Success Factor API

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USE ROLE ACCOUNTADMIN;
USE DATABASE SANDBOX;
USE SCHEMA SOURCING;
CREATE OR REPLACE NETWORK RULE SUCCESS_FACTOR_API_NETWORK_RULE
 MODE = EGRESS
 TYPE = HOST_PORT
 VALUE_LIST = ('api55.sapsf.eu');
CREATE OR REPLACE EXTERNAL ACCESS INTEGRATION SUCCESS_FACTOR_API_INTEGRATION_EXTERNAL_ACCESS
  ALLOWED_NETWORK_RULES = (SUCCESS_FACTOR_API_NETWORK_RULE)
  ALLOWED_AUTHENTICATION_SECRETS = ALL
  ENABLED = true;
CREATE OR REPLACE SECRET SUCCESS_FACTOR_API_TOKEN_SECRET
 TYPE = GENERIC_STRING
  SECRET_STRING = '<SECRET-KEY>';
CREATE OR REPLACE PROCEDURE PS_GET_FROM_SUCCESS_FACTOR_API (URL STRING, table_name STRING)
 RETURNS STRING
 LANGUAGE PYTHON
 RUNTIME_VERSION = 3.10
  HANDLER = 'get_data'
  EXTERNAL_ACCESS_INTEGRATIONS = (SUCCESS_FACTOR_API_INTEGRATION_EXTERNAL_ACCESS)
 PACKAGES = ('snowflake-snowpark-python', 'requests')
  SECRETS = ('cred' = SUCCESS_FACTOR_API_TOKEN_SECRET)
 EXECUTE AS CALLER
  AS
  $$
import _snowflake
import requests
import json
def get_token():
    return _snowflake.get_generic_secret_string("cred")
def get headers():
   headers = {
       'Accept': 'application/json',
        'Authorization': 'Basic {}'.format(get_token())
    return headers
def get_nextPageURL(last_result):
   return last_result.get('d').get('__next', None)
def get_data(session, URL, table_name):
   headers = get_headers()
    current_url = URL
    session.sql(f"CREATE OR REPLACE TABLE {table_name} (page_id NUMBER, json_data VARIANT);").collect()
   last_result = None;
   page = 0
    while current_url:
       try:
            page += 1
            last_result = requests.get(url=current_url, headers=headers).json()
            if not last_result:
               break
            # Use a parameterized query with placeholders
            query = "INSERT INTO {0} (page_id, json_data) SELECT :1, PARSE_JSON(:2)".format(table_name)
```

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session.sql(query, (page, json.dumps(last_result))).collect()
          current_url = get_nextPageURL(last_result)
       except Exception as e:
          RESULT:\t{last_result}"
   return f"TABLE NAME:\t{table_name}\nURL:\t{URL}\nTOTAL PAGES:\t{page}\nLATEST RESULT:\t{last_result}"
 $$;
GRANT USAGE ON PROCEDURE SANDBOX.SOURCING.PS_GET_FROM_SUCCESS_FACTOR_API(VARCHAR, VARCHAR) TO ROLE
HRDP_NP_DOMAIN_ADMIN;
GRANT USAGE ON SCHEMA SANDBOX.SOURCING TO ROLE HRDP_NP_DOMAIN_ADMIN;
GRANT USAGE ON SCHEMA SANDBOX.TESTING TO ROLE HRDP_NP_DOMAIN_ADMIN;
GRANT USAGE ON DATABASE SANDBOX TO ROLE HRDP_NP_DOMAIN_ADMIN;
use role HRDP_NP_DOMAIN_ADMIN;
---example
CALL SANDBOX.SOURCING.PS_GET_FROM_SUCCESS_FACTOR_API('https://api55.sapsf.eu/odata/v2/Country?
paging=cursor&customPageSize=500&','SANDBOX.TESTING.SF_API_COUNTRY');
SELECT JD.VALUE:code::string as Country_Code, JD.VALUE:currency::string AS Country_Currency, JD.VALUE
FROM SANDBOX.TESTING.SF_API_COUNTRY,
LATERAL FLATTEN(JSON_DATA, 'd.results') AS JD ;
```