**sql queries are**

CREATE TABLE product (

id SERIAL PRIMARY KEY,

name TEXT NOT NULL,

description TEXT,

price DECIMAL(10, 2) NOT NULL

);

CREATE TABLE user (

id SERIAL PRIMARY KEY,

username TEXT NOT NULL,

password TEXT NOT NULL

);

CREATE TABLE cart\_item (

id SERIAL PRIMARY KEY,

user\_id INTEGER REFERENCES user(id),

product\_id INTEGER REFERENCES product(id),

quantity INTEGER NOT NULL,

created\_at TIMESTAMP DEFAULT NOW(),

CONSTRAINT fk\_cart\_item\_user

FOREIGN KEY (user\_id)

REFERENCES user(id)

ON DELETE CASCADE,

CONSTRAINT fk\_cart\_item\_product

FOREIGN KEY (product\_id)

REFERENCES product(id)

ON DELETE CASCADE,

CONSTRAINT uq\_cart\_item\_user\_product

UNIQUE (user\_id, product\_id)

);

CREATE TABLE order (

id SERIAL PRIMARY KEY,

user\_id INTEGER REFERENCES user(id),

total DECIMAL(10, 2) NOT NULL,

status TEXT NOT NULL,

created\_at TIMESTAMP DEFAULT NOW(),

CONSTRAINT fk\_order\_user

FOREIGN KEY (user\_id)

REFERENCES user(id)

ON DELETE CASCADE

);

CREATE TABLE order\_item (

id SERIAL PRIMARY KEY,

order\_id INTEGER REFERENCES order(id),

product\_id INTEGER REFERENCES product(id),

quantity INTEGER NOT NULL,

price DECIMAL(10, 2) NOT NULL,

CONSTRAINT fk\_order\_item\_order

FOREIGN KEY (order\_id)

REFERENCES order(id)

ON DELETE CASCADE,

CONSTRAINT fk\_order\_item\_product

FOREIGN KEY (product\_id)

REFERENCES product(id)

ON DELETE CASCADE

);

**-- Indexes**

CREATE INDEX idx\_cart\_item\_user\_id ON cart\_item(user\_id);

CREATE INDEX idx\_cart\_item\_product\_id ON cart\_item(product\_id);

CREATE INDEX idx\_order\_user\_id ON "order"(user\_id);

CREATE INDEX idx\_order\_item\_order\_id ON order\_item(order\_id);

CREATE INDEX idx\_order\_item\_product\_id ON order\_item(product\_id);