

Relational Schema

Order(OrdNum, OrdTotal, OrdPayment, OrdAddr, OrdTrack, OrdStatus)

Customer(CustID, CustName)

Inventory(ProdID, ProdName, ProdPrice, ProdQty)

Employee(EmplID, EmpName)

PlacedOrder(CustID+, OrdNum+)

Updates(EmplID+, OrdNum+, ProdID+)

(+ means foreign key)

Relational Schema Description

ORDER - Before the order is placed, order total is calculated. Payment information and order address is collected. After order is placed, user will receive order number (primary key) and url to track their order and see order status.

Attributes-

OrdNum: This represents the order number and is the primary key.

OrdTotal: This holds the total amount of the order.

OrdPayment: This holds the type of payment used for the order.

OrdAddr: This holds the shipping address of the order.

OrdStatus: This holds the current status (processing, shipped, etc) of the order.

CUSTOMER - Each customer will be assigned a user ID (primary key) and customer name when order is placed.

Attributes-

CustID: This holds a unique ID given to each customer and is the primary key.

CustName: This holds the customer's name.

INVENTORY - Each item in the inventory is assigned a product id (primary key), product name, quantity and product price. Quantity is adjusted by how much users purchase, and employees.

Attributes-

ProdID: This holds a unique ID given to each product and is the primary key.

ProdName: This holds the name of the product.

ProdPrice: This holds the price of the product.

ProdQty: This holds the quantity of the product.

EMPLOYEE - Each employee has a ID (primary key) and a name.

Attributes-

EmpID: This holds a unique ID given to each employee and is the primary key.

EmpName: This holds the employee's name.

PLACES - When an order is placed, the order details may be accessed with the foreign keys customer id, and order number.

Attributes-

CustID: This is a foreign key that references the customer ID in the Customer table.

OrdNum: This is a foreign key that references the order number in the Order table.

UPDATES - Consist of all the orders and products updated by different employees.

Attributes-

EmpID: This is a foreign key that references the employee ID in the Employee table.

OrdNum: This is a foreign key that references the order number in the Order table.

ProdID: This is a foreign key that references the product ID in the Inventory table.