

A Retail Database Management System

GROUP 14

2022 Fall Term Database Management Systems CIS 3400 EMWA [28994]

Members:

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Business Scenario

Our client has been struggling with keeping track of their inventory for years now. Now that technology is more diverse and they are exploring their opinions, Clothing Store ABC wants to implement our database project to help their store. This will help them with the following...

2. Description of Group 14 Project

Group 14 is creating a database that will be used by a clothing store that will have virtual clothing storage to keep track of their inventory, sales, and can set alerts to replenish items and indicate which items to move to clearance. Often clothing stores have so much inventory but no proper tracking system to indicate what is available or out of stock. Our database will be particularly beneficial for small businesses, as larger corporations have extensive resources to create databases which can be very costly.

3. Problem-Solving

Brands will benefit from this application and database because it would help to lessen the tediousness of inventory management. It can be very time consuming and inaccurate so we hope automating parts of this process will save our clients time and energy. By using a process which is automated this will create a better management and shopping experience all around.

Customers will also be able to shop for the occasion by accessing the store's current and future inventory. This application will help customers save time and frustration because they are unable to find their correct sizes or specific items and have no way of knowing if there are any left in stock, without first having to ask an employee who could be busy or unable to check immediately. The information they seek will be readily available in store as they shop, by using scanners placed around the store that will provide them with information about any item they scan.

Often times, clothing stores have so much inventory but not a proper system to track what is available and what is not. Additionally, many times employees must keep count of what is available and sold out in order to know what and when to reorder. This will be particularly beneficial for small businesses, as larger corporations have extensive and expensive resources already. From the perspective of the customer, like many can relate to, we go into a store needing an outfit for a specific occasion and cannot find what to wear. We only know the inventory available based on what we see or what the employee remembers. Therefore, with the help of this new database, customers can find exact outfits, find clothing without rummaging throughout the store and wasting time, and overall have a more positive shopping experience.

4. Initial Entities

Store:

- StoreName
- StoreLocation
- Specialty
- Price
- ClothingType
- ClothingSize
- SizeStock

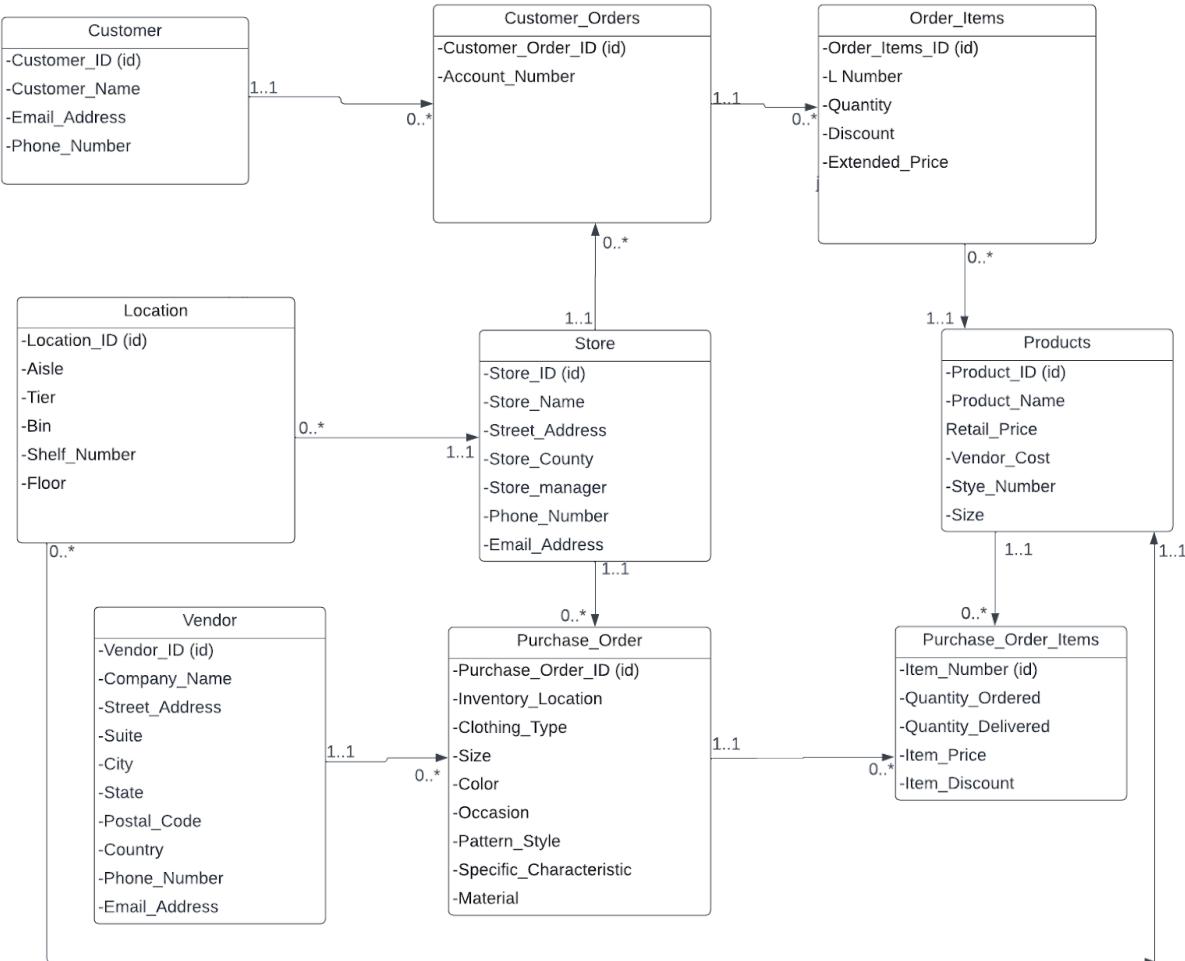
Customer:

- Name
- CustomerOccasion
- CustomerSize
- Location
- Budget
- MethodOfPayment
- EmailAddress

5. Distribution of duties for the project

- Adelaide Ilyasov: Documentation Writer
- Gyalbu Sherpa: Researcher
- Kario Champagnie: System Analyst
- Khojiakbar Yusupov: Application Developer
- Mohammad-Farid Osmani: Application Developer

Entity Relationship Model Diagram:



Relationship Sentences:

- One Customer may be (0) putting in one or more (*) customer orders
 - One Customer order must be (1) placed by only one (1) customer
-
- One Customer order may be (0) filled by one or more(*) order items
 - One Order item must be(1) placed in only one (1) customer order
-
- One Customer order may be (0) filled by one or more(*) order items
 - One Order item must be(1) placed in only one (1) customer order
-
- One Customer order may be (0) filled by one or more(*) order items
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-
- One Customer order may be (0) filled by one or more(*) order items
 - One Order item must be(1) placed in only one (1) customer order
-
- One Customer order may be (0) filled by one or more(*) order items
 - One Order item must be(1) placed in only one (1) customer order

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 - One Order item must be(1) placed in only one (1) customer order
-
- One Customer order may be (0) filled by one or more(*) order items
 - One Order item must be(1) placed in only one (1) customer order

Normalization:

1. Figure out the Primary Keys in Group 14 relation
2. Find what the dependencies are
3. Normalization

Store (Store_ID (Key), Store_Name, Street_Address, Store_County, Store_Manager, Phone_Number, Email_Address)

- Key: Store
- Non-Key: Store_Name, Street_Address, Store_County, Store_Manager, Phone_Number, Email_Address
- FD1: Store → Store_Name, Street_Address, Store_County, Store_Manager, Phone_Number, - Email_Address

Products(Productid(KEY), Product_Name, Rental_Price, Vendor_Cost, Style_Number, Size)

- Key: Product
- Non-Key: Product_Name, Rental_Price, Vendor_Cost, Style_Number, Size
- FD1: Product → Product_Name, Rental_Price, Vendor_Cost, Style_Number, Size

Location (Location_ID(key), Aisle, Tier, Bin, Shelf_Number, Floor, StoreId(fk), ProductID (FK))

- Key: Location, Store, Product
- Non-Key: Aisle, Tier, Bin, Shelf_Number, Floor
- FD1: Location, Store, Product → Aisle, Tier, Bin, Shelf_Number, Floor

Customer(Customer_ID(key), Customer_Name, Email_Address, Phone_Number)

- Key: Customer
- Non-Key: Customer_Name, Email_Address, Phone_Number
- FD1: Customer → Customer_Name, Email_Address, Phone_Number

Customer_Order(Customer_order_ID(key), Account_Number, Customer_ID(fk), Store_ID (FK))

- Key: Customer_Order
- Non-Key: Account_Number, Customer, Store
- FD1: Customer_Order → Account_Number, Customer, Store

Order_items (Order_item_ID(KEY), Line_Number, Quantity_Discount, Extended_Price, Customer_Order_ID(fk), Product_ID(fk))

- Key: Order_Item
- Non-Key: Line_Number, Quantity_Discount, Extended_Price, Customer_Order, Product
- FD1: Order_Item → Line_Number, Quantity_Discount, Extended_Price, Customer_Order, Product

PurchaseOrder (Purchase_order_id (Key), Inventory_Location, Clothing_Type, Size, Color, Occasion, Pattern_Style, Specific_Charesteristic, Material)

- Key: Purchase_Order
- Non-Key: Inventory_Location, Clothing_Type, Size, Color, Occasion, Pattern_Style, Specific_Charesteristic, Material
- FD1: Purchase_Order → Inventory_Location, Clothing_Type, Size, Color, Occasion, Pattern_Style, Specific_Charesteristic, Material

Purchase_order_Item (Item_Number(key), Quantity_Ordered, Quantity_Delivered, Item_Price, Item_Discount, Purchase_Order_ID(FK)(Key), Product_ID (FK))

- Key: Item_Number, Purchase_Order
- Non-Key: Quantity_Ordered, Quantity_Delivered, Item_Price, Item_Discount, Product
- FD1: Item_Number, Purchase_Order → Quantity_Ordered, Quantity_Delivered, Item_Price, Item_Discount, Product_ID

All functional dependencies are in 3NF Thus the final set of relations are:

- Store (Store_ID, Store_Name, Street_Address, Store_County, Store_Manager, Phone_Number, Email_Address) Key: Store
- Products(Product, Product_Name, Rental_Price, Vendor_Cost, Style_Number, Size)
- Key: Product
- Location (Location, Aisle, Tier, Bin, Shelf_Number, Floor, Store, Product) Key: Location, Store, Product
- Customer(Customer, Customer_Name, Email_Address, Phone_Number) Key: Customer
- Order_items (Order_Item, Line_Number, Quantity_Discount, Extended_Price, Customer_Order, Product) Key: Order_Item
- PurchaseOrder (Purchase_Order, Inventory_Location, Clothing_Type, Size, Color, Occasion, Pattern_Style, Specific_Charesteristic, Material) Key: Purchase_Order

- Purchase_order_Item (Item_Number, Quantity_Ordered, Quantity_Delivered, Item_Price, Item_Discount, Purchase_Order_ID, Product_ID) Key: Item_Number, Purchase_Order

SQL Code:

```
CREATE TABLE Customers (
    Customer_ID      INTEGER          NOT NULL PRIMARY KEY,
    Customer_Name    VARCHAR(30)       NOT NULL,
    Email_Address    VARCHAR(35),
    Phone_Number     VARCHAR(14),
) ;

CREATE TABLE Customer_Orders (
    Customer_OrderID INTEGER          NOT NULL PRIMARY KEY,
    Account_Number   INTEGER          NOT NULL,
) ;

CREATE TABLE Order_Items(
    Order_Items_ID   INTEGER          NOT NULL PRIMARY KEY,
    L.Number         INTEGER,
    Quantity         INTEGER,
    Discount         INTEGER,
    Extended_Price  INTEGER,
) ;

CREATE TABLE Store (
    Store_ID         INTEGER          NOT NULL PRIMARY KEY,
    Store_Name       VARCHAR(30)       NOT NULL,
    Street_Address   VARCHAR(35)       NOT NULL,
    Store_County    VARCHAR(35),
    Store_Manager   VARCHAR(35),
    Phone_Number    VARCHAR(14),
    Email_Address   VARCHAR(35)
) ;
```

```
CREATE TABLE Products (
    Product_ID      INTEGER      NOT NULL PRIMARY KEY,
    Product_Name    VARCHAR(35)  NOT NULL,
    Rental_Price    NUMBER,
    Vendor_Cost    NUMBER,
    Style_Number   VARCHAR(12),
    Size           VARCHAR(10)
);
```

```
CREATE TABLE Location (
    Location_ID     INTEGER      NOT NULL PRIMARY KEY,
    Aisle           INTEGER      NOT NULL,
    Tier            INTEGER      NOT NULL,
    Bin             INTEGER,
    Shelf_Number   INTEGER,
    Floor           INTEGER,
    Store_ID        INTEGER,
    Product_ID      INTEGER
);
```

```
ALTER TABLE Location ADD CONSTRAINT fk_Location_Store FOREIGN
KEY (store_id) REFERENCES Store (Store_ID);
ALTER TABLE Location ADD CONSTRAINT fk_Location_Product FOREIGN
KEY (product_id) REFERENCES Products (product_id);
```

```
CREATE TABLE VENDOR (
    Vendor_ID       INTEGER      NOT NULL PRIMARY KEY,
    Company_Name   VARCHAR(30)  NOT NULL,
    Street_Address VARCHAR(35)  NOT NULL,
    State          VARCHAR(35),
    City           VARCHAR(35),
    Postal_Code    INTEGER,
```

```

Country          VARCHAR(20),
Phone_Number    VARCHAR(14),
Email_Address   VARCHAR(35)
) ;

```



```

CREATE TABLE Purchase_Order (
Purchase_OrderID      INTEGER      NOT NULL PRIMARY KEY,
Inventory_location    VARCHAR(30) NOT NULL,
Clothing_Type         VARCHAR(35) NOT NULL,
Size                  INTEGER,
Color                 VARCHAR(35),
Postal_Code           INTEGER,
Occasion              VARCHAR(20),
Pattern_Style          VARCHAR(14),
Specific_characteristic VARCHAR(35),
Material              VARCHAR(35),
) ;

```



```

CREATE TABLE purchase_order_Items
Item_Number          INTEGER      NOT NULL PRIMARY KEY,
Quantity_Ordered     INTEGER,
Quantity_Delivered   INTEGER,
Item_price            INTEGER,
Item_Discount         INTEGER,
) ;

```



```

ALTER TABLE Customer_Orders ADD CONSTRAINT fk_customer_ord
FOREIGN KEY (customer_ID) REFERENCES Customers(Customer_ID);
ALTER TABLE Customer_Orders ADD CONSTRAINT fk_customer_store
FOREIGN KEY (store_ID) REFERENCES Store(Store_ID);
ALTER TABLE order_items ADD CONSTRAINT fk_customer_orderId
FOREIGN KEY(Customer_OrderID) REFERENCES
Customer_Orders(Customer_OrderID);
ALTER TABLE order_items ADD CONSTRAINT fk_product_Id FOREIGN
KEY(Product_ID) REFERENCES Products(Product_ID);

```

```
ALTER TABLE Location ADD CONSTRAINT fk_Location_Store FOREIGN  
KEY (store_id) REFERENCES Store (Store_ID);  
ALTER TABLE Location ADD CONSTRAINT fk_Location_Product FOREIGN  
KEY (product_id) REFERENCES Products (product_id);  
ALTER TABLE purchase_order_items ADD CONSTRAINT  
fk_purchase_orderId FOREIGN KEY (purchase_orderId) REFERENCES  
Purchase_Order(Purchase_OrderID);  
ALTER TABLE purchse_order_items ADD CONSTRAINT fk_product_ID  
FOREIGN KEY (product_id) REFERENCES Products (product_id);
```

Forms, Reports, and Queries: more data in zip

Customers

Customer_ID	567821
Customer_Name	Mike Wazowski
Email_Address	MikeWaza@gmail.com
Phone_Number	631-252-5824

Customers_Orders

Customer_Orders_ID	894722
Customer_ID	567821
Account_Number	101202
Store_ID	288

Location

Location_ID	4001
Aisle	11
Tier	A
Bin	Bin 1
Shelf_Number	11A
Floor	1
Store_ID	288
Product_ID	1571

Customers_Orders \ Customers \ Location \ Order_Items

Order_Items

Order_Items_ID	1928530
Line_Number	2755-823923
Quantity	1
Discount	15.00%
Extended_Price	\$32.00
Customer_Orders_ID	894722
Product_ID	2755

Customers_Orders \ Customers \ Location \ Order_Items \ Products

Products

Product_ID	1203
Product_Name	Women's BodySuit
Retail_Price	\$55.00
Vendor_Cost	\$10.00
Style_Number	103213
Size	XS

Customers_Orders \ Customers \ Location \ Order_Items \ Products \ Purchase_Order

Purchase_Order

Purchase_Order_ID	193297
Inventory_Location	11A111A1
Clothing_Type	Men's V-Neck Sweater
Size	XS
Color	Black
Occasion	Formal
Material	Cotton
Vendor_ID	1234567
Store_ID	288

Customers_Orders Customers Location Order_Items Products Purchase_Order Purchase_Order_Items

Purchase_Order_Items

Item_Number_ID	<input type="text" value="1203-103213"/>
Quantity_Ordered	<input type="text" value="1"/>
Quantity_Delivered	<input type="text" value="1"/>
Item_Price	<input type="text" value="\$10.0"/>
Item_Discount	<input type="text" value="0.00%"/>
Product_ID	<input type="text" value="1203"/>
Purchase_Order_ID	<input type="text" value="193347"/>

Customers_Orders Customers Location Order_Items Products Purchase_Order Purchase_Order_Items Store

Store

Store_ID	<input type="text" value="288"/>
Store_Name	<input type="text" value="Clothes4You"/>
Street_Address	<input type="text" value="371 Walt Whitman Rd"/>
Store_County	<input type="text" value="Huntington"/>
Store_Manager	<input type="text" value="Amber Hurtdepp"/>
Phone_Number	<input type="text" value="631-501-9431"/>
Email_Address	<input type="text" value="You4ClothesBusiness@gmail.com"/>

Customers_Orders Customers Location Order_Items Products Purchase_Order Purchase_Order_Items Store Vendor

Vendor

Vendor_ID	<input type="text" value="1234567"/>
Company_Name	<input type="text" value="Pants&Shirts Incorp."/>
Street_Address	<input type="text" value="7255 East Saxon Street"/>
State	<input type="text" value="IL"/>
City	<input type="text" value="Wheaton"/>
Postal_Code	<input type="text" value="60187"/>
Country	<input type="text" value="USA"/>
Phone_Number	<input type="text" value="217-108-6453"/>
Email_Address	<input type="text" value="Pants&ShirtsBusiness@gmail.com"/>

Customers

Customer_ID	567821
Customer_Name	Mike Wazowski
Email_Address	MikeWaza@gmail.com
Phone_Number	631-252-5824

Customer_ID	567822
Customer_Name	Louis Armweak
Email_Address	LouisWeak@yahoo.com
Phone_Number	631-252-5825

Customer_ID	567823
Customer_Name	Vanessa Hudgens
Email_Address	VanesHudge@aol.com
Phone_Number	631-252-5826

Customer_ID	567824
Customer_Name	Coby Brian
Email_Address	galagachamp@outlook.com
Phone_Number	631-252-5827

Customer_ID	567825
Customer_Name	Brandon Bent
Email_Address	BentBrand@gmail.com
Phone_Number	631-252-5828

Customer_ID	567826
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Customers_Orders

Customer_ID	Customer_Orders_ID	Account_Number	Store_ID
567821	894722	101202	288
567822	894723	101203	288
567823	894724	101204	288
567824	894725	101205	288
567825	894726	101206	288
567826	894727	101207	288
567827	894728	101208	288
567828	894729	101209	288
567829	894730	101210	288
567830	894731	101211	288
567831	894732	101212	288
567832	894733	101213	288
567833	894734	101214	288

Location

Store_ID	on_ID	uct_ID	Aisle	Tier	Bin	Shelf_Number	ir
288							
	4001	1571	11	A	Bin 1	11A	#
	4002	1572	12	A	Bin 2	12A	#
	4003	1573	13	A	Bin 3	13A	#
	4004	1574	14	A	Bin 4	14A	#
	4005	1575	15	A	Bin 5	15A	#
	4006	2753	16	A	Bin 6	16A	#
	4007	2754	17	A	Bin 7	17A	#
	4008	2755	18	A	Bin 8	18A	#
	4009	2756	19	A	Bin 9	19A	#
	4010	2757	20	A	Bin 10	20A	#
	4011	1963	21	B	Bin 11	21B	#
	4012	1964	22	B	Bin 12	22B	#
	4013	1965	23	B	Bin 13	23B	#
	4014	1966	24	B	Bin 14	24B	#
	4015	1967	25	B	Bin 15	25B	#
	4016	3742	26	B	Bin 16	26B	#
	4017	3743	27	B	Bin 17	27B	#
	4018	3744	28	B	Bin 18	28B	#
	4019	3745	29	B	Bin 19	29B	#
	4020	3746	30	B	Bin 20	30B	#
	4021	4525	31	C	Bin 21	31C	#
	4022	4526	32	C	Bin 22	32C	#
	4023	4527	33	C	Bin 23	33C	#
	4024	4528	34	C	Bin 24	34C	#
	4025	4529	35	C	Bin 25	35C	#

Order_Items

Customer_Orders	Product_ID	Order_Items_ID	Line_Number	Quantity	Discount	nded_Price
894722	2755	4928530	2755-823923	1	15.00%	\$32.00
894723	6914	4928531	6914-134924	1	25.00%	\$10.00
894724	1965	4928532	1965-127734	1	25.00%	\$186.00
894725	3744	4928533	3744-308184	1	25.00%	\$93.00
894726	8194	4928534	8194-552036	4	25.00%	\$15.00
894727	2012	4928535	2012-431468	1	50.00%	\$7.50
894728	7139	4928536	7139-500012	1	10.00%	\$61.20
894729	7140	4928537	7140-500013	1	10.00%	\$61.20
894730	7141					

Products

Product_ID	Product_Name	Retail_Price	Vendor_Cost	Style_Number	Size
1203	Women's BodySuit	\$55.00	\$10.00	103213	XS
1204	Women's BodySuit	\$55.00	\$10.00	103214	S
1205	Women's BodySuit	\$55.00	\$10.00	103215	M
1206	Women's BodySuit	\$55.00	\$10.00	103216	L
1207	Women's BodySuit	\$55.00	\$10.00	103217	XL
1571	Men's V-Neck Sweater	\$44.00	\$10.00	712032	XS
1572	Men's V-Neck Sweater	\$44.00	\$10.00	712033	S
1573	Men's V-Neck Sweater	\$44.00	\$10.00	712034	M
1574	Men's V-Neck Sweater	\$44.00	\$10.00	712035	L
1575	Men's V-Neck Sweater	\$44.00	\$10.00	712036	XL
1963	Men's Suit Jacket	\$248.00	\$50.00	127732	XS
1964	Men's Suit Jacket	\$248.00	\$50.00	127733	S
1965	Men's Suit Jacket	\$248.00	\$50.00	127734	M

Purchase_Order

Vendor_ID	P_O_ID	Inventory_Locatik	Store_ID	Clothing_Type	Size	Material	Color
1234567	193298	12A212A1	288	Men's V-Neck Sweater	S	Cotton	Black
	193299	13A313A1	288	Men's V-Neck Sweater	M	Cotton	Black
	193300	14A414A1	288	Men's V-Neck Sweater	L	Cotton	Black
	193301	15A515A1	288	Men's V-Neck Sweater	XL	Cotton	Black
	193302	16A616A2	288	Women's Sweater Vest	XS	Wool	Beige
	193303	17A717A2	288	Women's Sweater Vest	S	Wool	Beige
	193304	18A818A2	288	Women's Sweater Vest	M	Wool	Beige
	193305	19A919A2	288	Women's Sweater Vest	L	Wool	Beige
	193306	20A1020A2	288	Women's Sweater Vest	XL	Wool	Beige
	193297	11A111A1	288	Men's V-Neck Sweater	XS	Cotton	Black
1234568	193308	22B1222B3	288	Men's Suit Jacket	S	Cotton	Navy Blue
	193316	30B2030B4	288	Men's Suit Pants	XL	Cotton	Navy Blue
	193315	29B1929B4	288	Men's Suit Pants	L	Cotton	Navy Blue
	193314	28B1828B4	288	Men's Suit Pants	M	Cotton	Navy Blue
	193313	27B1727B4	288	Men's Suit Pants	S	Cotton	Navy Blue
	193312	26B1626B4	288	Men's Suit Pants	XS	Cotton	Navy Blue
	193311	25B1525B3	288	Men's Suit Jacket	XL	Cotton	Navy Blue
	193309	23B1323B3	288	Men's Suit Jacket	M	Cotton	Navy Blue
	193307	21B1121B3	288	Men's Suit Jacket	XS	Cotton	Navy Blue
	193310	24B1424B3	288	Men's Suit Jacket	L	Cotton	Navy Blue
1234569	193323	37C2737C5	288	Women's T-Shirt	S	Cotton	White
	193318	32C2232C4	288	Women's Dress	S	Sequin	Ruby Red
	193326	40C3040C5	288	Women's T-Shirt	XL	Cotton	White
	193325	39C2939C5	288	Women's T-Shirt	L	Cotton	White
	193324	38C2838C5	288	Women's T-Shirt	M	Cotton	White
	193321	35C2535C4	288	Women's Dress	XL	Sequin	Ruby Red
	193317	31C2131C4	288	Women's Dress	XS	Sequin	Ruby Red
	193319	33C2333C4	288	Women's Dress	M	Sequin	Ruby Red
	193320	34C2434C4	288	Women's Dress	L	Sequin	Ruby Red

Purchase_Order_Items

Product_ID	Item_Number_ID	Quantity_Ordered	Quantity_Delivered	Item_Price	n_Discount
1203	1203-103213	1	1	\$10.0	0.00%
1204	1204-103214	2	2	\$20.0	0.00%
1205	1205-103215	3	3	\$30.0	0.00%
1206	1206-103216	10	10	\$100.0	0.00%
1207	1207-103217	5	5	\$50.0	0.00%
1571	1571-712032	9	9	\$90.0	0.00%
1572	1572-712033	10	10	\$100.0	0.00%
1573	1573-712034	8	8	\$80.0	0.00%
1574	1574-712035	10	10	\$100.0	0.00%
1575	1575-712036	0	0	\$0.0	0.00%
1963	1963-127732	9	9	\$450.0	0.00%
1964	1964-127733	7	7	\$350.0	0.00%
1965	1965-127734	10	10	\$500.0	0.00%

Store

Store_ID	Store_Name	Street_Address	Store_County	Store_Manager	Phone_Number	Email_Adre
288	Clothes4You	371 Walt Whitmar	Huntington	Amber Hurtdepp	631-501-9431	You4Clothes

Friday, December 16, 2022

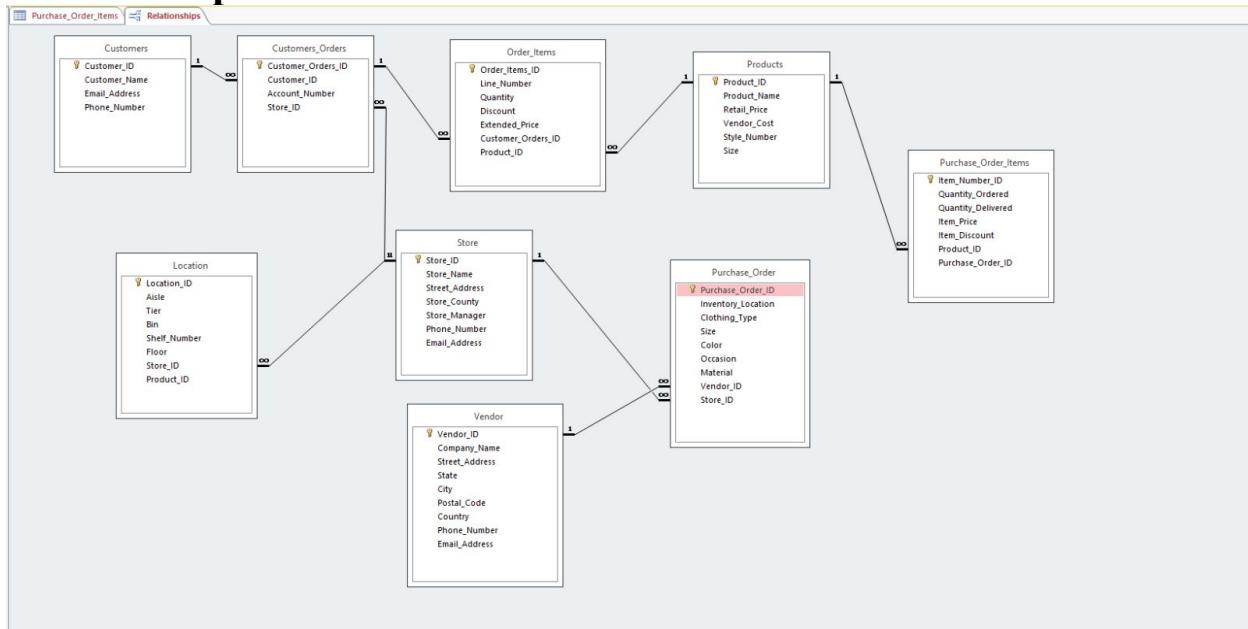
Page 1 of 1

Vendor

Vendor_ID	Company_Name	Street_Address	State	City	stat_CodeCountry	Phone_Number
1234567	Pants&Shirts Incorp.	7255 East Saxon Street	IL	Wheaton	60187 USA	217-108-6453
1234568	Quiribinolino Stuff	43 Evergreen Street	VA	Colonial Heights	23834 USA	757-482-5036
1234569	Lockport Clothes	191 Myers Drive	MA	Burlington	18031 USA	508-853-1796
1234570	Newbridge Manufactures	607 Gonzales Court	PA	Erie	16506 USA	412-4532-1001
1234571	Rocklin Corporation	34 Mechanic Street	FL	Clearwater	33756 USA	352-904-7234
1234572	Bedford & Sons	8375 Garden Street	WI	Racine	53402 USA	608-211-4897
1234573	Nat Knows Clothes Inc.	9020 Lower River Street	MI	Dearborn Heights	48127 USA	616-679-6521
1234574	Shirt&Pants Incorp.	88 Howard Drive	GA	Ringgold	30736 USA	912-395-6987

Friday, December 16, 2022

Relationships:



Conclusion:

Group 14's main form of software and services used to coordinate all our activities were WhatsApp, Zoom, and in-person meet ups. Additionally, we used Lucid-Chart, Microsoft Access, and Google Docs.

It was agreed on that the easiest step was creating the initial idea for our group project. We all believed that a system which created a solution with regards to inventory management for our clients and their customers was important. We then started to formulate the way we wanted to approach this project and the roles we would each take to successfully use our strong specialties to finish this project.

The most difficult part of this project was creating the SQL Code and queries in Microsoft Access. This part was a weakness for most of the group and we had to heavily rely on each other. By the end we were able to collaborate, and with honest on what he knew and did not know, we were able to figure it out and complete it.

If we were able to do it all over again, we would improve communication. It became difficult at times to figure out times to meet and complete our work with all of us having such different schedules. However, with better communication Group 14 could certainly have been more successful with less stress.

We believed that our original objective was completed with the use of our new system. Stores were able to keep track of their inventory seamlessly and more efficiently and customers were able to find items easier.

Overall, this project was an amazing way to apply the topics we learned in class throughout the semester. Additionally, with each milestone we were working towards this larger reporter which helped it be easier to complete without scrambling for results and answer. This was a great project to force us to think about this course in a “real world way” and collaborate with classmates.