

Idea

Computer store

We're a company selling prebuilt computers. These computers contain different parts such as CPU, GPU, motherboard, storage, RAM, etc. We plan on having 5 tables, customers, orders, prebuilt computers, parts and a table containing which parts a prebuilt computer includes and which parts are used in which computers. The attributes we plan as of now to include in our tables are as followed:

Customers: Username, FName, Lname, PhoneNumber, ShippingAddress, InvoiceAddress

Orders: OrderID, Username, ComputerID, ShippingDate, OrderDate

PrebuiltComputers: ComputerID, ComputerName, Price, Stock

PrebuiltComputersParts: PCPID, ComputerID, PartsID

Parts: PartID, Name, Type, Brand, ReleaseYear, Description(Performance)

The program will run in the console using Python.

When a customer starts the program, he's prompted with a choice of logging in using a username or registering. When a customer is registering as a new user, he needs to fill in username, first name, last name, phone number, shipping address and invoice address. When a customer logs in he's prompted with a list of prebuilt computers that he's able to select. Once a prebuilt computer is selected a detailed list of what the prebuilt computer contains is output. The customer is also able to choose between two different choices: "Buy" and "Go back".

If the customer chooses to purchase a computer, a function will first check if the computer is in stock. If there is available stock, the stock will decrease and an order will be created with the information of the customer using a trigger

An admin user will have the ability to modify the current stock of prebuilt computers, see all orders made and all registered customers.

This solves the problem of dealing with customer orders as well as having a detailed up to date of our stock.

The main users will be men/boys and women/girls over 12 years old.

Our company only ships to customers in Sweden.

Our source data for parts comes mainly from the website: <https://pcpartpicker.com/> and customers are randomly generated

Possible extra ideas

Ideas for added complexity that are currently not implemented.

- Add balance to customer
- Add stock to individual parts