FIAP

PAULISTA

Arthur Tavares RM:554970, Henrique Francisco RM:558062 e Willian Moreira RM:555152

Energy Now- Global Solution: Python

**SÃO PAULO**

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# 1 MODELO RELACIoNAL E SQL

### 1.1 CODIGO SQL

DROP TABLE t\_gerenciamento;

DROP TABLE t\_preco\_KWH;

DROP TABLE t\_user;

CREATE TABLE T\_USER (

nome VARCHAR(50) NOT NULL,

cep VARCHAR(9) NOT NULL,

cpf VARCHAR(15)NOT NULL,

email VARCHAR(150) PRIMARY KEY,

senha VARCHAR(150) NOT NULL

);

CREATE TABLE T\_PRECO\_KWH (

preco\_kwh NUMBER(3,2) NOT NULL,

uf VARCHAR(2) PRIMARY KEY

);

CREATE TABLE T\_GERENCIAMENTO (

id INTEGER GENERATED BY DEFAULT AS IDENTITY,

data DATE NOT NULL,

kwh NUMBER NOT NULL,

email VARCHAR(150) NOT NULL,

uf VARCHAR(2) NOT NULL,

CONSTRAINT fk\_email FOREIGN KEY (email) REFERENCES T\_USER(email),

CONSTRAINT fk\_uf FOREIGN KEY (uf) REFERENCES T\_PRECO\_KWH(uf)

);

-- Inserindo um registro na tabela T\_USER

INSERT INTO t\_user (nome, cep, email, senha)

VALUES ('Joï¿½o Silva', '123456789', 'joao@email.com', 'senha123');

-- Inserindo um registro na tabela T\_PRECO\_KWH

INSERT INTO T\_PRECO\_KWH (preco\_kwh, uf)

VALUES (0.75, 'SP');

INSERT INTO T\_GERENCIAMENTO (data, kwh, email, uf)

VALUES (TO\_DATE('11-2024', 'MM-YYYY'), 150, 'joao@email.com', 'SP');

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('AC', 0.95);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('AL', 0.87);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('AP', 1.02);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('AM', 0.89);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('BA', 0.88);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('CE', 0.86);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('DF', 0.80);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('ES', 0.84);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('GO', 0.83);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('MA', 0.92);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('MT', 0.85);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('MS', 0.81);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('MG', 0.82);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('PA', 0.90);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('PB', 0.91);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('PR', 0.78);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('PE', 0.89);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('PI', 0.88);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('RJ', 0.95);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('RN', 0.86);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('RS', 0.77);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('RO', 0.93);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('RR', 1.05);

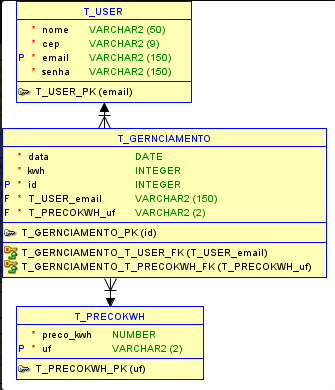
INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('SC', 0.79);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('SP', 0.75);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('SE', 0.87);

INSERT INTO T\_PRECO\_KWH (uf, preco\_kwh) VALUES ('TO', 0.91);

### 1.2 Modelagem Lógica



# Link do vídeo

<https://youtu.be/EGjW2nBxnvk>