

CASE STUDY



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Title:

Shipping Management System(SMS)



Shipping Management System Description:

When it comes to shipping management systems, they are web-based applications that assist organizations in managing their shipping requirements. Businesses can use it to track Products, make shipping labels, and get shipping prices. It is free to use. Businesses can also create shipping profiles, which contain information about the company's shipping preferences, through the system. This information can include the company's shipping carrier preferences, the sorts of products that the company sends, and the time frame for delivery of those products.

Business can also manage their shipping to orders with the help of the system. They can add Products to an order, track the progress of the order, and print a shipment confirmation after the order is complete. It also provides firms with the ability to obtain information about their shipments. Shipping information, such as the package's weight, size, and shipping destination, can be viewed by the recipient.

Businesses can also use the system to print shipping labels, which is a convenient feature. They can personalize the labels, include tracking information, and ship packages. It also enables businesses to request quotations from shipping firms through the system. This allows them to compare the rates of several shipping firms and select the one that best meets their requirements.

Why would you need a Shipping Management System?

A shipping Management System is software that helps you manage the shipping parts of your business. There are many reasons why many business owners are looking for ways to make their work more efficient or save money on overhead costs. A shipping Management System can help you achieve these things.

Consider how much time it takes to make all of your shipping arrangements by hand! It's not just arranging for pickup and delivery there's accounting, taxes, billing, and customers when they expect it! With Shipping Management System tools, management is easy.

Shipping Management System EDR:

This is the first phase of the development of the Shipping Management System, which will eventually be used as the basis for the production of the actual database that will be used by the system.

We will develop an entity relationship diagram for the Shipping Management System and describe the steps involved in creating the diagram.

Let us begin with symbols that are used in the ER Diagram.

The rectangle shape represents the entity that is being shown in the diagram below. At some point in the future, we will use this entity to make a database table for our Shipping Management System.

The shape of a diamond can show how a relationship works, like how it fits together. A lot will depend on this. A primary key to foreign key relationships is often the best way to do this.

The shape of the oval is a way to show the attribute for the entities specified. Columns or fields will be added to each table in the Shipping Management System, and this will be the case.

We will follow the 3 basic rules in creating the ER Diagram.

- 1) Identify all the entities.
- 2) Identify the relationship between entities and
- 3) Add meaningful attributes to our entities

In the Shipping Management System, we have the following entities.

- ❖ Customer
- ❖ Shipping
- ❖ Shipping Details




- ❖ Delivery Personnel
- ❖ Payment

Table with column name needed for this project:





Customer Entity has the following attributes:

TABLES:

Customers:

-  Customer Id (PK)
-  First Name
-  Middle Name
-  Last Name
-  Contact
-  CountryID (FK)
-  CityID (FK)
-  Postalcode
-  Email Address
-  Address
-  Username
-  Password
-  Account status

Shipping:

-  ShippingID (PK)
-  Reference Number
-  Shipping date
-  Customer Id (FK)

- + Amount
- + Status
- + Delivery personnel ID (FK)
- + Proof of transaction

Shipping Details:

- + Shipping Details ID (FK)
- + ShippingID (FK)
- + Item name
- + Item Details
- + Quantity
- + Amount

Delivery Personnel Details:

- + Delivery PersonnelID (FK)
- + First name
- + Middle name
- + Last name
- + Contact
- + Email Address
- + Address
- + Username
- + Password
- + Account Status

Payment:

- + PaymentID (FK)
- + Reference Number
- + Payment date
- + Amount

User:

- ✚ UserID (PK)
- ✚ User name
- ✚ Complete name
- ✚ Address
- ✚ Password
- ✚ Contact number

Country:

- ✚ CountryID(FK)
- ✚ Country name

Summary:

A notable benefit of ERD is that it can aid in the enhancement of communication and understanding between stakeholders, which can result in more efficient and effective system development overall. Improved system quality, decreased development time and costs, and a better grasp of system needs are some of the advantages of enterprise resource planning.

