Source

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```python
1  from flask import Flask
2  from snowflake import connector
3
4  app = Flask(__name__)
5
6
7  @app.route("/", methods=['GET'])
8  def home():
9      return "Congrats And Welcome To Your Flask App!"
10
11
12  @app.route("/createWarehouse/<string:environment_name>/<int:seal_id>", methods=['POST'])
13  def create_warehouse(environment_name, seal_id):
14      cnx = sfconnect()
15      cs = cnx.cursor()
16      try:
17          sql_command = ("set environment_name = CONCAT('{0}',' ','_');"
18          "set seal_id = '{1}';"
19          "SET WH_NAME = CONCAT($environment_name, $SEAL_ID, '_TEST_WH');"
20          "set env_role_admin = CONCAT($environment_name, 'ROLE_ADMIN');"
21          "set env_sys_admin = CONCAT($environment_name, 'SYS_ADMIN');"
22          "SET FR_DATA_SCIENTIST = CONCAT($environment_name, $SEAL_ID, '_DATA_SCIENTIST',' ','_FR');"
23          "SET FR_DATA_ANALYST = CONCAT($environment_name, $SEAL_ID, '_DATA_ANALYST',' ','_FR');"
24          "SET FR_DATA_ENGINEER = CONCAT($environment_name, $SEAL_ID, '_DATA_ENGINEER',' ','_FR');"
25          "USE ROLE identifier($env_sys_admin);"
26          "CREATE WAREHOUSE identifier($WH_NAME) WAREHOUSE_SIZE = 'XSMALL';"
27          "GRANT OWNERSHIP ON WAREHOUSE identifier($WH_NAME) TO identifier($env_sys_admin);"
28          "USE ROLE identifier($env_role_admin);"
29          "SET AR_WH = CONCAT($environment_name, $SEAL_ID, '_WH',' ','_AR_TEST');"
30          "SET AR_WHO = CONCAT($environment_name, $SEAL_ID, '_WHO',' ','_AR_TEST');"
31          "SET AR_WFULL = CONCAT($environment_name, $SEAL_ID, '_WFULL',' ','_AR_TEST');"
32          "CREATE ROLE identifier($AR_WH);"
33          "CREATE ROLE identifier($AR_WHO);"
```

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```
22    "SET FR_DATA_SCIENTIST = CONCAT($environment_name, $SEAL_ID, '_DATA_SCIENTIST', '_FR');"
23    "SET FR_DATA_ANALYST = CONCAT($environment_name, $SEAL_ID, '_DATA_ANALYST', '_FR');"
24    "SET FR_DATA_ENGINEER = CONCAT($environment_name, $SEAL_ID, '_DATA_ENGINEER', '_FR');"
25    "USE ROLE identifier($env_sys_admin);"
26    "CREATE WAREHOUSE identifier($WH_NAME) WAREHOUSE_SIZE = 'XSMALL';"
27    "GRANT OWNERSHIP ON WAREHOUSE identifier($WH_NAME) TO identifier($env_sys_admin);"
28    "USE ROLE identifier($env_role_admin);"
29    "SET AR_WU = CONCAT($environment_name, $SEAL_ID, '_WU', '_AR_TEST');"
30    "SET AR_WMO = CONCAT($environment_name, $SEAL_ID, '_WMO', '_AR_TEST');"
31    "SET AR_WFULL = CONCAT($environment_name, $SEAL_ID, '_WFULL', '_AR_TEST');"
32    "CREATE ROLE identifier($AR_WU);"
33    "CREATE ROLE identifier($AR_WMO);"
34    "CREATE ROLE identifier($AR_WFULL);"
35    "USE ROLE identifier($env_sys_admin);"
36    "GRANT USAGE ON WAREHOUSE identifier($WH_NAME) TO ROLE identifier($AR_WU);"
37    "GRANT USAGE, OPERATE, MONITOR ON WAREHOUSE identifier($WH_NAME) TO ROLE identifier($AR_WMO);"
38    "GRANT USAGE, OPERATE, MONITOR, MODIFY ON WAREHOUSE identifier($WH_NAME) TO ROLE identifier($AR_WFULL);"
39    "USE ROLE identifier($env_role_admin);"
40    "GRANT ROLE identifier($AR_WFULL) TO ROLE identifier($env_sys_admin);"
41    "GRANT ROLE identifier($AR_WMO) TO ROLE identifier($FR_DATA_ENGINEER);"
42    "GRANT ROLE identifier($AR_WMO) TO ROLE identifier($FR_DATA_SCIENTIST);"
43    "GRANT ROLE identifier($AR_WU) TO ROLE identifier($FR_DATA_ANALYST);").format(environment_name,
44                                                                                  seal_id)
45
46    cnx.execute_string(sql_command)
47    finally:
48        cs.close()
49    cnx.close()
50
51    return "Warehouse created successfully!!!"
52
53
54    @app.route("/dropWarehouse/<string:environment_name>/<int:seal_id>", methods=['DELETE'])
55    def drop_warehouse(environment_name, seal_id):
56        cnx = sfconnect()
57        cs = cnx.cursor()
58        try:
59            sql_command = ("set environment_name = CONCAT('{0}', '_');"
60                           "set seal_id = '{1}';"
61                           "SET WH_NAME = CONCAT($environment_name, $SEAL_ID, '_TEST_WH');"
62                           "set env_role_admin = CONCAT($environment_name, 'ROLE_ADMIN');"
```

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```
                                                                    seal_id)
44
45      cnx.execute_string(sql_command)
46  finally:
47      cs.close()
48
49  cnx.close()
50
51  return "warehouse created successfully!!!"
52
53
54  @app.route("/dropwarehouse/<string:environment_name>/<int:seal_id>", methods=['DELETE'])
55  def drop_warehouse(environment_name, seal_id):
56      cnx = sfconnect()
57      cs = cnx.cursor()
58      try:
59          sql_command = ("set environment_name = CONCAT('{0}', '_');"
60              "set seal_id   = '{1}';"
61              "SET WH_NAME = CONCAT($environment_name, $SEAL_ID, '_TEST_WH');"
62              "set env_role_admin = CONCAT($environment_name, $SEAL_ID, 'ROLE_ADMIN');"
63              "set env_sys_admin  = CONCAT($environment_name, 'SYS_ADMIN');"
64              "USE ROLE identifier($env_role_admin);"
65              "SET AR_WU = CONCAT($environment_name, $SEAL_ID, '_WU','_AR_TEST');"
66              "SET AR_WRD = CONCAT($environment_name, $SEAL_ID, '_WRD','_AR_TEST');"
67              "SET AR_WFULL = CONCAT($environment_name, $SEAL_ID, '_WFULL','_AR_TEST');"
68
69              "USE ROLE identifier($env_role_admin);"
70              "DROP ROLE identifier($AR_WU);"
71              "DROP ROLE identifier($AR_WRD);"
72              "DROP ROLE identifier($AR_WFULL);"
73
74              "USE ROLE identifier($env_sys_admin);"
75              "DROP WAREHOUSE identifier($WH_NAME);").format(environment_name, seal_id)
76
77          cnx.execute_string(sql_command)
78      finally:
79          cs.close()
80
81      cnx.close()
82
83      return "warehouse dropped successfully!!!"
84  def sfconnect():
```

```python
57        cs = cnx.cursor()
58
59        try:
60            sql_command = ("set environment_name = CONCAT('{0}',',',-')';"
61                "set seal_id = '{1}';"
62                "SET WH_NAME = CONCAT($environment_name, $SEAL_ID, '_TEST_WH');"
63                "set env_role_admin = CONCAT($environment_name, 'ROLE_ADMIN');"
64                "set env_sys_admin = CONCAT($environment_name, 'SYS_ADMIN');"
65                "USE ROLE identifier($env_role_admin);"
66                "SET AR_WU = CONCAT($environment_name, $SEAL_ID, '_WU', '_AR_TEST');"
67                "SET AR_WMO = CONCAT($environment_name, $SEAL_ID, '_WMO', '_AR_TEST');"
68                "SET AR_WFULL = CONCAT($environment_name, $SEAL_ID, '_WFULL', '_AR_TEST');"

69                "USE ROLE identifier($env_role_admin);"
70                "DROP ROLE identifier($AR_WU);"
71                "DROP ROLE identifier($AR_WMO);"
72                "DROP ROLE identifier($AR_WFULL);"
73
74                "USE ROLE identifier($env_sys_admin);"
75                "DROP WAREHOUSE identifier($WH_NAME);").format(environment_name, seal_id)

76            cnx.execute_string(sql_command)
77        finally:
78            cs.close()
79            cnx.close()
80
81        return "Warehouse dropped successfully!!!"
82
83
84    def sfconnect():
85        cnx = connector.connect(
86            account='ceshassium.us-east-1', # yet to be included in headers
87            user='EMAIL_ID_PLACEHOLDER', # yet to be included in headers
88            authenticator='externalbrowser')
89
90        return cnx
91
92    if __name__ == "__main__":
93        app.run(debug=True, host='localhost', port=8080)
```