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In [1]: import pandas as pd
           import numpy as np
           import os
           from sqlalchemy import create_engine
 In [2]: #Reading Excel File using pandas
           olist_database = pd.ExcelFile('olist business database.xlsx')
           olist_database
           <pandas.io.excel._base.ExcelFile at 0x21973f83eb0>
 Out[2]:
 In [3]: #Listing out all sheets in the Excel file
           olist_database.sheet_names
Out[3]: ['olist_Customer_table'
            'olist_geolocation_table',
            'olist order items table'
            'olist order payment table',
            'olist_order_reviews_table',
            'olist orders table'
            'olist_products_table',
            'olist_sellers_table',
            'olist_product_category']
 In [4]: #Creating extract function for ETL process
           def extract_from_excel_sheet(excelfilename):
                query = olist_database.parse(excelfilename)
                return query
           #Writing load function for ETL process
 In [5]:
           def load to sql server(df, tablename, db engine):
                return df.to sql(tablename, db engine, if exists = 'replace', index = False)
           #Putting ETL all together, this code extracts tables/sheets from the Excel file and parses the tables to SQL
 In [6]:
           #where the database relationships will be established.
           def extract_and_load(excelfilename, tablename):
                df = extract from excel sheet(excelfilename)
                load_to_sql_server(df, tablename, db_engine)
           #Getting connection details to SQL server using environemtal variables
 In [7]:
           SERVER = os.environ.get('MS SQL SERVER NAME')
           DRIVER = os.environ.get('MS SQL SERVER DRIVER')
           database_name = 'olist_db'
 In [8]: #Estalishing connection with database
           connection = f'mssql://{SERVER}/{database name}?driver={DRIVER}'
In [10]: db_engine = create_engine(connection)
In [11]: #Finally lets load all tables into SQL SERVER
           extract_and_load('olist_Customer_table', 'staging_olist_Customer_table')
          extract_and_load('olist_geolocation_table', 'staging_olist_geolocation_table')
extract_and_load('olist_order_items_table', 'staging_olist_order_items_table')
extract_and_load('olist_order_payment_table', 'staging_olist_order_payment_table')
extract_and_load('olist_order_reviews_table', 'staging_olist_order_reviews_table')
           extract_and_load('olist_orders_table', 'staging_olist_orders_table')
extract_and_load('olist_products_table', 'staging_olist_products_table')
extract_and_load('olist_sellers_table', 'staging_olist_sellers_table')
           extract and load('olist product category', 'staging olist product category')
In [12]: extract and load('olist products table', 'staging olist products table')
           connection.close()
In [13]:
In [14]:
In [15]:
In [16]:
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In [ ]:

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