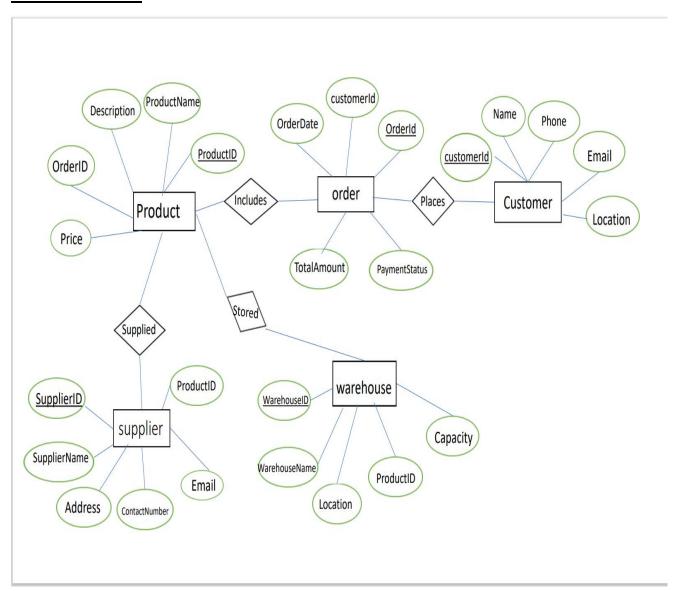
### **FABRICEDGE TEXTILE**

#### **INTRODUCTION:**

A textile management system is a software solution designed to streamline and automate processes related to inventory management, production planning, sales, and customer relationship management in the textile industry. It helps businesses optimize operations, improve efficiency, and enhance customer satisfaction.

#### **ER DIAGRAM**:



#### **STRUCTURE OF TABLES**

**CUSTOMER**: Represents the individuals or organizations who purchase textile products.

Field	Type	Null	Key	Default	Extra
CustomerID	int(11)	NO	PRI	NULL	
Name	varchar(100)	YES		NULL	
Location	varchar(100)	YES		NULL	
Email	varchar(100)	YES		NULL	
Phone	varchar(20)	YES		NULL	

**ORDER**: Represents an order placed by a customer.

+   Field :	+   Type :	+   Null	Key	Default	Extra
OrderID   CustomerID   OrderDate   TotalAmount   PaymentStatus	int(11)   date   decimal(4,2)	NO   YES   YES   YES   YES	MUL	NULL NULL NULL NULL NULL	

**PRODUCT**: Represents the textile products available for sale.

```
MariaDB [textile]> desc product;
 Field
               Type
                               Null | Key | Default |
                                                       Extra
  ProductID
              | int(11)
                               NO
                                      PRI
                                             NULL
 ProductName | varchar(100)
                               YES
                                             NULL
 Description
                varchar(255)
                               YES
                                             NULL
  orderID
                int(11)
                               YES
                                      MUL
                                             NULL
               decimal(4,2)
                             YES
                                            NULL
 rows in set (0.010 sec)
```

#### **SUPPLIER**: Represents the suppliers who provide textile products.

MariaDB [textile] +   Field	·		Key	   Default	+   Extra
: ''	int(11)  varchar(100)  varchar(200)  bigint(20)  varchar(100)  int(11)	NO YES YES YES YES YES	PRI MUL	NULL NULL NULL NULL NULL NULL	

### **WAREHOUSE**: Represents the storage location for textile products.

Field	Туре	+   Null	Key	Default	Extra
WarehouseName Location Capacity	int(11) varchar(100) varchar(200) int(11) int(11)	NO YES YES YES YES	PRI	NULL NULL NULL NULL	

### **CONTENTS OF TABLES**

#### **CUSTOMER:**

MariaDB [text:	ile]> select *from cus	stomer;	·	<b></b>
CustomerID	Name	Location	Email	Phone
+	John Doe Jane Smith David Johnson Sarah Williams Michael Brown Emily Jones Christopher Taylor Jessica Davis Daniel Miller Megan Wilson Matthew Anderson Olivia Thomas Andrew Jackson Ava White Ryan Harris Sophia Martin William Thompson Isabella Garcia Ethan Martinez Emma Robinson	New York Los Angeles Chicago Houston San Francisco Seattle Miami Dallas Phoenix Denver Atlanta Boston Philadelphia San Diego Las Vegas Orlando New Orleans Nashville Austin San Antonio	johndoe@example.com janesmith@example.com davidjohnson@example.com sarahwilliams@example.com michaelbrown@example.com emilyjones@example.com christophertaylor@example.com jessicadavis@example.com danielmiller@example.com meganwilson@example.com matthewanderson@example.com oliviathomas@example.com andrewjackson@example.com avawhite@example.com ryanharris@example.com sophiamartin@example.com williamthompson@example.com isabellagarcia@example.com ethanmartinez@example.com ethanmartinez@example.com	555-1234 555-5678 555-9876 555-9876 555-4321 555-8765 555-2468 555-1357 555-5792 555-8246 555-7681 555-9213 555-9213 555-9213 555-9213 555-9213 555-9213 555-9734 555-9824 555-9824 555-9734 555-9734
20 rows in set	t (0.003 sec)			

#### **ORDER:**

OrderID	CustomerID	OrderDate	TotalAmount	PaymentStatus
1001	2001	 2023-06-15	75.99	 Paid
1002	2002	2023-06-16	99.99	Paid
1003	2003	2023-06-17	39.99	Pending
1004	2004	2023-06-18	89.99	Paid
1005	2005	2023-06-19	29.99	Paid
1006	2006	2023-06-20	64.99	Pending
1007	2007	2023-06-21	99.99	Paid
1008	2008	2023-06-22	99.99	Paid
1009	2009	2023-06-23	54.99	Paid
1010	2010	2023-06-24	79.99	Paid
1011	2011	2023-06-25	99.99	Pending
1012	2012	2023-06-26	44.99	Paid
1013	2013	2023-06-27	69.99	Paid
1014	2014	2023-06-28	99.99	Paid
1015	2015	2023-06-29	94.99	Pending
1016	2016	2023-06-30	24.99	Paid
1017	2017	2023-07-01	99.99	Paid
1018	2018	2023-07-02	79.99	Pending
1019	2019	2023-07-03	59.99	Paid
1020	2020	2023-07-04	99.99	Paid

#### **PRODUCT:**

ProductID	ProductName	Description	orderID	Pric
1	Cotton T-shirt	A comfortable and breathable cotton T-shirt for everyday wear.	1001	15.9
2	Denim Jeans	Classic denim jeans with a slim fit and durable construction.	1002	49.9
3	Silk Scarf	Luxurious silk scarf with a vibrant floral print.	1003	29.9
4	Linen Dress	Lightweight linen dress in a relaxed fit, perfect for summer.	1004	39.9
5	Wool Sweater	Cozy wool sweater with a cable knit pattern.	1005	59.9
6	Polyester Blouse	Elegant polyester blouse with ruffled sleeves.	1006	24.9
7	Velvet Skirt	Soft velvet skirt with a flared silhouette.	1007	34.9
8	Cashmere Scarf	Luxurious cashmere scarf, incredibly soft and warm.	1008	79.9
9	Cotton Shorts	Comfortable cotton shorts for casual summer outfits.	1009	19.9
10	Linen Tablecloth	High-quality linen tablecloth for elegant dining experiences.	1010	49.9
11	Chiffon Maxi Dress	Flowy chiffon maxi dress with a floral print.	1011	69.9
12	Wool Coat	Warm wool coat with a tailored fit and classic design.	1012	99.9
13	Silk Blouse	Luxurious silk blouse with a button-up front.	1013	39.9
14	Velvet Jacket	Plush velvet jacket with a relaxed fit and satin lining.	1014	79.9
15	Cotton Socks	Soft and breathable cotton socks in various colors.	1015	9.9
16	Linen Pillowcases	Set of two linen pillowcases with a subtle embroidered detail.	1016	29.9
17	Polyester Blend Blazer	Stylish polyester blend blazer for formal occasions.	1017	89.9
18	Wool Hat	Cozy wool hat with a folded brim and a pom-pom accent.	1018	24.9
19	Silk Pajama Set	Luxurious silk pajama set for a comfortable night's sleep.	1019	79.9
20	Cashmere Sweater	Soft and luxurious cashmere sweater with a crew neck.	1020	99.9

#### **SUPPLIERS:**

SupplierID	SupplierName	Address	ContactNumber	Email	ProductI
101	Supplier A	123 Main St, City A	1234567890	supplierA@email.com	
102	Supplier B	456 Elm St, City B	9876543210	supplierB@email.com	:
103	Supplier C	789 Oak St, City C	5551234567	supplierC@email.com	:
104	Supplier D	321 Maple St, City D	8885551234	supplierD@email.com	
105	Supplier E	654 Pine St, City E	7778889999	supplierE@email.com	
106	Supplier F	987 Cedar St, City F	1112223333	supplierF@email.com	
107	Supplier G	852 Elm St, City G	4445556666	supplierG@email.com	
108	Supplier H	741 Oak St, City H	2223334444	supplierH@email.com	
109	Supplier I	963 Maple St, City I	9998887777	supplierI@email.com	
110	Supplier J	159 Pine St, City J	3332221111	supplierJ@email.com	1
111	Supplier K	258 Cedar St, City K	6667778888	supplierK@email.com	1
112	Supplier L	753 Elm St, City L	777777777	supplierL@email.com	1
113	Supplier M	852 Oak St, City M	888888888	supplierM@email.com	1
114	Supplier N	369 Maple St, City N	9999999999	supplierN@email.com	1
115	Supplier 0	147 Pine St, City 0	1010101010	supplierO@email.com	1
116	Supplier P	258 Cedar St, City P	1111111111	supplierP@email.com	1
117	Supplier Q	369 Elm St, City Q	222222222	supplierQ@email.com	1
118	Supplier R	852 Oak St, City R	333333333	supplierR@email.com	1
119	Supplier S	741 Pine St, City S	444444444	supplierS@email.com	1
120	Supplier T	963 Cedar St, CityT	555555555	supplierT@email.com	2

#### **WAREHOUSE:**

WarehouseID	WarehouseName	Location	Capacity	ProductID
201	Warehouse A	123 Main St, City A	1000	1
202	Warehouse B	456 Elm St, City B	1500	2
203	Warehouse C	789 Oak St, City C	2000	3
204	Warehouse D	321 Maple St, City D		4
205	Warehouse E	654 Pine St, City E	1800	5
206	Warehouse F	987 Cedar St, City F	800	6
207		852 Elm St, City G		7
208	Warehouse H	741 Oak St, City H	2000	8
209	Warehouse I	963 Maple St, City I	1200	9
210		159 Pine St, City J	1800	10
211	Warehouse K	258 Cedar St, City K	800	11
212	Warehouse L	753 Elm St, City L		12
213	Warehouse M	852 Oak St, City M	2000	13
214	Warehouse N	369 Maple St, City N	1200	14
215	Warehouse O	147 Pine St, City O	1800	15
216	Warehouse P	258 Cedar St, City P	800	16
217		369 Elm St, City Q		17
218	Warehouse R	852 Oak St, City R		18
219	Warehouse S	741 Pine St, City S		19
220	Warehouse T	963 Cedar St, City T	1800	20

#### **SUBQUERIES**

#### 1. Retrieve the names of product stored in a specific warehouse.

MariaDB [textile]> SELECT ProductName FROM Product WHERE ProductID IN (SELECT ProductID FROM Warehouse WHERE WarehouseName = 'warehouse A');

## 2. Retrieve suppliers name who supply products with a price higher than the average price of all products.

MariaDB [textile] > SELECT SupplierName FROM Suppliers WHERE productID IN (SELECT productID FROM Product WHERE Price > (SELECT AVG(Price) FROM Product));

```
| SupplierName |
| Supplier E |
| Supplier H |
| Supplier K |
| Supplier L |
| Supplier N |
| Supplier Q |
| Supplier S |
| Supplier T |
| Supplier T |
| tows in set (0.003 sec)
```

## 3. Retrieve the names of customer who have placed an order for a specific orderid =1011.

MariaDB [textile] > select name from customer where customerid in (select customerid from orders where orderid = '1011');

## 4. Retrieve the names of customers along with the average order amount for each customer.

MariaDB [textile] > SELECT Name, (SELECT AVG(TotalAmount) FROM Orders WHERE CustomerID = Customer.CustomerID) AS AverageOrderAmount from customer;

#### **JOINS**

# 1. Show the details of products along with their corresponding supplier names.

MariaDB [textile]> SELECT Product.ProductName, Suppliers.SupplierName FROM Product INNER JOIN Suppliers ON Product.productID = Suppliers.productID;

ProductName	SupplierName
Cotton T-shirt Denim Jeans Silk Scarf Linen Dress Wool Sweater Polyester Blouse Velvet Skirt Cashmere Scarf Cotton Shorts Linen Tablecloth Chiffon Maxi Dress Wool Coat Silk Blouse Velvet Jacket Cotton Socks Linen Pillowcases Polyester Blend Blazer Wool Hat Silk Pajama Set Cashmere Sweater	Supplier A   Supplier B   Supplier C   Supplier D   Supplier E   Supplier F   Supplier G   Supplier H   Supplier J   Supplier J   Supplier L   Supplier M   Supplier N   Supplier N   Supplier P   Supplier Q   Supplier R   Supplier S   Supplier T
20 rows in set (0.060 sec)	<del>-</del>

# 2. Retrieve all customers and their orders, including customers who have not placed any orders.

MariaDB [textile] > SELECT Customer.Name, Orders.OrderID, Orders.OrderDate FROM Customer LEFT JOIN Orders ON Customer.CustomerID = Orders.CustomerID;

Name	OrderID	OrderDate
John Doe	1001	2023-06-15
Jane Smith	1002	2023-06-16
David Johnson	1003	2023-06-17
Sarah Williams	1004	2023-06-18
Michael Brown	1005	2023-06-19
Emily Jones	1006	2023-06-20
Christopher Taylor	1007	2023-06-21
Jessica Davis	1008	2023-06-22
Daniel Miller	1009	2023-06-23
Megan Wilson	1010	2023-06-24
Matthew Anderson	1011	2023-06-25
Olivia Thomas	1012	2023-06-26
Andrew Jackson	1013	2023-06-27
Ava White	1014	2023-06-28
Ryan Harris	1015	2023-06-29
Sophia Martin	1016	2023-06-30
William Thompson	1017	2023-07-01
Isabella Garcia	1018	2023-07-02
Ethan Martinez	1019	2023-07-03
Emma Robinson	1020	2023-07-04
+	·	++
20 rows in set (0.001	sec)	

# 3. Get the details of products along with corresponding warehouses names and with their capacities.

MariaDB [textile] > SELECT Product.ProductID, Product.ProductName, warehouse.warehousename, warehouse.capacity FROM Product RIGHT JOIN warehouse ON Product.ProductID = warehouse.ProductID;

ProductID	ProductName	warehousename			
1	Cotton T-shirt	Warehouse A	1000		
2	Denim Jeans	Warehouse B	1500		
3	Silk Scarf	Warehouse C	2000		
4	Linen Dress	Warehouse D	1200		
5	Wool Sweater	Warehouse E	1800		
6	Polyester Blouse	Warehouse F	800		
7	Velvet Skirt	Warehouse G	1500		
8	Cashmere Scarf	Warehouse H	2000		
9	Cotton Shorts	Warehouse I	1200		
10	Linen Tablecloth	Warehouse J	1800		
11	Chiffon Maxi Dress	Warehouse K	800		
12	Wool Coat	Warehouse L	1500		
13	Silk Blouse	Warehouse M	2000		
14	Velvet Jacket	Warehouse N	1200		
15	Cotton Socks	Warehouse 0	1800		
16	Linen Pillowcases	Warehouse P	800		
17	Polyester Blend Blazer	Warehouse Q	1500		
18	Wool Hat	Warehouse R	2000		
19	Silk Pajama Set	Warehouse S	1200		
20	Cashmere Sweater	Warehouse T	1800		
+		+	<del> +</del>		
20 rows in set (0.002 sec)					