

DATABASE MANAGEMENT SYSTEM

TABLE
DEVELOPMENT
OF ERD ON SQL



SUBMITTED TO:
MAM SEHRISH KHAN

REPRESENTATORS:
MUHAMMAD WALEED(110839)
AAKIF SALEEM(110840)

Tables

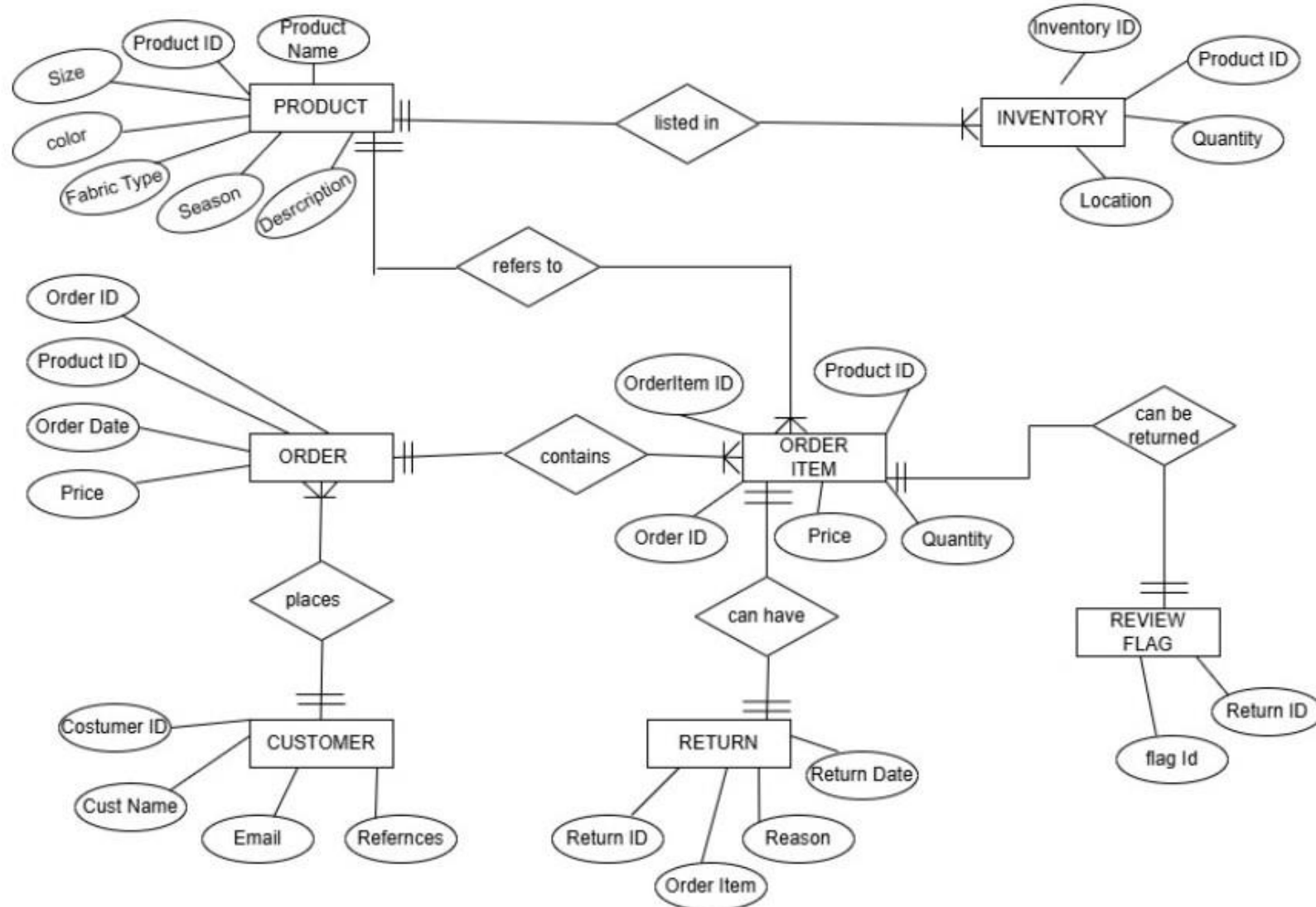
Development

Clothing Store Chain

GROUP # 3

110839 & 110840

Entity Relationship Diagram



Relational Schema / Table Schema

- 1.Product (Product ID, Product Name, Size, Fabric Type, Season, Description)
- 2.Inventory (Inventory ID, Product ID(FK), Quantity, Store Location)
- 3.OrderItem (OrderItem ID, Order ID(FK), Price, quantity, Product ID(FK))
- 4.Order (Order ID, Customer ID(FK), order date, total price)
- 5.Customer (Customer ID, name, email, preference)
- 6.Return (Return ID, OrderItem ID(FK),reason , Return data)
- 7.Review Flag (Flag ID, Return ID(FK))

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.0.40 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

Database
college
employee
home
information_schema
mysql
performance_schema
sys
waleed

8 rows in set (0.03 sec)

mysql> create database clothing_store_chain;

Query OK, 1 row affected (0.12 sec)

mysql> CREATE TABLE Product (

-> ProductID INT PRIMARY KEY AUTO_INCREMENT,
-> ProductName VARCHAR(100),
-> Size INT, -- Numeric sizes e.g. 32, 36
-> FabricType VARCHAR(50),
-> Season ENUM('Spring', 'Fall', 'Wedding'),
-> Description TEXT
->);

ERROR 1046 (3D000): No database selected

mysql> use clothing_store_chain;

Database changed

mysql> CREATE TABLE Product (

-> ProductID INT PRIMARY KEY AUTO_INCREMENT,

```
mysql> CREATE TABLE Product (  
-> ProductID INT PRIMARY KEY AUTO_INCREMENT,  
-> ProductName VARCHAR(100),  
-> Size INT, -- Numeric sizes e.g. 32, 36  
-> FabricType VARCHAR(50),  
-> Season ENUM('Spring', 'Fall', 'Wedding'),  
-> Description TEXT  
-> );  
Query OK, 0 rows affected (0.35 sec)  
  
mysql> drop TABLE Product;  
Query OK, 0 rows affected (0.20 sec)  
  
mysql> CREATE TABLE Product (ProductID INT(10) PRIMARY KEY,ProductName VARCHAR(100),Size INT(35),FabricType VARCHAR(50),Season ENUM('Spring', 'Fall', 'Wedding'),  
Description TEXT);  
Query OK, 0 rows affected, 2 warnings (0.31 sec)  
  
mysql> CREATE TABLE Inventory (InventoryID INT(10) PRIMARY KEY,ProductID INT,Quantity INT(10),StoreLocation VARCHAR(100));  
Query OK, 0 rows affected, 2 warnings (0.65 sec)  
  
mysql> CREATE TABLE OrderItem (OrderItemID INT(10) PRIMARY KEY,OrderID INT,ProductID INT,Price DECIMAL(10,2),Quantity INT);  
Query OK, 0 rows affected, 1 warning (0.63 sec)  
  
mysql> CREATE TABLE `Order` (OrderID INT(10) PRIMARY KEY,CustomerID INT,OrderDate DATE,TotalPrice DECIMAL(10,2));  
Query OK, 0 rows affected, 1 warning (0.42 sec)  
  
mysql> CREATE TABLE Customer (CustomerID INT(10) PRIMARY KEY,Name VARCHAR(100),Email VARCHAR(100),Preference TEXT);  
Query OK, 0 rows affected, 1 warning (0.59 sec)  
  
mysql> ^C  
mysql> CREATE TABLE Return (ReturnID INT(10) PRIMARY KEY ,OrderItemID INT,Reason ENUM('Defect', 'Size Mismatch', 'Not Matching Description'),ReturnDate DATETIME DEFAULT  
CURRENT_TIMESTAMP);  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Return (Retur  
nID INT(10) PRIMARY KEY ,OrderItemID INT,Reason ENUM('Defect', 'Siz' at line 1  
mysql> CREATE TABLE ProductReturn (  
-> ReturnID INT(10) PRIMARY KEY,  
-> OrderItemID INT,  
-> Reason ENUM('Defect', 'Size Mismatch', 'Not Matching Description'),  
-> ReturnDate DATETIME DEFAULT CURRENT_TIMESTAMP  
-> );  
Query OK, 0 rows affected, 1 warning (0.79 sec)  
  
mysql> CREATE TABLE ReviewFlag (FlagID INT(10) PRIMARY KEY,ReturnID INT,Reason TEXT,FlagDate DATETIME DEFAULT CURRENT_TIMESTAMP);  
Query OK, 0 rows affected, 1 warning (0.24 sec)
```

```
mysql> ^C
```

```
mysql> SHOW CREATE TABLE Product;
```

-----+

.....

```
1 row in set (0.00 sec)
```

1000

```
mysql> desc Product;
```

```
mysql> Desc Inventory;
```

Field	Type	Null	Key	Default	Extra
InventoryID	int	NO	PRI	NULL	
ProductID	int	YES		NULL	
Quantity	int	YES		NULL	
StoreLocation	varchar(100)	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> desc OrderItem;
```

Field	Type	Null	Key	Default	Extra
OrderItemID	int	NO	PRI	NULL	
OrderID	int	YES		NULL	
ProductID	int	YES		NULL	
Price	decimal(10,2)	YES		NULL	
Quantity	int	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> desc Order;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Order' at line 1
```

```
mysql> desc 'Order';
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ''Order'' at line 1
```

```
mysql> desc `Order`;
```

Field	Type	Null	Key	Default	Extra
OrderID	int	NO	PRI	NULL	
CustomerID	int	YES		NULL	
OrderDate	date	YES		NULL	
TotalPrice	decimal(10,2)	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> desc `Return`;
```

```
ERROR 1146 (42502): Table 'clothing_store_chain.return' doesn't exist
```

```
mysql> desc ProductReturn;
```



```
mysql> desc `Return`;
ERROR 1146 (42S02): Table 'clothing_store_chain.return' doesn't exist
mysql> desc ProductReturn;
```

Field	Type	Null	Key	Default	Extra
ReturnID	int	NO	PRI	NULL	
OrderItemID	int	YES		NULL	
Reason	enum('Defect','Size Mismatch','Not Matching Description')	YES		NULL	
ReturnDate	datetime	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

4 rows in set (0.00 sec)

```
mysql> desc ReviewFlag;
```

Field	Type	Null	Key	Default	Extra
FlagID	int	NO	PRI	NULL	
ReturnID	int	YES		NULL	
Reason	text	YES		NULL	
FlagDate	datetime	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

4 rows in set (0.00 sec)

```
mysql> alter TABLE Inventory ADD CONSTRAINT fk_inventory_product FOREIGN KEY (ProductID) REFERENCES Product(ProductID);
Query OK, 0 rows affected (0.91 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc Inventory
-> desc Inventory;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'desc Inventory' at line 2

```
mysql> desc Inventory;
```

Field	Type	Null	Key	Default	Extra
InventoryID	int	NO	PRI	NULL	
ProductID	int	YES	MUL	NULL	
Quantity	int	YES		NULL	
StoreLocation	varchar(100)	YES		NULL	

4 rows in set (0.00 sec)

mysql> ^C

mysql> ALTER TABLE `Order`

-> ALTER TABLE `Order` ADD CONSTRAINT fk_order_customer

-> ALTER TABLE `Order` ADD CONSTRAINT fk_order_customer FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'TABLE `Order`

ADD CONSTRAINT fk_order_customer

ALTER TABLE `Order` ADD CONSTRAINT ' at line 2

mysql> ALTER TABLE `Order` ADD CONSTRAINT fk_order_customer FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID);

Query OK, 0 rows affected (0.60 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc `Order`;

Field	Type	Null	Key	Default	Extra
OrderID	int	NO	PRI	NULL	
CustomerID	int	YES	MUL	NULL	
OrderDate	date	YES		NULL	
TotalPrice	decimal(10,2)	YES		NULL	

4 rows in set (0.00 sec)

mysql> ALTER TABLE OrderItem

-> ALTER TABLE OrderItem ADD CONSTRAINT fk_orderitem_order

-> FOREIGN KEY (OrderID) REFERENCES `Order`(OrderID);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'TABLE OrderIt

em ADD CONSTRAINT fk_orderitem_order

FOREIGN KEY (OrderID) REFERENC' at line 2

mysql> ALTER TABLE OrderItem ADD CONSTRAINT fk_orderitem_order FOREIGN KEY (OrderID) REFERENCES `Order`(OrderID);

Query OK, 0 rows affected (0.71 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql>

mysql> desc OrderItem;

Field	Type	Null	Key	Default	Extra
OrderItemID	int	NO	PRI	NULL	
OrderID	int	YES	MUL	NULL	
ProductID	int	YES		NULL	
Price	decimal(10,2)	YES		NULL	
Quantity	int	YES		NULL	

5 rows in set (0.00 sec)