

## Pseudo code voor opdracht 1: Document Store naar Relationele Database

### 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 postgres.

```
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
```

## 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)
```