clean_db

Clean all data from specified table in postgres.

```
clean_db(postgres, database):
        initialize query to delete database from postgres
        execute query with postgres
```

insert_visitor_data

Insert _id values into the visitor table in postres.

```
insert_visitor_data(postgres, visitor_list, clear = false):
        if clear:
                clean_db(visitor)

        for x in length of visitor_list:
                id = get _id from visitor_list[x]
                initialize query to load id into visitor postgres database
                execute query with postgres
```

insert_product_data

Insert _id and selling_price values into the product table in postgres.

```
insert_product_data(postgres, product_list, clear = false):
        if clear:
                clean_db(product)

        for x in length of product_list:
                product_id = get _id from product_list[x]

                initialize price to -1

                if product_list[x] has price:
                        product_price = get price from product_list[x]
                        if product_price has selling_price:
                                selling_price = get selling_price from product_price

                initialize query to load id and selling_price into product postgres database

                execute query with postgres
```

Psuedo code voor opdracht 1: Document Store naar Relationele Database

insert_product_visitor_similars_data

Insert the visitor's _id, and all the similar products from its recommendations, and load them into the product_visitor_similars table in postgres

```
insert_product_visitor_similars_data(postgres, visitor_list, clear = false):
        if clear:
                clean_db(product_visitor_similars)

        for x in length of visitor_list:
                visitor_id = get _id from visitor_list[x]

                if visitor_list[x] has recommendations:
                        visitor_recommendation_list = get similars from recommendations in visitor_list[x]

                        for y in length of visitor_recommendation_list:
                                product_id = visitor_recommendation_list[y]
                                initialize query to load product_id and visitor_id into…
                                        …product_visitor_similars postgres database
```

main

```
connect to postgres
connect to mongodb

clear all databases with clean_db

initialize product_list with data from mongodb product collection
initialize visitor_list with data from mongodb visitor collection

insert_product_data(postgres, product_list)
insert_visitor_data(postgres, visitor_list)
insert_product_visitor_similars_data(postgres, visitor_list)
```

Onderbouwing

Voor nu heb ik ervoor gekozen slechts een paar variabelen over te zetten naar de relationele database. De rede hiervoor is om tijd te besparen, gezien het met deze code al vrij lang duurt voordat alles in de database is geladen.

Een herbruikbare functie, waarbij gespecifieerd kan worden exact welke variabelen van de MongoDB collectie je in de relationele database wilt laden, is wellicht mogelijk, maar gezien de specifieke errors en methodes die sommige variabelen eisen heb ik ervoor gekozen dat nu nog niet te doen.

Database opzet

product_visitor_similars

🔑 visitor_id	varchar(255)
🔑 product_id	varchar(255)

product

🔑 _id	varchar(255)	
price_selling_price	int4	N

visitor

🔑 _id	varchar(255)