

Coverage for **test_function.py**: 100%

116 statements

116 run

0 missing

0 excluded

```
1 def task2_1(z):
2     import pandas as pd
3     import psycopg2
4     #tweak the database parameters to match your specific postgres database
5     conn=psycopg2.connect(host='localhost',
6                             port='5432',
7                             user='postgres',
8                             password='mysecretpassword',
9                             database='postgres',
10                                #You may add the following line if you have schemas
11                                options="-c search_path=nfl"
12                             )
13     cur=conn.cursor()
14     cur.execute('SELECT short_name FROM "FIFA".players_20 order by ((skill_dribbling + skill_curve + skill_fk_accuracy + sk
15     result=[]
16     for row in cur:
17         result.append(row)
18
19     #dataframe=pd.DataFrame(result[0:z], columns=['shortname'])
20
21     conn.commit()
22     cur.close()
23     conn.close()
24     return result[0:z]
25
26 def task2_2(z):
27     import pandas as pd
28     import psycopg2
29     #tweak the database parameters to match your specific postgres database
30     conn=psycopg2.connect(host='localhost',
31                             port='5432',
32                             user='postgres',
33                             password='mysecretpassword',
34                             database='postgres',
35                                #You may add the following line if you have schemas
36                                options="-c search_path=nfl"
37                             )
38     cur=conn.cursor()
39     cur.execute('SELECT count (sofifa_id),club FROM "FIFA".players_20 WHERE contract_valid_until = 2021 GROUP BY club order
40     result=[]
41     for row in cur:
42         result.append(row)
43
44     #dataframe=pd.DataFrame(result[0:z], columns=['count','club'])
45
46     conn.commit()
47     cur.close()
48     conn.close()
49     return result[0:z]
50
51 def task2_3(z):
52     import pandas as pd
53     import psycopg2
54     #tweak the database parameters to match your specific postgres database
55     conn=psycopg2.connect(host='localhost',
56                             port='5432',
57                             user='postgres',
58                             password='mysecretpassword',
59                             database='postgres',
60                                #You may add the following line if you have schemas
61                                options="-c search_path=nfl"
62                             )
63     cur=conn.cursor()
64     cur.execute('SELECT count(sofifa_id),club FROM "FIFA".players_20 GROUP BY club order by count(sofifa_id) DESC;')
65     result=[]
66     for row in cur:
67         result.append(row)
68
69     #dataframe=pd.DataFrame(result[0:z], columns=['Number of Players','Club Name'])
70
71     conn.commit()
```

```

72 |     cur.close()
73 |     conn.close()
74 |     return result[0:z]
75 |
76 | def task2_4_1():
77 |     import pandas as pd
78 |     import psycopg2
79 |     #tweak the database parameters to match your specific postgres database
80 |     conn=psycopg2.connect(host='localhost',
81 |                           port='5432',
82 |                           user='postgres',
83 |                           password='mysecretpassword',
84 |                           database='postgres',
85 |                           #You may add the following line if you have schemas
86 |                           options="-c search_path=nfl"
87 |                           )
88 |     cur=conn.cursor()
89 |     cur.execute('SELECT count(sofifa_id),nation_position FROM "FIFA".players_20 GROUP BY nation_position order by count(sofifa_id)')
90 |     result=[]
91 |     for row in cur:
92 |         result.append(row)
93 |         break
94 |
95 |     #dataframe=pd.DataFrame(result, columns=['count','nation position'])
96 |
97 |     conn.commit()
98 |     cur.close()
99 |     conn.close()
100 |     return result
101 |
102 | def task2_4_2():
103 |     import pandas as pd
104 |     import psycopg2
105 |     #tweak the database parameters to match your specific postgres database
106 |     conn=psycopg2.connect(host='localhost',
107 |                           port='5432',
108 |                           user='postgres',
109 |                           password='mysecretpassword',
110 |                           database='postgres',
111 |                           #You may add the following line if you have schemas
112 |                           options="-c search_path=nfl"
113 |                           )
114 |     cur=conn.cursor()
115 |     cur.execute('SELECT count(sofifa_id),team_position FROM "FIFA".players_20 GROUP BY team_position order by count(sofifa_id)')
116 |     result=[]
117 |     for row in cur:
118 |         result.append(row)
119 |         break
120 |
121 |     #dataframe=pd.DataFrame(result, columns=['count','nation position'])
122 |
123 |     conn.commit()
124 |     cur.close()
125 |     conn.close()
126 |     return result
127 |
128 | def task2_5():
129 |     import pandas as pd
130 |     import psycopg2
131 |     #tweak the database parameters to match your specific postgres database
132 |     conn=psycopg2.connect(host='localhost',
133 |                           port='5432',
134 |                           user='postgres',
135 |                           password='mysecretpassword',
136 |                           database='postgres',
137 |                           #You may add the following line if you have schemas
138 |                           options="-c search_path=nfl"
139 |                           )
140 |     cur=conn.cursor()
141 |     cur.execute('SELECT count(sofifa_id),nationality FROM "FIFA".players_20 GROUP BY nationality order by count(sofifa_id)')
142 |     result=[]
143 |     for row in cur:
144 |         result.append(row)
145 |         break
146 |
147 |     #dataframe=pd.DataFrame(result, columns=['count','nationality'])
148 |

```

```
149 |     conn.commit()
150 |     cur.close()
151 |     conn.close()
152 |     return result
153 |
154 |
155 | def test_happy_path():
156 |     #Both happy and sad paths
157 |     task2_1(2)
158 |     task2_2(3)
159 |     task2_3(4)
160 |     task2_4_1()
161 |     task2_4_2()
162 |     task2_5()
163 |
164 |     assert len(task2_1(2)) == 2, "Returned should be length 6"
165 |     assert len(task2_2(3)) == 3, "Returned should be length 6"
166 |     assert len(task2_3(4)) == 4, "Returned should be length 5"
167 |     assert len(task2_4_1()) == 1, "Returned should be length 1"
168 |     assert len(task2_4_2()) == 1, "Returned should be length 1"
169 |     assert len(task2_5()) == 1, "Returned should be length 1"
170 |
171 |     assert task2_1(2) == [('T. Haye',), ('Àlex Corredera',)], "Returned value"
172 |     assert task2_2(3) == [(18, 'FC Ingolstadt 04'),(18, '1. FC Kaiserslautern'),(17, 'FC Girondins de Bordeaux')], "Returned"
173 |     assert task2_3(4) == [(33, 'VfL Wolfsburg'), (33, 'Norwich City'), (33, 'AS Monaco'), (33, 'Crystal Palace')], "Returned"
174 |     assert task2_4_1() == [(17152, None)], "Returned value"
175 |     assert task2_4_2() == [(7820, 'SUB')], "Returned value"
176 |     assert task2_5() == [(1667, 'England')], "Returned value"
177 |
178 | def test_sad_path():
179 |     task2_1(2)
180 |     task2_2(3)
181 |     task2_3(4)
182 |     task2_4_1()
183 |     task2_4_2()
184 |     task2_5()
185 |     assert task2_1(2) is not None, "Returned should not be None"
186 |     assert task2_2(3) is not None, "Returned should not be None"
187 |     assert task2_3(4) is not None, "Returned should not be None"
188 |     assert task2_4_1() is not None, "Returned should not be None"
189 |     assert task2_4_2() is not None, "Returned should not be None"
190 |     assert task2_5() is not None, "Returned should not be None"
191 |
192 |     assert task2_1(2) is not int, "Returned should be integer"
193 |     assert task2_2(3) is not int, "Returned should be integer"
194 |     assert task2_3(4) is not int, "Returned should be integer"
```

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