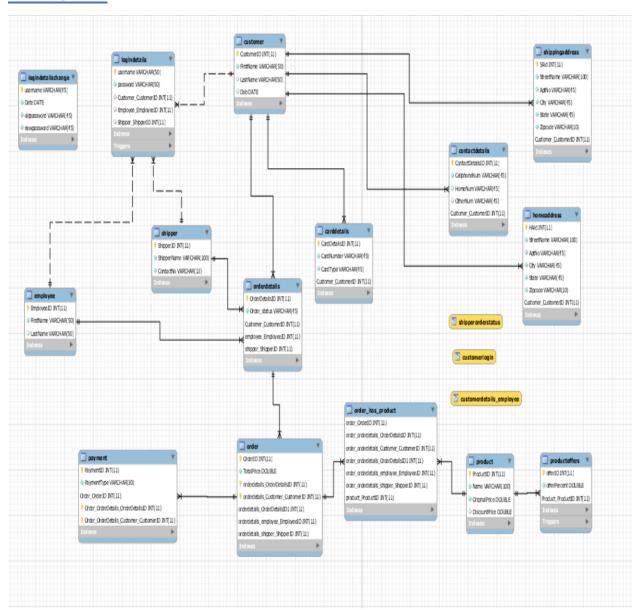
PROBLEM DEFINITION:

Pharmacists are integral entity in the healthcare system as they provide the
drugs and medicines to cure the disease. With increase in demands of drugs it is
important to provide the required items in the proper timeframe to accommodate
the cure. As technology is evolving at rapid pace, we can use the Online Medical
store system to abridge the chain between healthcare and pharmacist.

APPROACH TO PROBLEM:

 The online medical store aims to provide patients a convenient way to order medicines at home in a shorter time and with optimal price. With an efficient communication between the Customer, Organization and Shipper, the drugs can be delivered to customers in the shortest time frame and making it hassle-free for customer to buy it physically.

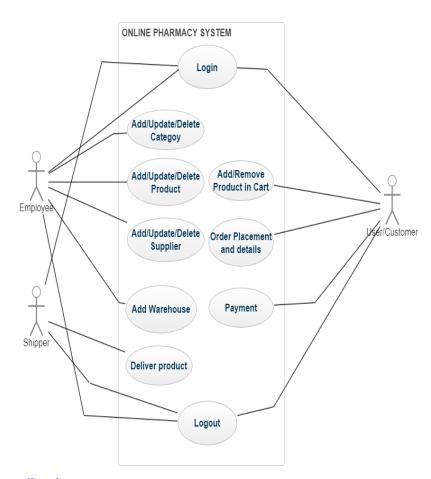
ER DIAGRAM:



Users of the System:

- Customer: Who can login into the website and buy drugs.
- *Employees of the organization*: Who will manage the orders from the customer and assign the orders to shipper.
- Shipper: Who will ship the orders to customer.

Use Case Diagram:



Normalization:

Customer TABLE:

1NF: it has repeated group as address and contact details. so, I have split it into contact details and home address and shipping address.

2NF: customer has customerid and username as candidate key but as password depends username it violates the 2nf properties. so, I have split username and password in another table called LoginDetails. (Similar with Shipper and Employee table)

Order Details TABLE:

3NF: Order Details has list of orders belongs to particular customer, employee and shipper. Although it is in 2NF, Product depends on order where order depends on the OrderDetails ID so there is a transitivity dependency.

I have split it into Order Table and there also product related information depends on ProductName that is why I have split it into Another table called Product.

Triggers:

• Trigger which maintains record for the username and its updated password

```
DELIMITER //
Create trigger LoginDetailsRecord
AFTER UPDATE ON LoginDetails
FOR EACH ROW
BEGIN
INSERT INTO LoginDetailsChange VALUES
(NEW.username,now(),OLD.password,NEW.password);
END://
```

OUTPUT

	username	Date	oldpassword	newpassword
•	amazon	2018-12-11	amazon 123	amazon@123
	NULL	NULL	NULL	NULL

Trigger which update the order total price

```
DELIMITER //
Create trigger UpdateOrderPrice
AFTER INSERT on order_has_product
For each row
BEGIN

SET @quantity = new.quantity;
SET @productid = new.Product_ProductID;
SET @price = (select discountprice from product where P roductID=@productid);
UPDATE onlinemedicalstore.order
SET Totalprice= @quantity*@price
WHERE onlinemedicalstore.order.OrderID = new.Order_OrderDetails_OrderDetailsID;
END://
```

OUTPUT:

	OrderID	TotalPrice	orderdetails_OrderDetailsID	orderdetails_Customer_CustomerID
•	1	34.2	1	1
	2	90	2	1
	3	228	3	2
	4	45	4	3
	NULL	NULL	NULL	HULL

• Trigger which updates the product discount price

OUTPUT:

	ProductID	Name	OriginalPrice	DiscountPrice
•	1	Hydrocodone	9.5	8.55
	2	Generic Zocor	12	10.2
	3	Azithromycin	19	15.2
	4	Amoxicillin	15	14.25
	5	Aceon	5	4.5
	6	Ibuprofen	20.7	0
	7	Diazepam	7	0
	8	Haloperidol	13.2	0
	NULL	NULL	NULL	NULL

USER DEFINED FUNCTION:

• To calculate age of the customer

create function findage(birthdate DATE) returns int DETERMINISTIC return year(curdate())-year(birthdate);

OUTPUT:

	firstName	LastName	Age
•	John	Cena	28
	Bruce	Wayne	38
	Jeff	Bezos	54

 To find of payment type of the customer online: credit/debit card

offline: cash on delivery

create function findpaymenttype(paymentType varchar(50))
returns varchar (50) DETERMINISTIC
return IF (paymentType in ("Credit card","Debit card"),"ONLINE","OFFLINE");

OUTPUT:

	Full Name	Payment Type Method
•	John Cena	ONLINE
	John Cena	ONLINE
	Bruce Wayne	OFFLINE
	Jeff Bezos	ONLINE

Views:

View for Employee to find out the status of customer order

create view ShipperOrderStatus as select concat_ws(" ",c.Firstname,c.Lastname) as "Full Name",o.Order_status as "Status" ,s.shippername as "Shipper Name",s.ContactNo as "Contact Number" from customer c inner join orderDetails o on c.CustomerID =o.Customer_CustomerID

inner join shipper s
on s.ShipperID = o.shipper_ShipperID;

OUTPUT:

	Full Name	Status	Shipper Name	Contact Number
۰	John Cena	Delivered	AmazonShipper	857000001
	Jeff Bezos	Delivered	AmazonShipper	857000001
	John Cena	Pending	BostonShipper	857000002
	Bruce Wayne	Pending	BostonShipper	857000002

View for Employee to find out the customer username and encrypted password

create view CustomerLogin as select concat_ws(" ",c.Firstname,c.Lastname) as "Full Name", I.username as "USERNAME",MD5(I.password) as "PASSWORD" from customer c inner join logindetails I on c.CustomerID=I.Customer_CustomerID;

OUTPUT:

	Full Name	USERNAME	PASSWORD
•	John Cena	john	6e0b7076126a29d5dfcbd54835387b7b
	Bruce Wayne	bruce	ff58ac7e8a159bfb312ee301d4880266
	Jeff Bezos	jeff	dc2af307c55523ce42701dbe43880d35

View for Employee to find out the how many orders customer has placed

create view CustomerDetails_Employee as select concat_ws(" ",c.Firstname,c.Lastname) as "Full Name",count(o.Customer_CustomerID) as "Number of Orders" from customer c inner join orderDetails o on c.CustomerID=o.Customer_CustomerID group by c.Firstname,c.Lastname

OUTPUT:

John Cena 2	
Bruce Wayne 1	
Jeff Bezos 1	

STORED PROCEDURE:

• To find out all the product which has discount >5

```
Delimiter //
create procedure productofferdiscount()
BEGIN

Select p.Name as "ProductName" ,p.OriginalPrice as "Original
Price",f.offerPercent as "Discount OFFER"
from product p
inner join productoffers f
on p.ProductID = f.Product_ProductID
where f.offerPercent>5;
END //
```

OUTPUT:

	ProductName	Original Price	Discount OFFER
•	Hydrocodone	9.5	10
	Generic Zocor	12	15
	Azithromycin	19	20
	Aceon	5	10

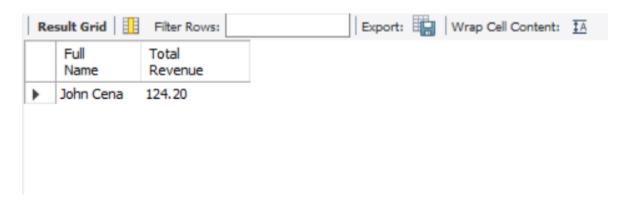
Procedure which will return total revenue generated from customer

```
Delimiter //
create procedure RevenuefromCustomer(in firstname varchar(50))
BEGIN

select concat_ws(" ",c.Firstname,c.Lastname) as "Full
Name",sum(round(ord.TotalPrice,2))as "Total Revenue"
from customer c
inner join onlinemedicalstore.order ord
on c.CustomerID = ord.orderdetails_Customer_CustomerID
where c.firstName = firstname
group by concat_ws(" ",c.Firstname,c.Lastname);
END //

call RevenuefromCustomer('John');
```

OUTPUT:



 Create User Employee which have access to all table except login details and login change table.

create user 'employee'@'localhost' identified by 'employee';

GRANT ALL ON onlinemedical store.employee to 'employee'@'localhost' GRANT ALL ON onlinemedical store.order to 'employee'@'localhost'

→ When employee group logins they are only able to view the details related to them where all the sensitive table information will be hidden.

DHAVAL SUTHAR

OUTPUT:

