m08 01 insert data

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1 Curso de Python do DS ao DEV

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- 2 Modulo 08 SQL
- 3 Inserir dados em Tabela do Banco de Dados
- 3.1 1.0. Connect to database

```
[13]: import pandas as pd
    from sqlalchemy import create_engine

[14]: db = create_engine( 'sqlite:///db_olist.sqlite', echo=False )
    conn = db.connect()
```

3.2 2.0. Loading dataset

```
[16]: # dataset
      df_customer = pd.read_csv( 'olist/olist_customers_dataset.csv' )
      schema_customer = """
      CREATE TABLE customer(
          customer_id
                                      TEXT,
          customer_unique_id
                                      TEXT,
          customer_zip_code_prefix
                                      INTEGER,
          customer_city
                                      TEXT,
          customer_state
                                      TEXT
      # crate schema
      #conn.execute( schema_customer )
      # insert data into table
      df_customer.to_sql( 'customer', con=conn, if_exists='append', index=False )
```

```
[33]: # dataset
      df_geolocation = pd.read_csv( 'olist/olist_geolocation_dataset.csv' )
      schema_geolocation = """
      CREATE TABLE geolocation(
          geolocation_zip_code_prefix
                                         INTEGER,
          geolocation_lat
                                         REAL,
          geolocation_lng
                                         REAL,
          geolocation_city
                                         TEXT,
          geolocation_state
                                         TEXT
      0.000
      # crate schema
      conn.execute( schema_geolocation )
      # insert data into table
      df_geolocation.to_sql( 'geolocation', con=conn, if_exists='append', index=False_
       →)
[37]: # dataset
      df_order_items = pd.read_csv( 'olist/olist_order_items_dataset.csv' )
      schema_order_items = """
      CREATE TABLE order_items(
          order_id
                                 TEXT,
          order_item_id
                                 INTEGER,
          product id
                                 TEXT,
          seller_id
                                 TEXT,
          shipping_limit_date
                                 TEXT,
         price
                                 REAL,
         freight_value
                                 REAL
      .....
      # crate schema
      conn.execute( schema_order_items )
      # insert data into table
      df_order_items.to_sql( 'order_items', con=conn, if_exists='append', index=False_
       →)
[41]: # dataset
      df_order_payments = pd.read_csv( 'olist/olist_order_payments_dataset.csv' )
      schema_order_payments = """
      CREATE TABLE order_payments(
          order_id
                                   TEXT,
                                   INTEGER,
          payment_sequential
```

```
payment_type
                                   TEXT,
                                   INTEGER,
          payment_installments
          payment_value
                                   REAL
      0.00
      # crate schema
      conn.execute( schema_order_payments )
      # insert data into table
      df_order_payments.to_sql( 'order_payments', con=conn, if_exists='append',_
       →index=False )
[45]: # dataset
      df_order_reviews = pd.read_csv( 'olist/olist_order_reviews_dataset.csv' )
      schema_order_reviews = """
      CREATE TABLE order_reviews(
          review_id
                                      TEXT,
          order_id
                                      TEXT,
          review_score
                                      INTEGER,
          review_comment_title
                                      TEXT,
                                      TEXT.
          review_comment_message
          review_creation_date
                                      TEXT,
         review_answer_timestamp
                                      TEXT
      )
      11 11 11
      # crate schema
      conn.execute( schema_order_reviews )
      # insert data into table
      df_order_reviews.to_sql( 'order_reviews', con=conn, if_exists='append',__
       →index=False )
[49]: # dataset
      df_orders = pd.read_csv( 'olist/olist_orders_dataset.csv' )
      schema_orders = """
      CREATE TABLE orders(
          order_id
                                            TEXT,
                                            TEXT.
          customer_id
          order_status
                                            TEXT,
          order_purchase_timestamp
                                            TEXT,
          order_approved_at
                                            TEXT,
          order_delivered_carrier_date
                                            TEXT,
          order_delivered_customer_date
                                            TEXT,
          order_estimated_delivery_date
                                            TEXT
```

```
0.00
      # crate schema
      conn.execute( schema_orders )
      # insert data into table
      df_orders.to_sql( 'orders', con=conn, if_exists='append', index=False )
[53]: # dataset
      df_products = pd.read_csv( 'olist/olist_products_dataset.csv' )
      schema_products = """
      CREATE TABLE products(
          product_id
                                        TEXT,
          product_category_name
                                        TEXT,
          product_name_lenght
                                        REAL,
          product_description_lenght
                                        REAL,
          product_photos_qty
                                        REAL,
                                        REAL,
          product_weight_g
          product_length_cm
                                        REAL,
          product_height_cm
                                        REAL,
          product_width_cm
                                        REAL
      11 11 11
      # crate schema
      conn.execute( schema_products )
      # insert data into table
      df_products.to_sql( 'products', con=conn, if_exists='append', index=False )
[57]: # dataset
      df_sellers = pd.read_csv( 'olist/olist_sellers_dataset.csv' )
      schema_sellers = """
      CREATE TABLE sellers(
          seller_id
                                    TEXT,
          seller_zip_code_prefix INTEGER,
          seller city
                                    TEXT,
          seller_state
                                    TEXT
      )
      11 11 11
      # crate schema
      conn.execute( schema_sellers )
      # insert data into table
      df_sellers.to_sql( 'sellers', con=conn, if_exists='append', index=False )
```

3.3 3.0. Check Database

```
[62]:
                           name
                       customer
      0
                    geolocation
      1
      2
                    order_items
      3
                 order_payments
      4
                  order_reviews
      5
                         orders
      6
                       products
      7
                        sellers
      8 product_category_name
```