```
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\run local\run local scraper amazon.py
import ssl
import string
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Set, Tuple
from urllib.parse import unquote, urlparse
import nltk
import psycopg2
import psycopg2.extras
import requests
from bs4 import BeautifulSoup
from nltk.corpus import stopwords
try:
    create unverified https context = ssl. create unverified context
except AttributeError:
    pass
else:
    ssl. create default https context = create unverified https context
nltk.download("punkt")
nltk.download("stopwords")
def amazon scraper(query) -> Optional[str]:
    SEARCH PRODUCTS URL = "https://www.amazon.com.br/s?k="
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7qri@gw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '+')}"
    try:
        response = requests.get(url, headers=headers, proxies=proxy)
    except Exception as error:
        print("Erro ao fazer requisição:", error)
        return None
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "div", class ="s-main-slot s-result-list s-search-results sg-row"
    )
    products = []
    for product section in product list:
```

```
try:
            product = product_section.find(
                "div", class = "a-section aok-relative s-image-square-
aspect"
            descricao = product.find("img", class ="s-image")["alt"]
            link section = product section.find(
                "a", class = "a-link-normal s-no-outline"
            link = f"https://www.amazon.com.br{link_section['href']}"
            # img link = product.find("img", class ="s-image")["src"]
            # sku = link.split("/dp/")[1].split("/")[0]
            products.append({"url": link, "description": descricao})
        except Exception as error:
            print("Erro ao buscar produto:", error)
            continue
    if most similar product := find most similar(query, products):
        print("Produto mais similar encontrado:")
        print(most similar product["url"])
        return most similar product["url"]
        print("Nenhum produto similar encontrado.")
        return None
def tokenize and lower(text: str) -> Set[str]:
    cleaned text = remove punctuation(text)
    tokens = nltk.word tokenize(cleaned text.lower())
    return set(tokens)
def remove punctuation(text: str) -> str:
    Remove punctuation from the given text.
    Args:
       text (str): The input text.
    Returns:
        str: The text without punctuation.
    translator = str.maketrans("", "", string.punctuation)
    return text.translate(translator)
def find most similar(
    query: str, products: List[Dict[str, str]]
) -> Optional[Dict[str, str]]:
    query tokens = tokenize and lower(query)
    \max intersection = 0
    most similar product = None
```

```
min intersection = calculate min intersection(query)
    for product in products:
        try:
            product tokens = tokenize and lower(product["description"])
            intersection = len(query tokens.intersection(product tokens))
            if intersection >= min intersection and intersection >
max intersection:
                max intersection = intersection
                most similar product = {
                    "url": product["url"],
                    "description": product["description"],
                }
        except Exception as error:
            print(f"Error processing product: {error}")
            continue
    return most similar product
def calculate min intersection(query: str, percentage: float = 50.0) ->
int:
    Calculate the minimum intersection value based on the input query and
percentage.
    Args:
        query (str): The input query.
        percentage (float, optional): The percentage to calculate the
minimum intersection. Defaults to 50.0.
    Returns:
        int: The minimum intersection value.
    tokens = nltk.word tokenize(query)
    return int(len(tokens) * (percentage / 100))
def create_connection():
    return psycopg2.connect(
        dbname="eiprice-hml",
        user="postgres",
        password="GNrx+6bh) So<mU",
        host="35.184.21.249",
    )
def fetch schemas(connection) -> List[Tuple[str]]:
    cursor = connection.cursor(cursor factory=psycopg2.extras.DictCursor)
    cursor.execute(
```

```
"SELECT schema name FROM information schema.schemata WHERE
schema name NOT IN ('public', 'information schema', 'pg catalog',
'pg toast', 'sku');"
    )
    return cursor.fetchall()
def fetch products(connection, schema: str, id concorrente) ->
List[Tuple]:
    cursor = connection.cursor(cursor factory=psycopg2.extras.DictCursor)
    cursor.execute(
        f"SELECT * FROM {schema}.produto novo WHERE id concorrente =
{id concorrente};"
    return cursor.fetchall()
def insert sku(connection, schema: str, data: Tuple):
    cursor = connection.cursor(cursor factory=psycopg2.extras.DictCursor)
    cursor.execute(
        f"INSERT INTO {schema}.sku (ean, cod ref, id loja, slug) VALUES
(%s, %s, %s, %s)",
        data,
    connection.commit()
def insert product not found (produto: dict, schema: str):
    connection = create connection()
    cursor = connection.cursor(cursor factory=psycopg2.extras.DictCursor)
    cursor.execute(
        f"INSERT INTO {schema}.produto nao encontrado (ean, sku, produto,
departamento, categoria, marca, id concorrente, nome concorrente) VALUES
(%s, %s, %s, %s, %s, %s, %s, %s)",
            produto["ean"],
            produto["sku"],
            produto["produto"],
            produto["departamento"],
            produto["categoria"],
            produto["marca"],
            produto["id concorrente"],
            produto["nome concorrente"],
        ),
    connection.commit()
    close connection(connection)
def delete sku(schema: str, id: str):
    connection = create connection()
    cursor = connection.cursor(cursor factory=psycopg2.extras.DictCursor)
    cursor.execute(f"DELETE FROM {schema}.produto novo WHERE id = %s",
(id,))
```

```
connection.commit()
def close connection (connection):
   connection.close()
def extract product sku(url: str) -> str:
   parsed url = urlparse(unquote(url))
   path_components = parsed_url.path.strip("/").split("/")
   if "dp" in path components:
       dp index = path components.index("dp")
       if dp index + 1 < len(path components):
           return path components[dp index + 1]
def executar consulta():
   connection = create_connection()
   try:
       schemas = fetch schemas(connection)
       print(f"Schemas: {schemas}")
       for schema in schemas:
           produtos = fetch products(connection, schema[0], 156)
           if not produtos:
               print("Nenhum resultado encontrado.")
               continue
           for produto in produtos:
               print("======="")
               print(produto[3])
               slug = amazon scraper(produto[3])
               print(slug)
               print("======="")
               if slug is None:
                   insert product not found(produto, schema[0])
                  delete sku(schema[0], produto[0])
               else:
                  try:
                      sku = extract_product_sku(slug)
                      insert sku(
                          connection,
                          schema[0],
                              produto[1],
                              sku,
                              produto[7],
                              slug,
                          ),
                      delete sku(schema[0], produto[0])
                      print("SKU inserido com sucesso:", sku)
                      print("========"")
```

```
except Exception as error:
                        print("Erro ao inserir sku:", error)
                        print(error)
                        print("======="")
                        continue
    except Exception as error:
        print("Erro ao executar consulta:", error)
    finally:
        close connection(connection)
executar consulta()
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scrapers_template.py
import string
from datetime import datetime, timedelta
from typing import Dict, List, Optional
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from nltk.corpus import stopwords
from unidecode import unidecode
nltk.download("punkt")
nltk.download("stopwords")
from airflow.models import Variable
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email_on_failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
    "scraper_X",
    default args=default args,
    description="Classificador de produtos X",
    schedule interval="0 21 * * *",
)
```

```
def remove punctuation(text: str) -> str:
    Remove punctuation from the given text.
    Args:
        text (str): The input text.
    Returns:
        str: The text without punctuation.
    translator = str.maketrans("", "", string.punctuation)
    return text.translate(translator)
def tokenize and lower(text: str) -> Set[str]:
    Tokenize the input text and convert it to lowercase.
    Args:
        text (str): The input text.
    Returns:
        Set[str]: A set of unique lowercase tokens.
    cleaned text = remove punctuation(text)
    tokens = nltk.word tokenize(cleaned text.lower())
    return set(tokens)
def calculate min intersection(query: str, percentage: float = 50.0) ->
int:
    Calculate the minimum intersection value based on the input query and
percentage.
    Args:
        query (str): The input query.
        percentage (float, optional): The percentage to calculate the
minimum intersection. Defaults to 50.0.
    Returns:
        int: The minimum intersection value.
    tokens = nltk.word tokenize(query)
    return int(len(tokens) * (percentage / 100))
def find most similar(
    query: str, products: List[Dict[str, str]]
) -> Optional[Dict[str, str]]:
    query tokens = tokenize and lower(query)
    max intersection = 0
    most similar product = None
```

```
min intersection = calculate min intersection(query)
    for product in products:
        try:
            product tokens = tokenize and lower(product["description"])
            intersection = len(query tokens.intersection(product tokens))
            if intersection >= min intersection and intersection >
max intersection:
                max intersection = intersection
                most similar product = {
                    "url": product["url"],
                    "description": product["description"],
                }
        except Exception as error:
            print(f"Error processing product: {error}")
            continue
    return most similar product
def amazon scraper(query: str) -> Optional[str]:
    query tokens = tokenize and lower(query)
    SEARCH PRODUCTS URL = "https://SUAURL/SEUSPARAMENTROSDEBUSCA"
    # proxy = {"http": Variable.get('PROXY')} # usar ao subir para
airflow
    proxy = {
        "http": "http://Eiprice-cc-any:DQSXomtV7qri@gw.ntnt.io:5959"
      # usar local para testar
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '+')}"
    try:
        response = requests.get(url, headers=headers, proxies=proxy)
    except Exception as error:
        print("Erro ao fazer requisição:", error)
        return None
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "div", class = "SUA CLASSE ONDE ESTA A GRADE DE PRODUTOS"
    )
    products = []
    for product section in product list:
```

```
try:
            product = product section.find(
                "div", class = "CLASSE DE CADA PRODUTO DA LISTA"
            descricao = product.find("img", class = "CLASSE DA
IMAGEM") ["alt"]
            link section = product section.find("a", class = "CLASSE DE
SEU LINK")
            link = f"https://www.amazon.com.br{link section['href']}"
            img_link = product.find("img", class ="CLASSE DO LINK DA
IMAGEM") ["src"]
            sku = link.split("/dp/")[1].split("/")[
            ] # GERALMENTE ENCONTRAMOS SKU NAS URLS, MAS EM ALGUNS SITES
PRECISAMOS ANALISAR CODIGO FONTE/CLASSES...
            products.append(
                {
                    "url": link,
                    "description": descricao,
                    "sku": sku,
                    "img link": img link,
            )
        except Exception as error:
            print("Erro ao buscar produto:", error)
            continue
    if most similar product := find most similar(query tokens, products):
        print("Produto mais similar encontrado:")
        print(most similar product["description"],
most similar product["url"])
        return most similar product["url"]
        print("Nenhum produto similar encontrado.")
        return None
def executar consulta():
    # connection hook =
PostgresHook(postgres conn id=Variable.get('POSTGRES DB')) # usar ao
subir para airflow
    connection hook = PostgresHook(postgres conn id="eiprice-dev") #
usar local
    connection = connection hook.get conn()
    cursor = connection.cursor()
    try:
        cursor.execute(
            "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
        resultados = cursor.fetchall()
```

```
for resultado in resultados:
           ean, sku, id loja, atributo, status, descricao = resultado
           print("======="")
           print(resultado[5])
           slug = amazon_scraper(unidecode(resultado[5]))
           print(slug)
           print("======="")
           trv:
               cursor.execute(
                   "INSERT INTO kabum.sku (ean, cod_ref, id_loja,
atributo, status, slug) VALUES (%s, %s, %s, %s, %s, %s, %s)",
                   (ean, sku, id loja, atributo, status, slug),
           except Exception as error:
               print("Erro ao inserir sku:", sku)
               print(error)
               print("========"")
               continue
   except Exception as error:
       print("Erro ao executar consulta:", error)
   finally:
       connection.commit()
       connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
def run X scraper local(query: str) -> None:
   Run the X scraper locally with the given query.
   Args:
       query (str): The input query.
   print("Running X scraper locally...")
   print("Query:", query)
   SEARCH PRODUCTS URL = "https://www.X.com.br/"
   PROXY = "http://Eiprice-cc-any:DQSXomtV7qri@qw.ntnt.io:5959"
   HEADERS = {
       "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
```

```
"Accept-Language": "en-US, en; q=0.5",
    }
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '+')}"
    response = requests.get(url, headers=HEADERS, proxies={PROXY})
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "div", class = "s-main-slot s-result-list s-search-results sg-row"
    products = []
    for product section in product list:
            product = product section.find(
                "div", class = "a-section aok-relative s-image-square-
aspect"
            descricao = product.find("img", class ="s-image")["alt"]
            link section = product section.find(
                "a", class = "a-link-normal s-no-outline"
            link = f"{SEARCH PRODUCTS URL}{link section['href']}"
            products.append({"url": link, "description": descricao})
        except Exception as error:
            print("Erro ao buscar produto:", error)
            continue
    if most similar product := find most similar(query, products):
        print("Produto mais similar encontrado:")
        print(most similar product["url"])
    else:
        print("Nenhum produto similar encontrado.")
if name == " main ":
    sample query = "COMPUTADOR GAMER 128GB RAM SSD HD 1TB NOVO"
    run_X_scraper_local(sample_query)
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper amazon.py
import ssl
import string
from datetime import datetime, timedelta
from typing import Dict, List, Optional, Set, Tuple
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
```

```
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from nltk.corpus import stopwords
from urllib.parse import urlparse, unquote
nltk.download("punkt")
nltk.download("stopwords")
from airflow.models import Variable
try:
    create unverified https context = ssl. create unverified context
except AttributeError:
   pass
else:
    ssl._create_default_https_context = _create_unverified_https_context
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
    "scraper amazon",
    default args=default args,
    description="Classificador de produtos da Amazon",
    schedule interval="0 21 * * *",
)
def remove punctuation(text: str) -> str:
    Remove punctuation from the given text.
    Args:
        text (str): The input text.
    Returns:
        str: The text without punctuation.
    translator = str.maketrans("", "", string.punctuation)
    return text.translate(translator)
def tokenize and lower(text: str) -> Set[str]:
```

```
Tokenize the input text and convert it to lowercase.
    Args:
        text (str): The input text.
    Returns:
        Set[str]: A set of unique lowercase tokens.
    cleaned text = remove punctuation(text)
    tokens = nltk.word tokenize(cleaned text.lower())
    return set(tokens)
def calculate min intersection(query: str, percentage: float = 50.0) ->
int:
    Calculate the minimum intersection value based on the input query and
percentage.
    Args:
        query (str): The input query.
        percentage (float, optional): The percentage to calculate the
minimum intersection. Defaults to 50.0.
    Returns:
        int: The minimum intersection value.
    tokens = nltk.word tokenize(query)
    return int(len(tokens) * (percentage / 100))
def find most similar (
    query: str, products: List[Dict[str, str]]
) -> Optional[Dict[str, str]]:
    query_tokens = tokenize_and lower(query)
    \max intersection = 0
    most similar product = None
    min intersection = calculate min intersection(query)
    for product in products:
        try:
            product tokens = tokenize and lower(product["description"])
            intersection = len(query tokens.intersection(product tokens))
            if intersection >= min intersection and intersection >
max intersection:
                max intersection = intersection
                most similar product = {
                    "url": product["url"],
                    "description": product["description"],
                }
        except Exception as error:
```

** ** **

```
print(f"Error processing product: {error}")
            continue
    return most similar product
def amazon scraper(query: str) -> Optional[str]:
    SEARCH PRODUCTS URL = "https://www.amazon.com.br/s?k="
    proxy = {"http": Variable.get("PROXY")}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH_PRODUCTS URL}{query.replace(' ', '+')}"
    try:
        response = requests.get(url, headers=headers, proxies=proxy)
    except Exception as error:
        print("Erro ao fazer requisição:", error)
        return None
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "div", class = "s-main-slot s-result-list s-search-results sg-row"
    products = []
    for product section in product list:
        try:
            product = product section.find(
                "div", class = "a-section aok-relative s-image-square-
aspect"
            descricao = product.find("img", class ="s-image")["alt"]
            link_section = product section.find(
                "a", class = "a-link-normal s-no-outline"
            link = f"https://www.amazon.com.br{link section['href']}"
            # img link = product.find("img", class ="s-image")["src"]
            # sku = link.split("/dp/")[1].split("/")[0]
            products.append({"url": link, "description": descricao})
        except Exception as error:
            print("Erro ao buscar produto:", error)
            continue
    if most similar product := find most similar(query, products):
        print("Produto mais similar encontrado:")
```

```
print(most similar product["url"])
        return most similar product["url"]
    else:
        print("Nenhum produto similar encontrado.")
        return None
####
def get connection():
    Get the PostgresHook connection object.
    Returns:
       Connection object.
    return
PostgresHook(postgres conn id=Variable.get("POSTGRES DB")).get conn()
def fetch schemas() -> List[str]:
    connection = get connection()
    cursor = connection.cursor()
    cursor.execute(
        "SELECT schema name FROM information schema.schemata WHERE
schema name NOT IN ('public', 'information schema', 'pg catalog',
'pg_toast', 'sku');"
   )
    # Transforma a lista de tuplas em uma lista de strings
    return [result[0] for result in cursor.fetchall()]
def fetch products(schema: str, id concorrente) -> List[Tuple]:
    connection = get connection()
    cursor = connection.cursor()
    cursor.execute(
        f"SELECT * FROM {schema}.produto novo WHERE id concorrente =
{id concorrente};"
    )
    return cursor.fetchall()
def insert sku(schema: str, data: Tuple):
   connection = get connection()
    cursor = connection.cursor()
    cursor.execute(
       f"INSERT INTO {schema}.sku (ean, cod ref, id loja, slug) VALUES
(%s, %s, %s, %s)",
        data,
    )
    connection.commit()
def insert product not found (produto: dict, schema: str):
```

```
connection = get connection()
    cursor = connection.cursor()
    cursor.execute(
        f"INSERT INTO {schema}.produto nao encontrado (ean, sku, produto,
departamento, categoria, marca, id concorrente, nome concorrente) VALUES
(%s, %s, %s, %s, %s, %s, %s, %s)",
            produto["ean"],
            produto["sku"],
            produto["produto"],
            produto["departamento"],
            produto["categoria"],
            produto["marca"],
            produto["id concorrente"],
            produto["nome concorrente"],
        ),
    connection.commit()
    close connection(connection)
def delete sku(schema: str, id: str):
    connection = get connection()
    cursor = connection.cursor()
    cursor.execute(f"DELETE FROM {schema}.produto novo WHERE id = %s",
(id,)
    connection.commit()
def close connection():
    connection = get connection()
    connection.close()
def extract product sku(url: str) -> str:
    parsed url = urlparse(unquote(url))
    path_components = parsed_url.path.strip("/").split("/")
    if "dp" in path components:
        dp index = path components.index("dp")
        if dp index + 1 < len(path components):
            return path components[dp index + 1]
def executar consulta():
    try:
        schemas = fetch schemas()
        print(f"Schemas: {schemas}")
        for schema name in schemas:
            try:
                produtos = fetch products(schema name, 156)
                if not produtos:
                    print("Nenhum resultado encontrado.")
                    continue
```

```
for produto in produtos:
                 print("========"")
                 print(produto[3])
                 slug = amazon scraper(produto[3])
                 print(slug)
                 print("======="")
                 if slug is None:
                     insert product not found (produto, schema name)
                     delete sku(schema name, produto[0])
                 try:
                     sku = extract_product_sku(slug)
                     insert sku(
                         schema name,
                            produto[1],
                            sku,
                            produto[7],
                            slug,
                         ),
                     delete sku(schema name, produto[0])
                     print("SKU inserido com sucesso:", sku)
                     print("========"")
                 except Exception as error:
                     print("Erro ao inserir sku:", error)
                     print(error)
                     print("======="")
          except Exception as schema error:
              print(f"Erro ao processar o schema {schema name}:",
schema error)
              print("========"")
   except Exception as error:
       print("Erro ao executar consulta:", error)
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
def run amazon scraper local(query: str) -> None:
   Run the Amazon scraper locally with the given query.
   Args:
      query (str): The input query.
   print("Running Amazon scraper locally...")
   print("Query:", query)
```

```
SEARCH PRODUCTS URL = "https://www.amazon.com.br/s?k="
    PROXY = "http://Eiprice-cc-any:DQSXomtV7qri@qw.ntnt.io:5959"
    HEADERS = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '+')}"
    response = requests.get(url, headers=HEADERS, proxies={PROXY})
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "div", class = "s-main-slot s-result-list s-search-results sq-row"
    products = []
    for product section in product list:
        try:
            product = product section.find(
                "div", class = "a-section aok-relative s-image-square-
aspect"
            descricao = product.find("img", class ="s-image")["alt"]
            link section = product section.find(
                "a", class ="a-link-normal s-no-outline"
            link = f"https://www.amazon.com.br{link section['href']}"
            products.append({"url": link, "description": descricao})
        except Exception as error:
            print("Erro ao buscar produto:", error)
            continue
    if most similar product := find most similar(query, products):
        print("Produto mais similar encontrado:")
        print(most similar product["url"])
    else:
        print("Nenhum produto similar encontrado.")
if name == "__main__":
    sample query = "COMPUTADOR GAMER 128GB RAM SSD HD 1TB NOVO"
    run amazon scraper local(sample query)
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper americanas.py
from datetime import datetime, timedelta
```

```
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
    "scraper americanas",
    default args=default args,
    description="Classificador de produtos Americanas",
    schedule interval="0 21 * * *",
)
nltk.download("punkt")
def americanas scraper(query):
    query tokens = set(nltk.word tokenize(query.lower()))
    \max intersection = 0
    most similar product = None
    SEARCH PRODUCTS URL = "https://www.americanas.com.br/busca/"
    MIN INTERSECTION = 2
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7qri@gw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '-')}"
    response = requests.get(url, headers=headers, proxies=proxy)
    base url = "https://www.americanas.com.br"
    soup = BeautifulSoup(response.content, "html.parser")
```

```
product list = soup.find all("div", class = "grid StyledGrid-sc-
1man2hx-0")
   for produto in product list:
       try:
           for a in soup.find all("a", class ="inStockCard Link-sc-
1 ngt5zo-1 JOEpk"):
               link = a["href"].split(" ")[0]
               url = base url + link
               descricao = a.find(
                  "h3", class = "product-name Name-sc-1shovj0-0 gUjFDF"
               ).text
               product tokens =
set(nltk.word tokenize(descricao.lower()))
               intersection =
len(query tokens.intersection(product tokens))
               if intersection > max intersection:
                  max intersection = intersection
                  most similar product = {"url": url, "alt text":
descricao}
       except Exception as error:
           print("======="")
           print(f"Erro ao buscar produto: {produto}")
           print(error)
           print("========"")
           continue
   if most similar product:
       print("Produto mais similar encontrado:")
       print(most similar product["url"])
       return most similar product["url"]
   else:
       print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print("======="")
       print(resultado[5])
       slug = americanas scraper(unidecode(resultado[5]))
       print(slug)
       print("======="")
       try:
```

```
cursor.execute(
               "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s, %s)",
                (ean, sku, id loja, atributo, status, slug),
       except Exception as error:
           print("========"")
           print(f"Erro ao inserir sku: {sku}")
           print(error)
           print("======="")
           continue
    connection.commit()
    connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper carrefour.py
import ssl
from datetime import datetime, timedelta
from urllib.parse import quote
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
try:
    create unverified https context = ssl. create unverified context
except AttributeError:
   pass
else:
    ssl. create default https context = create unverified https context
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
```

```
"retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
    "scraper carrefour",
    default args=default args,
    description="Classificador de produtos do Carrefour",
    schedule interval="0 21 * * *",
)
def carrefour scraper (query):
    query encoded = quote(query, safe="")
    query tokens = set(nltk.word tokenize(query.lower()))
    \max intersection = 0
    most similar product = None
    SEARCH_PRODUCTS_URL = "https://www.carrefour.com.br/busca/"
    MIN SIMILARITY = 0.6
    MIN INTERSECTION = 2
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7qri@gw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query encoded}"
    response = requests.get(url, headers=headers, proxies=proxy)
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "article",
        class ="vtex-product-summary-2-x-element pointer pt3 pb4 flex
flex-column h-100",
    href list = soup.find all(
        "a", class = "vtex-product-summary-2-x-clearLink h-100 flex flex-
column"
    )
    for product index, product in enumerate (product list):
        descricao = product.find(
            "img",
            class ="vtex-product-summary-2-x-imageNormal vtex-product-
summary-2-x-image",
        )["alt"]
        product tokens = set(nltk.word tokenize(descricao.lower()))
        intersection = len(query tokens.intersection(product tokens))
```

```
if intersection > max intersection:
          max intersection = intersection
          most similar product = {
              "url": href list[product index]["href"],
              "alt text": descricao,
   if most similar product:
       print("Produto mais similar encontrado:")
       print(most similar product)
       return most similar product["url"]
       print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print(resultado[5])
       slug = carrefour scraper(unidecode(resultado[5]))
       print(slug)
       print("======="")
       try:
           cursor.execute(
              "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s)",
              (ean, sku, id loja, atributo, status, slug),
       except Exception as error:
          print("======="")
          print(f"Erro ao inserir sku: {sku}")
          print(error)
          print("======="")
          continue
   connection.commit()
   connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
run_query
```

```
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper casasbahia.py
from datetime import datetime, timedelta
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
daq = DAG(
    "scraper casasbahia",
    default args=default args,
    description="Classificador de produtos da Casas Bahia",
    schedule interval="0 21 * * *",
)
BASE URL = "https://www.casasbahia.com.br"
\overline{\text{MIN INTERSECTION}} = 2
def casas bahia scraper (query):
    query tokens = set(nltk.word tokenize(query.lower()))
    \max intersection = 0
    most similar product = None
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7gri@gw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{BASE URL}/{query.replace(' ', '-')}/b"
```

```
response = requests.get(url, headers=headers, proxies=proxy)
   soup = BeautifulSoup(response.content, "html.parser")
   product list = soup.find all("div", class ="sc-18eb4054-0 dPlWZd")
   for product in product list:
       try:
           descricao = product.find("img", class = "sc-d2913f46-0
htwjrw")["alt"]
           link = product.find("a", class = "sc-2b5b888e-1
cflebu") ["href"]
           product tokens = set(nltk.word tokenize(descricao.lower()))
           intersection = len(query tokens.intersection(product tokens))
           if intersection > max intersection:
               max intersection = intersection
               most_similar_product = {"url": link, "alt_text":
descricao}
       except Exception as error:
           print("========"")
           print(f"Erro ao buscar produto: {product}")
           print(error)
           print("Nenhum produto similar encontrado.")
           print("========")
           continue
   if most similar product:
       print("Produto mais similar encontrado:")
       print(most similar product["url"])
       return most similar product["url"]
   else:
       print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print("========"")
       print(resultado[5])
       slug = casas bahia scraper(unidecode(resultado[5]))
       print(slug)
       print("======="")
       try:
           cursor.execute(
```

```
"INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s)",
                (ean, sku, id loja, atributo, status, slug),
           )
       except Exception as error:
           print("========"")
           print(f"Erro ao inserir sku: {sku}")
           print(error)
           print("========"")
           continue
    connection.commit()
    connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
FILEPATH: C:\Users\andwe\Downloads\classification-scrapers\scraper_cec.py
from datetime import datetime, timedelta
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
# DADOS DE QUANDO E COMO AIRFLOW VAI SER EXECUTADO
default args = {
   "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
   "scraper cec",
   default args=default args,
   description="Classificador de produtos do CEC",
   schedule interval="0 21 * * *",
)
```

```
# SCRAPER
def cec scraper(query):
   query tokens = set(nltk.word tokenize(query.lower()))
   \max intersection = 0
   most similar product = None
   SEARCH PRODUCTS URL = "https://www.cec.com.br"
   MIN SIMILARITY = 0.6
   MIN INTERSECTION = 2
   proxy = {"http": "http://Eiprice-cc-
any:onQoK56mACxA@gw.ntnt.io:5959"}
   headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
       "Accept-Language": "en-US, en; q=0.5",
   }
   url = f"{SEARCH PRODUCTS URL}{'/busca?q='}{query.replace(' ',
'%20')}{'&ranking=2&topsearch=1'}"
   response = requests.get(url, headers=headers, proxies=proxy)
   soup = BeautifulSoup(response.content, "html.parser")
   product list = soup.find all(
       "div",
       class ="products",
   for product in product list:
       try:
           link =
f"{SEARCH PRODUCTS URL}{product.find('a',class ='photo',)['href']}"
           descricao = product.find(
               "a",
               class ="photo",
           )["title"]
           product tokens = set(nltk.word tokenize(descricao.lower()))
           intersection = len(query tokens.intersection(product tokens))
           if intersection > max intersection:
               max intersection = intersection
               most similar product = {"url": link, "alt text":
descricao}
       except Exception as error:
           print("========"")
           print(f"Erro ao buscar produto: {product}")
           print(error)
           print("======="")
           continue
   if most similar product:
```

```
print("Produto mais similar encontrado:")
       print(most similar product["url"])
       return most similar product["url"]
   else:
       print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id_loja, atributo, status, descricao = resultado
       print("========"")
       print(resultado[5])
       slug = cec scraper(unidecode(resultado[5]))
       print(slug)
       print("======="")
       try:
           cursor.execute(
               "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s, %s)",
              (ean, sku, id loja, atributo, status, slug),
           )
       except Exception as error:
           print("======="")
           print(f"Erro ao inserir sku: {sku}")
           print(error)
           print("======="")
           continue
   connection.commit()
   connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper leroy merlin.py
from datetime import datetime, timedelta
import nltk
import requests
```

```
from airflow import DAG
from bs4 import BeautifulSoup
# from airflow.operators.python operator import PythonOperator
# from airflow.providers.postgres.hooks.postgres import PostgresHook
from unidecode import unidecode
nltk.download("punkt")
# DADOS DE QUANDO E COMO AIRFLOW VAI SER EXECUTADO
# default args = {
      "owner": "airflow",
#
      "depends on past": False,
#
      "start date": datetime(2023, 5, 2),
#
      "email": ["airflow@example.com"],
      "email on failure": False,
#
      "email on retry": False,
#
      "retries": 1,
#
      "retry delay": timedelta(minutes=5),
# }
\# dag = DAG(
      "scraper cec",
#
      default args=default args,
      description="Classificador de produtos do CEC",
      schedule interval="0 21 * * *",
# )
# SCRAPER
def leroy scraper(query):
    query tokens = set(nltk.word tokenize(query.lower()))
    \max intersection = 0
    most similar product = None
    SEARCH PRODUCTS URL = "https://www.leroymerlin.com.br/search?term="
    MIN SIMILARITY = 0.6
    MIN INTERSECTION = 2
    proxy = {"http": "http://Eiprice-cc-
any:onQoK56mACxA@qw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{'/busca?q='}{query.replace(' ',
'%20') } { '&searchType=default' } "
    print(url)
    response = requests.get(url, headers=headers, proxies=proxy)
    print(response.status code)
    soup = BeautifulSoup(response.content, "html.parser")
```

```
product = soup.find all("script", {"type": "application/ld+json"})
   print(product)
   # product list = soup.find all(
         "div",
         class_="products",
   #
   # )
   # for product in product list:
         try:
   #
             link =
f"{SEARCH PRODUCTS URL}{product.find('a',class ='photo',)['href']}"
             descricao = product.find(
   #
                 "a",
                 class ="photo",
             )["title"]
             sku = link.split("produto=")[1]
             product tokens = set(nltk.word tokenize(descricao.lower()))
             intersection =
len(query_tokens.intersection(product tokens))
             if intersection > max intersection:
    #
   #
                 max intersection = intersection
   #
                 most similar product = {"url": link, "alt text":
descricao}
        except Exception as error:
             print("======="")
             print(f"Erro ao buscar produto: {product}")
             print(error)
             print("======="")
             continue
   # if most similar product:
         print("Produto mais similar encontrado:")
         print(most similar product["url"])
         return most similar product["url"]
   # else:
         print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print("======"")
       print(resultado[5])
       slug = cec scraper(unidecode(resultado[5]))
       print(slug)
```

```
print("======="")
       try:
           cursor.execute(
               "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s)",
               (ean, sku, id loja, atributo, status, slug),
           )
       except Exception as error:
           print("======="")
           print(f"Erro ao inserir sku: {sku}")
           print(error)
           print("======="")
           continue
   connection.commit()
   connection.close()
leroy scraper("PLACA DE VIDEO")
# run query = PythonOperator(
     task id="run query",
#
     python callable=executar consulta,
     dag=dag,
# )
# run query
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper magalu.py.py
from datetime import datetime, timedelta
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
default args = {
   "owner": "airflow",
   "depends on past": False,
    "start date": datetime(2023, 5, 2),
   "email": ["airflow@example.com"],
   "email on failure": False,
   "email on retry": False,
   "retries": 1,
   "retry delay": timedelta(minutes=5),
}
daq = DAG(
   "scraper magalu",
```

```
default args=default args,
    description="Classificador de produtos Magalu",
    schedule interval="0 21 * * *",
)
def magalu scraper (query):
    query tokens = set(nltk.word tokenize(query.lower()))
    max intersection = 0
    most similar product = None
    SEARCH PRODUCTS URL = "https://www.magazineluiza.com.br/busca/"
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7qri@qw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '+')}"
    try:
        response = requests.get(url, headers=headers, proxies=proxy)
        soup = BeautifulSoup(response.content, "html.parser")
        product list = soup.find all("div", class ="sc-eDvSVe koHJnT")
        for produto in product list:
            for a in soup.find all("li", class ="sc-ibdxON fwviCj"):
                link = a.find("a")["href"]
                descricao = a.find("a")["title"]
                product tokens =
set(nltk.word tokenize(descricao.lower()))
                intersection =
len(query tokens.intersection(product tokens))
                if intersection > max intersection:
                    max intersection = intersection
                    most similar product = {"url": link, "alt text":
descricao}
    except Exception as error:
        print("Erro ao buscar produto:", error)
    if most similar product:
        print("Produto mais similar encontrado:")
        print(most similar product["url"])
        return most similar product["url"]
        print("Nenhum produto similar encontrado.")
```

```
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print("======"")
       print(resultado[5])
       trv:
           slug = magalu scraper(unidecode(resultado[5]))
           print(slug)
           print("======="")
           cursor.execute(
               "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s)",
               (ean, sku, id loja, atributo, status, slug),
           )
       except Exception as error:
           print("======="")
           print(f"Erro ao inserir sku: {sku}")
           print(error)
           print("========"")
           continue
   connection.commit()
   connection.close()
run query = PythonOperator(
   task id="run query",
   python callable=executar consulta,
   dag=dag,
)
run query
FILEPATH: C:\Users\andwe\Downloads\classification-
scrapers\scraper mercadolivre.py
from datetime import datetime, timedelta
import nltk
import requests
from airflow import DAG
from airflow.operators.python operator import PythonOperator
from airflow.providers.postgres.hooks.postgres import PostgresHook
from bs4 import BeautifulSoup
from unidecode import unidecode
nltk.download("punkt")
```

```
default args = {
    "owner": "airflow",
    "depends on past": False,
    "start date": datetime(2023, 5, 2),
    "email": ["airflow@example.com"],
    "email on failure": False,
    "email on retry": False,
    "retries": 1,
    "retry delay": timedelta(minutes=5),
}
dag = DAG(
    "scraper mercadolivre",
    default args=default args,
    description="Classificador de produtos do Mercado Livre",
    schedule interval="0 21 * * *",
)
def mercado livre scraper(query):
    query tokens = set(nltk.word tokenize(query.lower()))
    \max intersection = 0
    most similar product = None
    SEARCH PRODUCTS URL = "https://lista.mercadolivre.com.br/"
    MIN SIMILARITY = 0.6
    MIN INTERSECTION = 2
    proxy = {"http": "http://Eiprice-cc-
any:DQSXomtV7qri@gw.ntnt.io:5959"}
    headers = {
        "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110
Safari/537.36",
        "Accept-Language": "en-US, en; q=0.5",
    url = f"{SEARCH PRODUCTS URL}{query.replace(' ', '-')}"
    response = requests.get(url, headers=headers, proxies=proxy)
    soup = BeautifulSoup(response.content, "html.parser")
    product list = soup.find all(
        "section",
        class ="ui-search-results ui-search-results--without-disclaimer
shops search-results",
    for product in product list:
            link = product.find(
                "a",
                class ="ui-search-item group element shops items-
group-details ui-search-link",
```

```
) ["href"]
           descricao = product.find(
              "a",
              class ="ui-search-item group element shops items-
group-details ui-search-link",
           ) ["title"]
           product tokens = set(nltk.word tokenize(descricao.lower()))
           intersection = len(query tokens.intersection(product tokens))
           if intersection > max intersection:
              max intersection = intersection
              most similar product = {"url": link, "alt text":
descricao}
       except Exception as error:
          print("======="")
          print(f"Erro ao buscar produto: {product}")
          print(error)
           print("========"")
           continue
   if most similar product:
       print("Produto mais similar encontrado:")
       print(most similar product["url"])
       return most similar product["url"]
   else:
       print("Nenhum produto similar encontrado.")
def executar consulta():
   connection hook = PostgresHook(postgres conn id="eiprice-dev")
   connection = connection hook.get conn()
   cursor = connection.cursor()
   cursor.execute(
       "SELECT ean, sku, id loja, atributo, status, descricao FROM
kabum.produto carga;"
   resultados = cursor.fetchall()
   for resultado in resultados:
       ean, sku, id loja, atributo, status, descricao = resultado
       print("======"")
       print(resultado[5])
       slug = mercado livre scraper(unidecode(resultado[5]))
       print(slug)
       print("======="")
       try:
           cursor.execute(
              "INSERT INTO kabum.sku (ean, cod ref, id loja, atributo,
status, slug) VALUES (%s, %s, %s, %s, %s, %s)",
              (ean, sku, id loja, atributo, status, slug),
       except Exception as error:
           print("======="")
           print(f"Erro ao inserir sku: {sku}")
```

```
print(error)
    print("============"")
    continue
connection.commit()
connection.close()

run_query = PythonOperator(
    task_id="run_query",
    python_callable=executar_consulta,
    dag=dag,
)

run_query
```