< Design websites to buy accessories >

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<PHP>

<الدفعة الأولى>

2.1Data requirements:

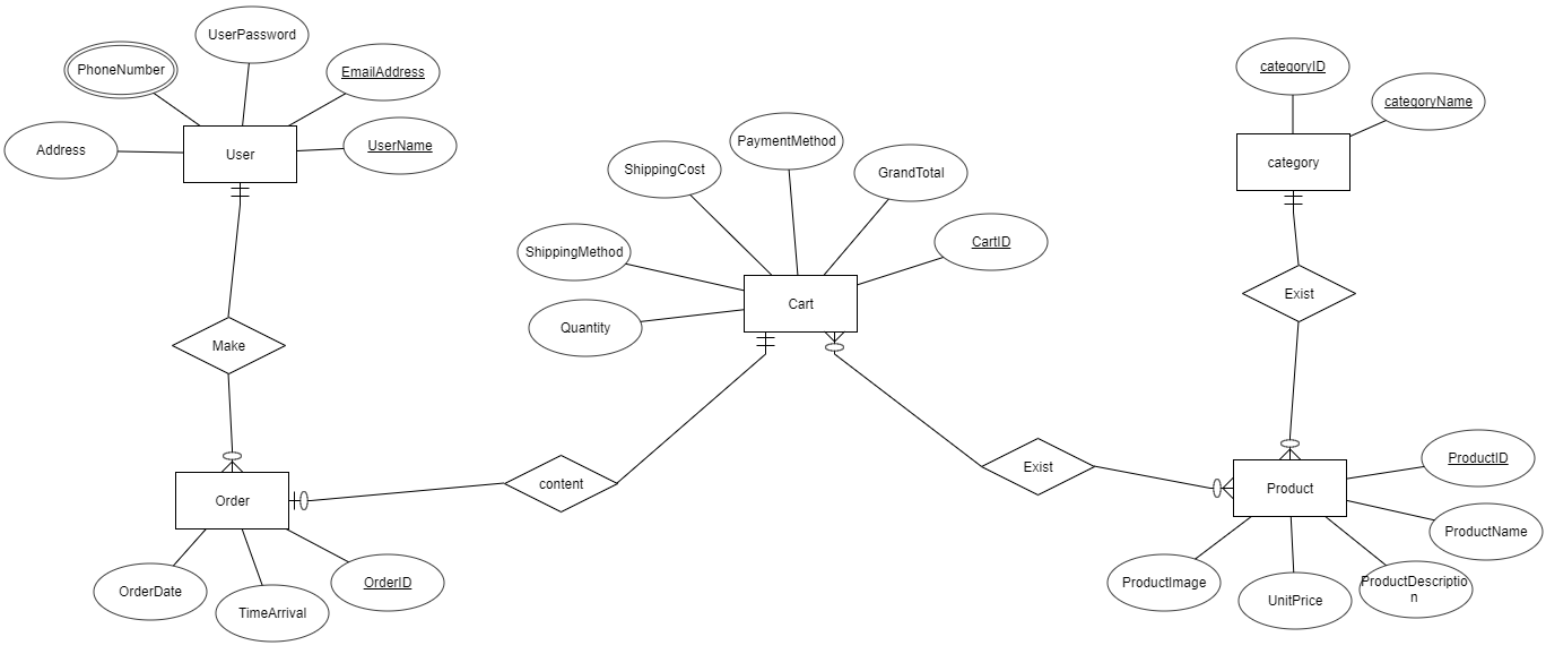
- The gallery sales different (products) of accessories, gallery consists of several sections. Each (Category) is described by a unique number (CategoryID) and a unique name (CategoryName).
- A product described by a unique item number (ProductID), an item name (ProductName), an item description (ProductDescription) an item image (ProductImage), an item price (UnitPrice) and each product exists in only one section of the gallery.
- A customer (User) is described by a unique name (UserName) it's describes by an email address (EmailAddress), user password (Password), home address (Address), phone numbers (PhoneNumber).
- An order is described by (OrderID) (unique), (OrderDate), a customer can make one order or more and may be don't make any order but each order must relating to only one customer and it's must contain of one product at least or many products and the order must to be contain of estimated time of arrival of the product (TimeArrival).
- There are carts to collect all products the customer want to buy it a cart is described by (CartID)(unique) and contant of name of every product the customer choose it (NameProduct), Image (ProductImage), Price (UnitPrice), number of products (Quantity), total price for all products the customer want to buy it (GrandTotal), method of shipping (ShippingMethod), cost of shipping (ShippingCost) and method 0f payment (PaymentMethod).

Data Requirements

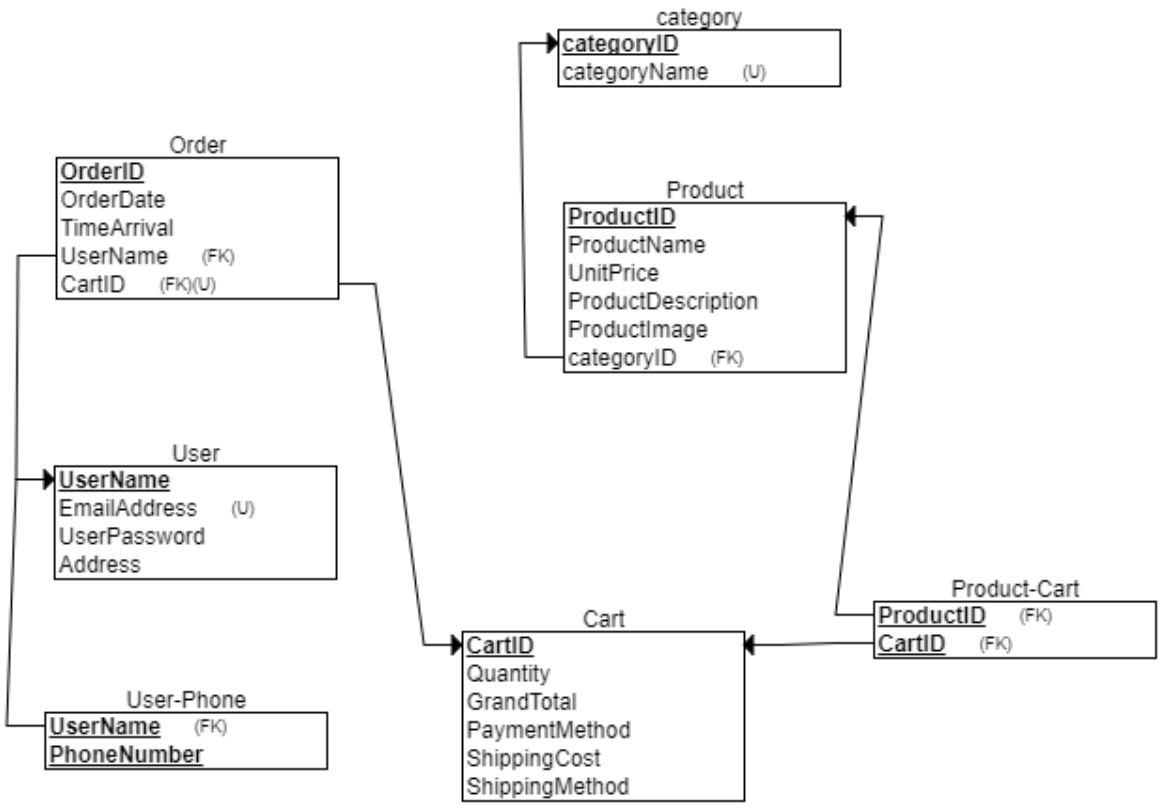
- يبيع الجاليرى عدد من المنتجات (Products) للأكسسوارات المختلف ينقسم الجاليرى لعدة اقسام, كل قسم (Category)يوصف برقم القسم وهو مميز لايتكرر unique (CategoryID) واسم القسم وهو مميز ولايتكرر (CategoryName) unique
- يوصف المنتج (Product) برقم المنتج unique (ProductID) اسم المنتج (ProductName) صورة المنتج (ProductImage) وصف مبسط للمنتج (ProductDescription) سعر الوحدة من هذا المنتج (UnitPrice)

  كل منتج موجود فى قسم واحد فقط من الجاليرى.
- يوصف العميل (User) بأسم مميز لا يتكرر (unique) اسم العميل (UserName) و البريد الالكترونى (EmailAddress)والرقم السرى (UserPassword) عنوان العميل (Address) وارقام التليفونات (PhoneNumber).
- يوصف امر الشراء (Order) برقم مميز لايتكرر unique (OrderID) وتاريخ شراء (OrderDate) ويسلم العميل اى عدد من أوامر الشراء ومن الممكن الا يسلم اوامر قطعيا ولكن امر الشراء الواحد يسلمه عميل واحد وامر الشراء يجب ان يطلب منتج واحد ع الأقل ويمكن ان يحتوى امر الشراء على اكثر من منتج ويحدد لكل امر شراء خاص بعميل معين تاريخ وصول المنتجات له (TimeArrival).
- يوجد كارت (Cart) لتجميع المنتجات التى يرغب العميل فى شراءها توصف الكارت برقم مميز لايتكرر خاص بكل عميل (CartID) وتحتوى على اسم كل منتج اختاره العميل (ProductName) صورته (ProductImage) و سعره (UnitPrice) وعدد الواحدات او الكميه من كل منتج (Quantity) والسعر الاجمالى لكل المنتجات التى يرغب العميل فى شرائها (GrandTotal) وطريقة الشحن (ShippingMethod) وتكلفه الشحن (ShippingCost) وطريقه الدفع (PaymentMethod).

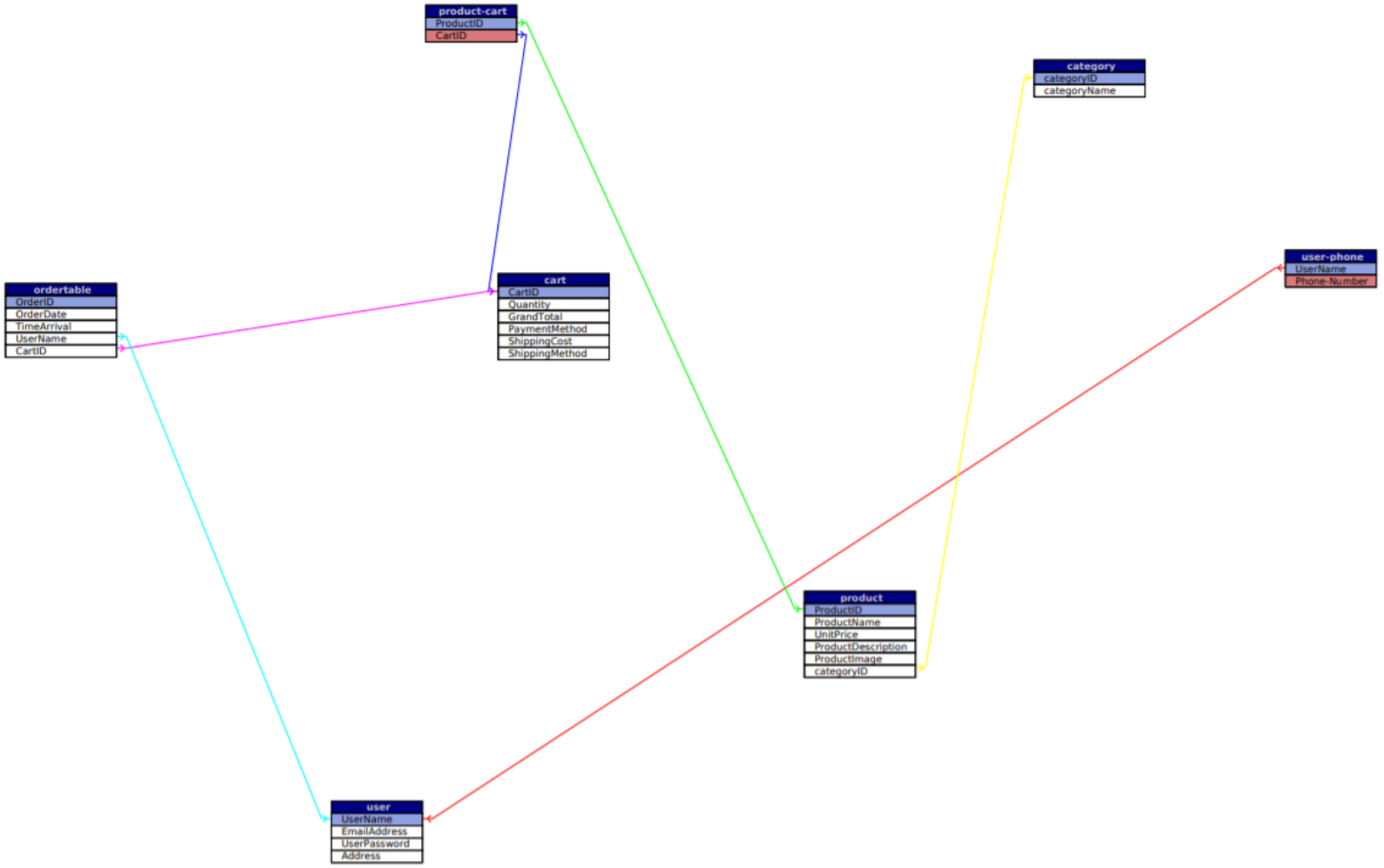
2.2ER Diagram:



2.3Relational schema:



2.4Database implementation:



2.5Data Dictionary:

Category table

CategoryID	CategoryName

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
CategoryID	Char	5	Primary Key	Id of category
CategoryName	Varchar	30	Unique	Name of category

Product table

ProductID	ProductName	UnitPrice	ProductDescription	ProductImage	categoryID

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
ProductID	Char	5	Primary Key	Id of product
ProductName	varchar	30	Not null	Name of product
UnitPrice	Decimal	4,2	Not null	Price of product
ProductDescription	Varchar	150	Null	Description of product
ProductImage	Varchar	100	Not null	Image of product
categoryID	Char	5	Foreign Key	Id of category

Cart table

CartID	Quantity	GrandTotal	PaymentMethod	ShippingCost	ShippingMethod

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
CartID	Char	5	Primary Key	Id of cart
Quantity	Char	3	Unique	Number of products
GrandTotal	Decimal	5,2	Not null	Total cost of products
PaymentMethod	Char	4	Not null	How to pay the price (cash or visa)
ShippingCost	Decimal	4,2	Not null	Cost of shipping
ShippingMethod	Varchar	30	Not null	Method of shipping

Product-Cart table

ProductID	CartID

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
ProductID	Char	5	Primary Key & Foreign Key	Id of product
CartID	Char	5	Primary Key & Foreign Key	Id of Cart

Order table

OrderID	OrderDate	TimeArrival	UserName

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
OrderID	Char	5	Primary Key	Id of order
OrderDate	Date	10	Not null	Date of order
TimeArrival	Datetime	6	Not Null	estimated time of arrival of the product
UserName	Varchar	30	Foreign Key	User Name of the customer

User table

UserName	EmailAddress	UserPassword	Address

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
UserName	Varchar	30	Primary Key	User Name of the customer
EmailAddress	Varchar	50	Unique	Email Address of the customer
UserPassword	Char	12	Not Null	Password of the customer account
Address	Varchar	150	Not Null	Home Address of the customer

User-Phone table

UserName	PhoneNumber

The following is the data dictionary for the above fields:

Filed Name	Data Type	Filed Lenght	Constrain	Description
UserName	Varchar	30	Primary Key & Foreign Key	User Name of the customer
PhoneNumber	Char	20	Primary Key	Phones number of the customer