse'] < 100)]</pre>
                 print(filtered_df)
            food calories pulse prize 1200 95
       import pandas as pd
                  #12 Sample DataFrame
data - {
    'food': ['apple', 'banama', 'burger', 'pizza', 'salad'],
    'calories': [95, 105, 800, 1200, 150],
    'Maxpulse': [80, 90, 110, 95, 85]
                   }
df = pd.DataFrame(data)
                  # Create a new DataFrame df_modified that excludes the "Maxpulse" column
df_modified = df.drop(columns=['Maxpulse'])
           food calories
0 apple 95
1 banana 105
2 burger 800
3 pizza 1200
4 salad 150
           [4] import pandas as pd
              <>
Calories': [95, 185
'Maxpulse': [80, 90,
}
df = pd.DataFrame(data)
 # Delete the "Maxpulse" column

of - of doon(columns=['Maxpulse'])
```



Gethub:https://github.com/pavan7036/bda