We are following Biswanath Giri's example. [1] About the tables:

- The Users document should contain the user's name, email, role, sizes of upper garments, lower garments and other garments, his shipping addresses and date\_created\_at. The Users document will be linked to the CartItems entity which will contain cart\_item\_id, cart\_item\_image, cart\_item\_price and cart\_item\_quantity. The Users document should be linked to the Orders document. The Users document should be linked to the ShippingAddresses entity which will have the shipping address id and the ...
- The Orders document should contain the order's id, the user's id, its status, shipping\_address and total\_price, date\_created\_at and date\_of\_arrival. It should be linked to the OrderItems entity which will contain the order\_item\_id, product\_id, image\_uri, user\_id and quantity.
- The Products document should contain information on each product such as its name, images, color, garment\_material, fit, specifications, supply\_type and date\_created\_at. It should be linked to the ProductItems entity that contains the sku, (inseam\_length, OR upper\_size\_number and upper\_size\_letter OR other\_size\_number and other\_size\_letter), current\_stock, total\_stock and quantity\_sold. The Products document should also be linked to the ProductImages entity that contains the product\_image\_ids and URIs of the respective product's images. The Products document should also be linked to the ProductReviews entity that contains the product\_review\_id, product\_review\_comment, date\_created\_at and product\_review\_rating of all the reviews that exist for that product. The Products document should also be linked to the CartItems document which will contain cart\_item\_id, cart\_item\_image, cart\_item\_price and cart\_item\_quantity.
- The Categories and Subcategories entities aren't going to have their own documents as these are single-valued attributes. So, even though they have a 1:N relationship with products (A category / subcategory can be had by N products), they aren't getting their own documents. A color can also be shared by many products. This doesn't mean that it gets its own document.
- The **UpperSizes**, **LowerSizes** and **OtherSizes** entities won't have their own documents since they are easier to store through embedding since they don't have an N relationship with any entity.

user_id date_created_at email password phone_number first_name	1:1, A user has 1 user_id.  1:1, A user has one date_created_at.  1:1, A user has 1 email.  1:1, A user has 1 password.  1:1, A user has 1 phone_number.  1:1. A user has one firstname.
email  password  phone_number  first_name	date_created_at.  1:1, A user has 1 email.  1:1, A user has 1 password.  1:1, A user has 1 phone_number.  1:1. A user has one
password phone_number first_name	1:1, A user has 1 password.  1:1, A user has 1 phone_number.  1:1. A user has one
phone_number first_name	1:1, A user has 1 phone_number.  1:1. A user has one
first_name	phone_number.  1:1. A user has one
last_name	1:1, A user has has one lastname
user_role	1:1, A user has one user_role.
upper_size_number	1:1, A user has one upper_size_number.
upper_size_letter	1:1, A user has one upper_size_letter.
lower_size_number	1:1, A user has one lower_size_number.
lower_size_letter	1:1, A user has one lower_size_letter.
others_size_number	1:1, A user has 1 others_size_number.
others_size_letter	1:1, A user has one others_size_letter.
email_comms_type	1:1, A user has one email_comms_type.
sms_comms	1:1, A user has one sms_comms.
SHIPPING_ADDRESS	1: 0 or N, A user can have 0 or N shipping addresses. An address belongs to 1 user.
ORDER	1:N, A user can have 1 or N orders. An order belongs to 1 user.
	upper_size_number  upper_size_letter  lower_size_number  lower_size_letter  others_size_number  others_size_letter  email_comms_type  sms_comms  SHIPPING_ADDRESS

Orders	order_id	1:1. An order has only 1 order_id.
	ORDER_ITEM	1: 1 or N, An order can have 1 or N order_items.
	order_status	1:1, An order can have one order_status.
	total_price	1:1, An order has one total_price.
	date_created_at	1:1, An order is created at a unique date.
	date_of_arrival	1:1, An order arrives at a particular date.
	shipping_address	1:1, An order can have 1 shipping address.
OrderItems	order_item_id	1:1, An order_item has an id.
	order_item_price	1:1, An order_item has 1 price.
	order_item_quantity	1:1, An order item has 1 quantity.
	order_item_image_uri	1:1, An order item has 1 image.
	PRODUCT	1:1, An order item IS 1 product. However, 1 order can have N products. Since we can't put product_id in the Orders table (there, it can't form a unique row since order items aren't there), so we put it here.
Products	product_id	1:1, A product has 1 product_id.
	product_name	1:1, A product has 1 product_name.
	product_type	1:1, A product has 1 product_type.
	product_color	1:1, A product has 1 product_color.

	product_description	1:1, A product has 1 product_description.
	REVIEW	1:N, A product has N reviews. Each review belongs to 1 product.
	product_status	1:1, A product has one product_status.
	IMAGE	1:N, A product has N images. An image belongs to 1 product.
	product_category	1:1, A product has 1 product_category.
	product_subcategory	1:1, A product has 1 product_subcategory.
	product_fit	1:1, A product has 1 product_fit.
	product_specifications	1:1, A product has only 1 set of product_specifications.
	product_garment_weight	1:1, A product has only 1 product_garment_weight.
	product_material	1:1, A product has only 1 product_material.
	product_supply_type	1:1, A product has only 1 nsupply_type.
	PRODUCT_ITEMS	1: 0 or N. Each product will have 0 or more product items.
ProductItems	sku	1:1, Each product item has an sku.
	inseam_length	1: 0 or 1. Each product item has 0 or 1 inseam length.
	upper_size_number	1:0 or 1. Each product item has 0 or 1 upper_size_number.
	upper_size_letter	1:0 or 1. Each product_item has 0 or 1 upper_size_letter.
	other_size_number	1:0 or 1. Each product_item has 0 or 1 other_size_number.

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	other_size_letter	1:0 or 1. Each product_item has 0 or 1 other_size_letter.
	total_stock	1:1, Each product item has a total_stock.
	current_stock	1:1, Each product item has a current_stock.
	quantity_sold	1:1, Each product item has a quantity_sold.
ProductImages	image_id	1:1, A product image has only 1 image_id.
	image_uri	1:1, A product_image has only 1 image_uri.
	main_image	1:1, A product_image has 1 main_image.
CartItems	cart_item_id	1:1, A cart_item has 1 cart_item_id.
	cart_item_image	1:1, A cart_item has 1 cart_item_image.
	cart_item_price	1:1, A cart_item has 1 cart_item_price.
	cart_item_quantity	1:1, A cart_item has 1 cart_item_quantity.
ShippingAddress	street_number	1:0 or 1, An address has 0 or 1 street number
	building_name	1:0 or 1, An address has 0 or 1 building_name.
	Street_number_suffix [A, B, etc]	1:0 or 1, An address has 0 or 1 street_number_suffix.
	Street_type [Court, Avenue, Drive, etc.]	1:0 or 1, An address has 0 or 1 street_direction.
	Street_direction [N,W,E,S,SE,NE,NW,SW]	1:0 or 1
	Address_type_id [Room Number, Office Number, etc.]	1:0 or 1, An address has 0 or 1 address_type.
	City / Town	1: 0 or 1
	Postal Area (Eg - ZIP, Postcode, PIN, P.O. Box,	1:0 or 1

	etc.]	
	Country	1:0 or 1
Reviews	review_id	1:1, Each review has a review_id.
	review_comment	1:1, Each review has a review_comment.
	review_rating	1:1, Each review has a review_rating.

## **REFERENCES**

[1]

https://bgiri-gcloud.medium.com/designing-the-database-schema-for-a-new-e-commerce-pla tform-and-considering-factors-like-ec28d4fb81db