

# Team 2

# Project 2-Phase 3

#### **Members:**

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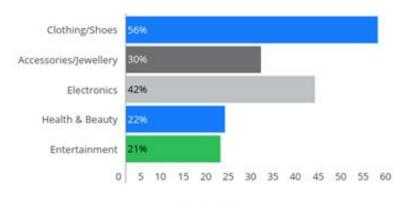
Prof. Bhanu Jain

TAs: Sparda Gupta, Yash Dani

# **Domain Choice**

 Online return induced trash will be managed by our company "Turn-it" by working with our collaborators.

### Most Frequently Returned Online Product Categories



Source: global webindex, 2019.



https://www.salecycle.com/blog/featured/ecommerce-returns-2018-stats-trends/

[1]

# Why does it matter?

•30% of products that were purchased online are returned, compared to less than 9% for brick and mortar stores

•the world economy will gain about \$160 billion annually















82,782,000,000 kilograms of clothing

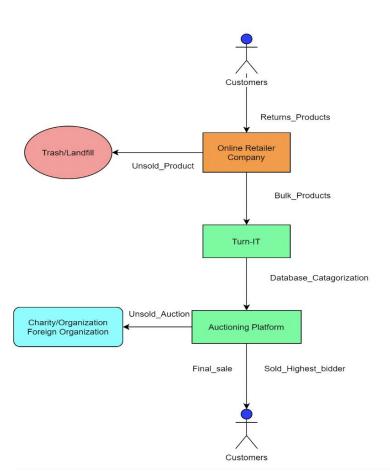
Source: Ellen MacArthur Foundation.

# How did we solve the problem?

Auction clothes (35% of earnings goes

to the apparel stores)

- Donate clothes
- Optimize business efficiency and cost



# Requirements

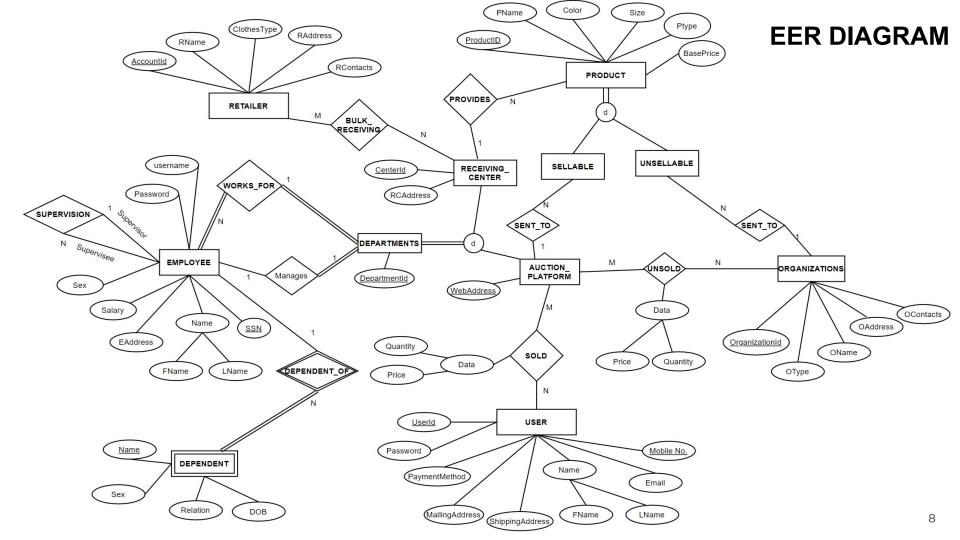
- **EMPLOYEE** has attributes like SSN, names, salary, address, sex,username,password where an employee *supervises* many other employees in the company.Employee has their **DEPENDENTS** which has name,sex,DOB,relation.
- EMPLOYEE will be able to delete/update/insert in database.
- Employee works for **DEPARTMENT** and employee also manages the department. Each department has a manager and has its own department id. Department is further divided into **RECEIVING-CENTER** and **AUCTION-PLATFORM**.

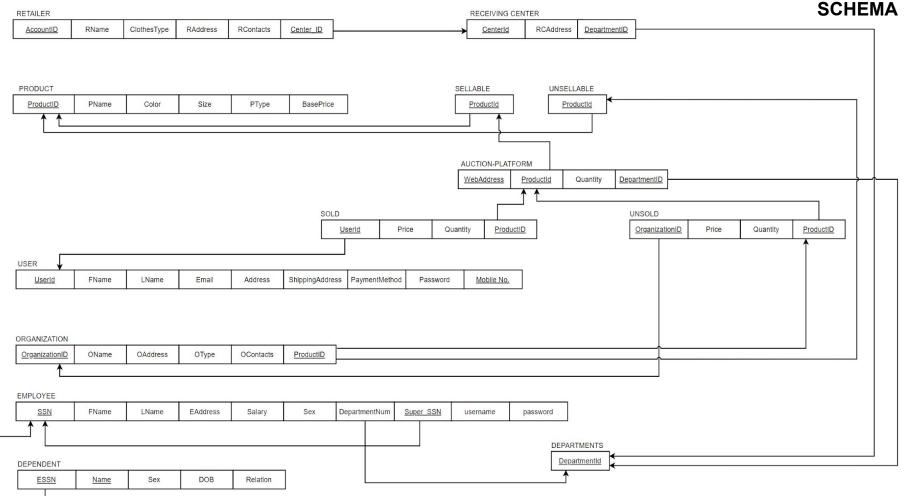
# Requirements Continued...

- ☐ RECEIVING-CENTER has address and centerid as it attributes whereas AUCTION-PLATFORM has a unique web address.
- □ RECEIVING-CENTER gets bulk product from RETAILERS. Then, PRODUCTS are provided as SELLABLE or UNSELLABLE based on their market value and sent to Auction-Platform and CHARITY/ORGANIZATION.

# Requirements Continued...

- □ Charity/Organization contains address, name, type, organizationid and contacts. Any *unsold* product from Auction-Platform will be sent to Charity/Organization.
- USER are sold products from Auction-Platform. Names, Userid, Username, Passwords, Shipping Address, Mailing Address, Payment Method, Email are the attributes of the USER of our database model. User will also be able to update their personal details.







#### **Database Tables (examples)**

#### Creating a table for Products:

```
CREATE TABLE product

(

productid VARCHAR(10) NOT NULL,

pname VARCHAR(20) NOT NULL,

color VARCHAR(20) NOT NULL,

size VARCHAR(20) NOT NULL,

ptype VARCHAR(20) NOT NULL,

baseprice VARCHAR(10) NOT NULL,

PRIMARY KEY (productid)

);
```

#### Creating a table for Auction Platform:

```
CREATE TABLE auctionplatform

(

webaddress VARCHAR(10) NOT NULL,

productid VARCHAR(10) NOT NULL,

quantity VARCHAR(10) NOT NULL,

departmentid VARCHAR(10) NOT NULL,

PRIMARY KEY (webaddress, productid, departmentid),

FOREIGN KEY (productid) REFERENCES

sellable (productid),

FOREIGN KEY (departmentid) REFERENCES

departments (departmentid));
```

# Script to populate the database (examples)

#### Script to Populate data for Products:

insert into product (productid, pname, color, size, ptype, baseprice) values ('7JE087', 'Foxtrot Zulu Romeo', 'Crimson', 'M', 'Gloves', '\$13.72');

#### Script to Populate data for Auction Platform:

insert into auctionplatform (productid, webaddress, quantity, departmentid) values ('7JE087', 'www.turnitus.com/7JE087', 2, 4);

#### Script to Populate data for User info:

insert into userinfo (userid, fname, Iname, email, address, shippingaddress, paymentmethod, password, mobileno) values ('26-1809605', 'Mella', 'Adamowicz', 'madamowicz0@washingtonpost.com', '64 Carioca Junction', '3 Merrick Parkway', 'Credit Card', 'SVvaVj8bOkP', '123-868-5804');

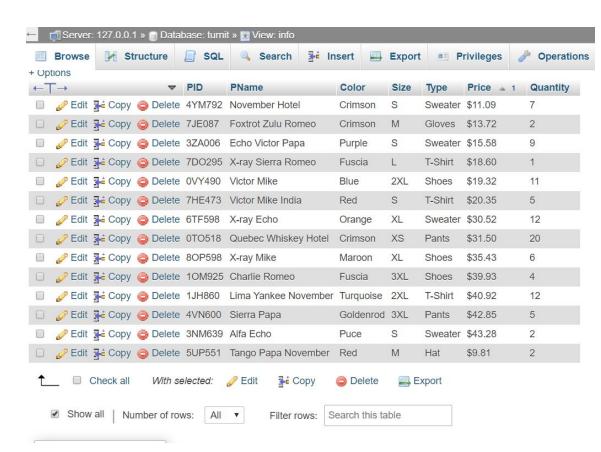
A sample of populating the data for Products table that has <a href="productid">productid</a> as the primary key!

productid	pname	color	size	ptype	baseprice
0GV607	Whiskey Papa	Aquamarine	XS	Socks	\$35.44
0TO518	Quebec Whiskey Hotel	Crimson	XS	Pants	\$31.50
0VY490	Victor Mike	Blue	2XL	Shoes	\$19.32
1BI665	Tango Alfa Mike	Turquoise	2XL	Gloves	\$24.42
1JH860	Lima Yankee November	Turquoise	2XL	T-Shirt	\$40.92
1OM925	Charlie Romeo	Fuscia	3XL	Shoes	\$39.93
2PM050	Oscar Uniform Sierra	Crimson	М	Suits	\$30.12
3HK683	Kilo Whiskey	Crimson	S	Shirts	\$9.65
3HQ754	Mike Whiskey	Blue	M	Shirts	\$42.48
3NM639	Alfa Echo	Puce	S	Sweater	\$43.28
3UI559	November Echo	Green	XL	Shirts	\$18.82
3ZA006	Echo Victor Papa	Purple	S	Sweater	\$15.58
4VN600	Sierra Papa	Goldenrod	3XL	Pants	\$42.85

## **Database Views**

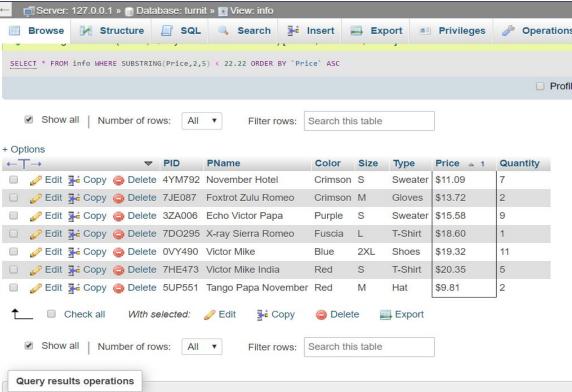
create view INFO AS Select p.productid 'PID', p.pname 'PName', p.color 'Color', p.size 'Size',p.ptype 'Type', p.baseprice 'Price',a.quantity 'Quantity'

FROM product p, auctionplatform a WHERE p.productid = a.productid;



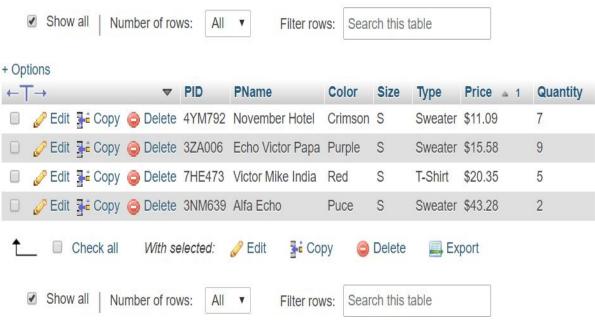
# Database Queries using the View created

SELECT \*
FROM info
WHERE SUBSTRING(Price,2,5) < 22.22;



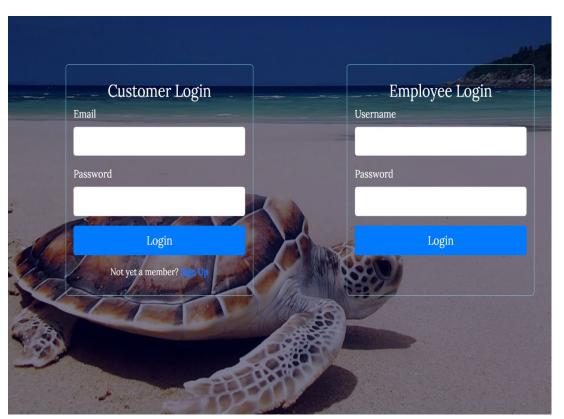
### Database Queries using the View created (cont.)

**SELECT**\* FROM info WHERE size = 'S';

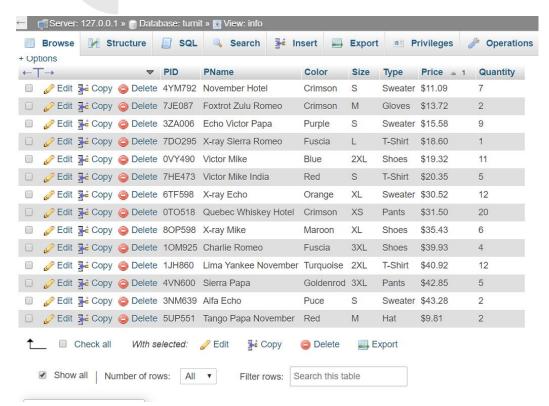


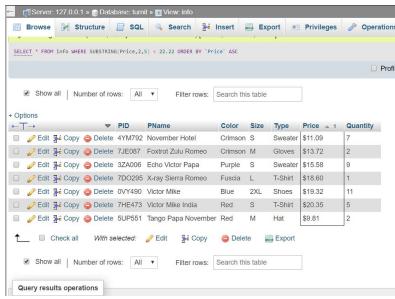
### Script to create Web Interface

```
<meta charset="UTF-8">
 < link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"</pre>
 integrity="sha384-Vkoo8x4CGs03+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9Muh0f2309Ifjh" crossorigin="anonymous">
 <link rel="stylesheet" href="style.css">
 <title>TURNIT</title>
     background: linear-gradient(rgba(0,0,50,0.5),rgba(0,0,50,0.5)),url(image.jpg);
     background-position: center;
<div class="container">
 <div class="row">
   <div class="col-md-4 offset-md-4 form-div login">
   <form action="login.controller.php" method="post">
     <h3 class="text-center">Customer Login</h3>
      <div class="form-group">
         <label for="email"><<span>Email</span></label>
<input type="text" name="email" class="form-control form-control-lg">
     <div class="form-group">
         <label for="password"><span>Password</span></label>
         <input type="text" name="password" class="form-control form-control-lg">
      <div class="form-group">
          <button type="submit" name="login-btn" class="btn btn-primary btn-block btn-lq">Login/button>
     <span>Not yet a member? </span> <a href="signup.php">Sign Up</a>
   <div class="col-md-4 offset-md-4 form-div login">
   <form action="emp-login.controller.php" method="post">
     <h3 class="text-center">Employee Login</h3>
      <div class="form-group">
          <label for="username"><span>Username</span></label>
          <input type="text" name="username" class="form-control form-control-lo">
      <div class="form-group">
          <label for="password-emp"><span>Password</span></label>
              out type="text" name="password-emp" class="form-control form-control-lg">
```



#### View of Data files with realistic data contents





# How our Database and Interface fulfills Requirement?

- A customer can buy clothing products from an auction platform, which is implemented in our company interface by logging in with their accounts.
- A customer will be able to update his/her own information (e.g. mobile number).
- If a new user wants to login, then an interface is built for a customer to register.
- The database is updated based on the products our company have.
- A customer will have options to choose from the products they are interested in or a product within his/her budget.
- An employee can login and see all the products we have and had, and the employee can update the database similarly (insert/delete/update).

# Influence in our lifestyle

- Understood the online return induced problem and tried to address
- Buying best fit product online than returning later
- Try to buy product from companies selling refurbished or used product
- Knowledge on creating and managing an online database system
- Learned to work in a team in an attempt to solve real life problem

# References

- [1]. <a href="https://www.salecycle.com/blog/featured/ecommerce-returns-2018-stats-trends/">https://www.salecycle.com/blog/featured/ecommerce-returns-2018-stats-trends/</a>
- [2]. https://medium.com/@TruleSolutions/environmental-impacts-on-product-returns-e91d2cdf630d

# QUESTIONS?

