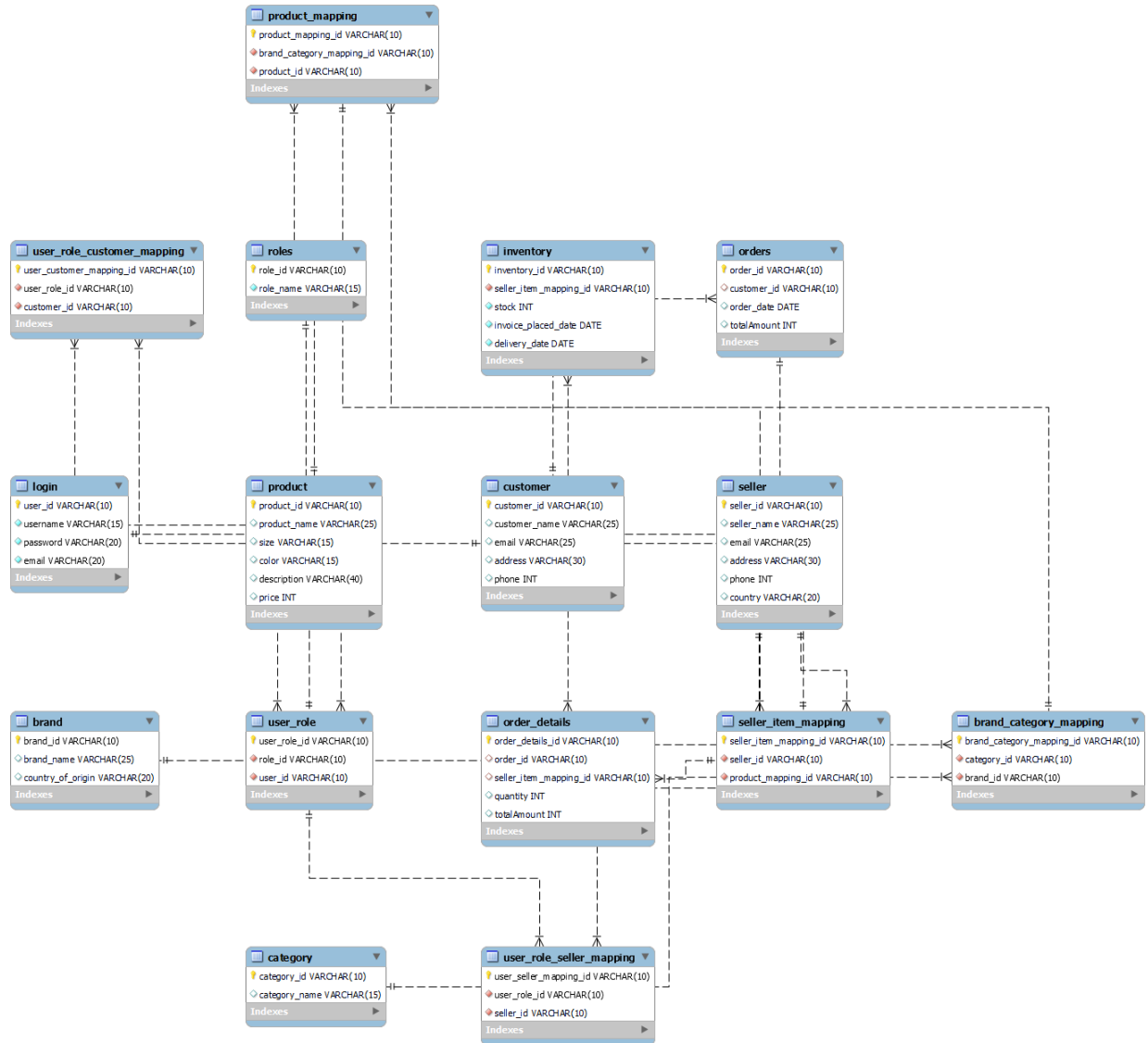# Experion ILP-Batch 1

## Task 2

Domain:- Apparel management(clothing)

Description:-

I've chosen this domain as this is one of the most surfed or visited across different platforms. And DBMS is relevant for creating a robust and scalable system for managing apparel-related data.

ER Diagram:-

**product_mapping**
- 🔑 product_mapping_id VARCHAR(10)
- 🔶 brand_category_mapping_id VARCHAR(10)
- 🔶 product_id VARCHAR(10)
- Indexes ▸

**user_role_customer_mapping**
- 🔑 user_customer_mapping_id VARCHAR(10)
- 🔶 user_role_id VARCHAR(10)
- 🔶 customer_id VARCHAR(10)
- Indexes ▸

**roles**
- 🔑 role_id VARCHAR(10)
- 🔷 role_name VARCHAR(15)
- Indexes ▸

**inventory**
- 🔑 inventory_id VARCHAR(10)
- 🔶 seller_item_mapping_id VARCHAR(10)
- 🔷 stock INT
- 🔷 invoice_placed_date DATE
- 🔷 delivery_date DATE
- Indexes ▸

**orders**
- 🔑 order_id VARCHAR(10)
- 🔶 customer_id VARCHAR(10)
- 🔷 order_date DATE
- 🔷 totalAmount INT
- Indexes ▸

**login**
- 🔑 user_id VARCHAR(10)
- 🔷 username VARCHAR(15)
- 🔷 password VARCHAR(20)
- 🔷 email VARCHAR(20)
- Indexes ▸

**product**
- 🔑 product_id VARCHAR(10)
- 🔷 product_name VARCHAR(25)
- 🔷 size VARCHAR(15)
- 🔷 color VARCHAR(15)
- 🔷 description VARCHAR(40)
- 🔷 price INT
- Indexes ▸

**customer**
- 🔑 customer_id VARCHAR(10)
- 🔷 customer_name VARCHAR(25)
- 🔷 email VARCHAR(25)
- 🔷 address VARCHAR(30)
- 🔷 phone INT
- Indexes ▸

**seller**
- 🔑 seller_id VARCHAR(10)
- 🔷 seller_name VARCHAR(25)
- 🔷 email VARCHAR(25)
- 🔷 address VARCHAR(30)
- 🔷 phone INT
- 🔷 country VARCHAR(20)
- Indexes ▸

**brand**
- 🔑 brand_id VARCHAR(10)
- 🔷 brand_name VARCHAR(25)
- 🔷 country_of_origin VARCHAR(20)
- Indexes ▸

**user_role**
- 🔑 user_role_id VARCHAR(10)
- 🔶 role_id VARCHAR(10)
- 🔶 user_id VARCHAR(10)
- Indexes ▸

**order_details**
- 🔑 order_details_id VARCHAR(10)
- 🔶 order_id VARCHAR(10)
- 🔶 seller_item_mapping_id VARCHAR(10)
- 🔷 quantity INT
- 🔷 totalAmount INT
- Indexes ▸

**seller_item_mapping**
- 🔑 seller_item_mapping_id VARCHAR(10)
- 🔶 seller_id VARCHAR(10)
- 🔶 product_mapping_id VARCHAR(10)
- Indexes ▸

**brand_category_mapping**
- 🔑 brand_category_mapping_id VARCHAR(10)
- 🔶 category_id VARCHAR(10)
- 🔶 brand_id VARCHAR(10)
- Indexes ▸

**category**
- 🔑 category_id VARCHAR(10)
- 🔷 category_name VARCHAR(15)
- Indexes ▸

**user_role_seller_mapping**
- 🔑 user_seller_mapping_id VARCHAR(10)
- 🔶 user_role_id VARCHAR(10)
- 🔶 seller_id VARCHAR(10)
- Indexes ▸

Login Table

| FieldName | Type | Constraint |
|---|---|---|
| user_id | varchar | PrimaryKey |
| username | varchar | |
| password | varchar | |
| email | varchar | |

This table contains the user login details with user_id as its primary key.

Roles Table

| FieldName | Type | Constraint |
|---|---|---|

| role_id | varchar | PrimaryKey |
|---------|---------|------------|
| role_name | varchar | |

This table contains the details of different roles(customer, seller, admin) with role_id as its primary key.

User_role Table

| FieldName | Type | Constraint |
|-----------|------|------------|
| user_role_id | varchar | PrimaryKey |
| role_id | varchar | ForeignKey |
| user_id | varchar | ForeignKey |

This table contains the user-role mapping details with user_role_id as its primary key, role_id and user_id as foreign keys.

User_role-customer mapping

| FieldName | Type | Constraint |
|-----------|------|------------|
| user-customer_mapping_id | varchar | PrimaryKey |
| user_role_id | varchar | ForeignKey |
| customer_id | varchar | ForeignKey |

This table contains the user_role - customer mapping details with user-customer_mapping_id as its primary key, user_role_id and customer_id as foreign keys.

User_role-seller mapping

| FieldName | Type | Constraint |
|-----------|------|------------|
| user-seller_mapping_ID | varchar | PrimaryKey |
| user_role_id | varchar | ForeignKey |
| seller_id | varchar | ForeignKey |

This table contains the user_role - sellermapping details with user-seller_mapping_id as its primary key, user_role_id and seller_id as foreign keys.

Customer Table

| FieldName | Type | Constraint |
| --- | --- | --- |
| customer_id | varchar | PrimaryKey |
| customer_name | varchar | Not null |
| email | varchar | Not null |
| address | varchar | Not null |
| phone | int | Not null |

This table contains the details of customers with customer_id as its primary key.

Seller Table

| FieldName | Type | Constraint |
| --- | --- | --- |
| seller_id | varchar | PrimaryKey |
| seller_name | varchar | Not null |
| email | varchar | Not null |
| address | varchar | Not null |
| phone | int | Not null |
| country | varchar | Not null |

This table contains the details of customers with seller_id as its primary key.

Product Table

| FieldName | Type | Constraint |
| --- | --- | --- |
| product_id | varchar | PrimaryKey |
| product_name | varchar | Not null |
| size | varchar | Not null |
| color | varchar | Not null |

| | | |
|---|---|---|
| description | varchar | Not null |
| price | int | Not null |

This table contains the details of product items with product_id as its primary key

Category Table

| FieldName | Type | Constraint |
|---|---|---|
| category_id | varchar | PrimaryKey |
| category_name | varchar | Not null |

This table contains the details of different categories with category_id as its primary key.

Brand table

| FieldName | Type | Constraint |
|---|---|---|
| brand_id | varchar | PrimaryKey |
| brand_name | varchar | Not null |
| country_of_origin | varchar | Not null |

This table contains the details of different product brands with brand_id as its primary key.

Brand-Category mapping table

| FieldName | Type | Constraint |
|---|---|---|
| brand-category_mapping_id | varchar | PrimaryKey |
| category_id | varchar | ForeignKey |
| brand_id | varchar | ForeignKey |

This table contains the brand-category mapping details with brand-category_mapping_id as its primary key, category_id and brand_id as foreign keys.

Product mapping table

| FieldName | Type | Constraint |
|---|---|---|
| product_mapping_id | varchar | PrimaryKey |
| brand-category_mapping_id | varchar | ForeignKey |
| product_id | varchar | ForeignKey |

This table contains the product mapping details with product_mapping_id as its primary key, brand-category_mapping_id and product_id as foreign keys.

Seller_item Mapping Table

| FieldName | Type | Constraint |
|---|---|---|
| seller_item_mapping_id | varchar | PrimaryKey |
| seller_id | varchar | ForeignKey |
| product_mapping_id | varchar | ForeignKey |

This table contains the seller_item mapping details with seller_item_mapping_id as its primary key, seller_id and product_mapping_id as foreign keys.

Inventory Table

| FieldName | Type | Constraint |
|---|---|---|
| inventory_id | varchar | PrimaryKey |
| seller_item_mapping_id | varchar | ForeignKey |
| stock | int | Not null |
| invoice_placed_date | date | Not null |
| delivery_date | date | Not null |

This table contains the details of inventory items with inventory_id as its primary key and seller_item_mapping_id as foreign key.

Order Table

| FieldName | Type | Constraint |
|---|---|---|

| order_id | varchar | PrimaryKey |
|---|---|---|
| customer_id | varchar | ForeignKey |
| order_date | date | Not null |
| total_amount | int | Not null |

This table contains the details of orders with order_id as its primary key and customer_id as foreign key.

Order - details Table

| FieldName | Type | Constraint |
|---|---|---|
| order_details_id | varchar | PrimaryKey |
| order_id | varchar | ForeignKey |
| seller_item_mapping_id | varchar | ForeignKey |
| quantity | int | Not null |
| total_amount | int | Not null |

This table contains the details of order items with order_details_id as its primary key and order_id as foreign key.