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```
1 # === TraningGrounds.ipynb ===
2
  # Import Dependencies
3
  import pandas as pd
5
6
  # A seriously gigantic DataFrame of individuals' names, their trainers,
7
  # their weight, and their days as gym members
8
  training data = pd.DataFrame({
9
       "Name":["Gino Walker","Hiedi Wasser","Kerrie Wetzel","Elizabeth Sackett",
10
           "Jack Mitten", "Madalene Wayman", "Jamee Horvath", "Arlena Reddin",
11
           "Tula Levan", "Teisha Dreier", "Leslie Carrier", "Arlette Hartson",
12
           "Romana Merkle", "Heath Viviani", "Andres Zimmer", "Allyson Osman",
13
           "Yadira Caggiano", "Jeanmarie Friedrichs", "Leann Ussery", "Bee Mom", "Pandora Charland", "Karena Wooten", "Elizabet Albanese",
14
15
           "Augusta Borjas", "Erma Yadon", "Belia Lenser", "Karmen Sancho",
16
           "Edison Mannion", "Sonja Hornsby", "Morgan Frei", "Florencio Murphy",
17
           "Christoper Hertel", "Thalia Stepney", "Tarah Argento", "Nicol Canfield"
18
           "Pok Moretti", "Barbera Stallings", "Muoi Kelso", "Cicely Ritz",
19
           "Sid Demelo", "Eura Langan", "Vanita An", "Frieda Fuhr",
20
           "Ernest Fitzhenry", "Ashlyn Tash", "Melodi Mclendon", "Rochell Leblanc", "Jacqui Reasons", "Freeda Mccroy", "Vanna Runk", "Florinda Milot",
21
22
           "Cierra Lecompte", "Nancey Kysar", "Latasha Dalton", "Charlyn Rinaldi",
23
           "Erline Averett", "Mariko Hillary", "Rosalyn Trigg", "Sherwood Brauer",
24
           "Hortencia Olesen", "Delana Kohut", "Geoffrey Mcdade", "Iona Delancey"
25
           "Donnie Read", "Cesar Bhatia", "Evia Slate", "Kaye Hugo", "Denise Vento",
26
           "Lang Kittle", "Sherry Whittenberg", "Jodi Bracero", "Tamera Linneman",
27
           "Katheryn Koelling", "Tonia Shorty", "Misha Baxley", "Lisbeth Goering",
28
           "Merle Ladwig", "Tammie Omar", "Jesusa Avilla", "Alda Zabala",
29
           "Junita Dogan", "Jessia Anglin", "Peggie Scranton", "Dania Clodfelter",
30
           "Janis Mccarthy", "Edmund Galusha", "Tonisha Posey", "Arvilla Medley",
31
           "Briana Barbour", "Delfina Kiger", "Nia Lenig", "Ricarda Bulow",
32
           "Odell Carson", "Nydia Clonts", "Andree Resendez", "Daniela Puma",
33
           "Sherill Paavola", "Gilbert Bloomquist", "Shanon Mach", "Justin Bangert"
34
           "Arden Hokanson", "Evelyne Bridge", "Hee Simek", "Ward Deangelis",
35
           "Jodie Childs", "Janis Boehme", "Beaulah Glowacki", "Denver Stoneham",
36
           "Tarra Vinton", "Deborah Hummell", "Ulysses Neil", "Kathryn Marques",
37
           "Rosanna Dake", "Gavin Wheat", "Tameka Stoke", "Janella Clear",
38
           "Kaye Ciriaco", "Suk Bloxham", "Gracia Whaley", "Philomena Hemingway",
39
           "Claudette Vaillancourt", "Olevia Piche", "Trey Chiles",
40
           "Idalia Scardina", "Jenine Tremble", "Herbert Krider", "Alycia Schrock",
41
           "Miss Weibel", "Pearlene Neidert", "Kina Callender", "Charlotte Skelley"
42
           "Theodora Harrigan", "Sydney Shreffler", "Annamae Trinidad", "Tobi Mumme
43
           "Rosia Elliot", "Debbra Putt", "Rena Delosantos", "Genna Grennan",
44
           "Nieves Huf", "Berry Lugo", "Ayana Verdugo", "Joaquin Mazzei",
45
```

```
"Doris Harmon", "Patience Poss", "Magaret Zabel", "Marylynn Hinojos",
46
           "Earlene Marcantel", "Yuki Evensen", "Rema Gay", "Delana Haak",
47
           "Patricia Fetters", "Vinnie Elrod", "Octavia Bellew", "Burma Revard",
48
           "Lakenya Kato", "Vinita Buchner", "Sierra Margulies", "Shae Funderburg",
49
           "Jenae Groleau", "Louetta Howie", "Astrid Duffer", "Caron Altizer",
50
           "Kymberly Amavisca", "Mohammad Diedrich", "Thora Wrinkle",
51
           "Bethel Wiemann", "Patria Millet", "Eldridge Burbach", "Alyson Eddie",
52
           "Zula Hanna", "Devin Goodwin", "Felipa Kirkwood", "Kurtis Kempf",
53
           "Kasey Lenart", "Deena Blankenship", "Kandra Wargo", "Sherrie Cieslak",
54
           "Ron Atha", "Reggie Barreiro", "Daria Saulter", "Tandra Eastman",
55
           "Donnell Lucious", "Talisha Rosner", "Emiko Bergh", "Terresa Launius",
56
           "Margy Hoobler", "Marylou Stelling", "Lavonne Justice", "Kala Langstaff"
57
           "China Truett", "Louanne Dussault", "Thomasena Samaniego",
58
           "Charlesetta Tarbell", "Fatimah Lade", "Malisa Cantero", "Florencia Litten", "Francina Fraise", "Patsy London",
59
60
           "Deloris Mclaughlin"],
61
       "Trainer":['Bettyann Savory','Aldo Byler','Aldo Byler','Mariah Barberio',
62
           'Gordon Perrine', 'Pa Dargan', 'Blanch Victoria', 'Williams Camire',
63
           'Junie Ritenour', 'Gordon Perrine', 'Bettyann Savory', 'Mariah Barberio'
64
           'Aldo Byler', 'Barton Stecklein', 'Bettyann Savory', 'Barton Stecklein',
65
           'Gordon Perrine', 'Pa Dargan', 'Aldo Byler', 'Brittani Brin',
66
           'Bettyann Savory', 'Phyliss Houk', 'Bettyann Savory', 'Junie Ritenour',
67
           'Aldo Byler', 'Calvin North', 'Brittani Brin', 'Junie Ritenour',
68
           'Blanch Victoria', 'Brittani Brin', 'Bettyann Savory', 'Blanch Victoria'
69
           'Mariah Barberio', 'Bettyann Savory', 'Blanch Victoria', 'Brittani Brin'
70
           'Junie Ritenour', 'Pa Dargan', 'Gordon Perrine', 'Phyliss Houk',
71
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72
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73
           'Bettyann Savory', 'Bettyann Savory', 'Pa Dargan', 'Phyliss Houk',
74
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75
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76
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77
           'Gordon Perrine', 'Junie Ritenour', 'Harland Coolidge', 'Blanch Victoria
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79
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80
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81
           'Junie Ritenour', 'Brittani Brin', 'Junie Ritenour', 'Gordon Perrine',
82
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83
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84
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86
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87
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88
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89
           'Brittani Brin', 'Coleman Dunmire', 'Calvin North', 'Phyliss Houk',
90
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```
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             'Gordon Perrine', 'Calvin North', 'Harland Coolidge', 'Coleman Dunmire',
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107
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109
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             'Aldo Byler', 'Mariah Barberio', 'Williams Camire', 'Phyliss Houk',
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             159, 100, 49, 120, 109, 56, 199, 51, 108, 47, 171, 69, 162, 74, 119, 148, 88, 32, 159,
135
```

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```
136
            65, 146, 140, 171, 88, 18, 59, 13]
137 | })
   training data.head()
138
139
140
   # Collecting a summary of all numeric data
141
   training data.describe()
143
144
   # Finding the names of the trainers
145
   training data["Trainer"].unique()
147
148
   # Finding how many students each trainer has
149
   training data["Trainer"].value counts()
151
152
153 # Finding the average weight of all students
   training_data["Weight"].mean()
154
155
156
   # Finding the combined weight of all students
157
   training data["Weight"].sum()
158
159
160
   # Converting the membership days into weeks and
161
   # then adding a column to the DataFrame
   weeks = training data["Membership (Days)"]/7
163
   training data["Membership (Weeks)"] = weeks
164
165
   training data.head()
166
167
168
169
170
171
```