SPRAWOZDANIE NR. 12

Tworzenie bazy danych w SQLAlchemy

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```python
from sqlalchemy import create_engine
from sqlalchemy.ext.declarative import declarative_base

from sqlalchemy import create_engine
from sqlalchemy.ext.declarative import declarative_base
from sqlalchemy import Column, Integer, String, Date, VARCHAR, Float,
SmallInteger, Text
from sqlalchemy import ForeignKey

db_string = "postgresql://postgres:Wiemcopije201@localhost:5432/postgres"

engine = create_engine(db_string)

Base = declarative_base()


from sqlalchemy import ForeignKey




class users(Base):
    __tablename__ = 'users'
    id = Column(Integer, primary_key=True)
    email=Column(VARCHAR,nullable = False)


class countries(Base):
    __tablename__='countries'
    id=Column(Integer,primary_key=True)
    country_code=Column(VARCHAR)
    name=Column(VARCHAR)

class cities(Base):
```

```python
    __tablename__='cities'
    id=Column(Integer,primary_key=True)
    country_id=Column(Integer, ForeignKey('countries.id'))
    name=Column(VARCHAR)

class hosts(Base):
    __tablename__ = 'hosts'
    id=Column(Integer,primary_key=True)
    user_id=Column(Integer, ForeignKey('users.id'))


class places(Base):
    __tablename__='places'
    id=Column(Integer,primary_key=True)
    host_id=Column(Integer, ForeignKey('hosts.id'))
    city_id=Column(Integer, ForeignKey('cities.id'))
    address=Column(VARCHAR)


class bookings(Base):
    __tablename__ = 'bookings'
    id=Column(Integer,primary_key=True)
    user_id=Column(Integer, ForeignKey('users.id'))
    place_id=Column(Integer,ForeignKey('places.id'))
    start_date=Column(Date)
    end_date=Column(Date)
    price_per_night=Column(Float)
    nums_nights=Column(Integer)

class reviews(Base):
    __tablename__ = 'reviews'
    id=Column(Integer,primary_key=True)
    booking_id=Column(Integer, ForeignKey('bookings.id'))
    rating=Column(SmallInteger)
    review_body=Column(Text)

    # Base.metadata.tables.keys()
    Base.metadata.create_all(engine)
```

countries
👁
◆ public
▦ countries
🔑 id integer
🔖 country_code character var
ying
🔖 name character varying

users
👁
◆ public
▦ users
🔑 id integer
🔖 email character varying

cities
👁
◆ public
▦ cities
🔑 id integer
🔑 country_id integer
🔖 name character varying

hosts
👁
◆ public
▦ hosts
🔑 id integer
🔑 user_id integer

reviews
👁
◆ public
▦ reviews
🔑 id integer
🔑 booking_id integer
🔖 rating smallint
🔖 review_body text

places
👁
◆ public
▦ places
🔑 id integer
🔑 host_id integer
🔑 city_id integer
🔖 address character varying

bookings
👁
◆ public
▦ bookings
🔑 id integer
🔑 user_id integer
🔑 place_id integer
🔖 start_date date
🔖 end_date date
🔖 price_per_night double pre
cision
🔖 nums_nights integer