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CS 195

Final Project

Purchases Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Purchase\_ID (PK) | User\_ID | Inventory\_ID | Cost | Quantity | Date of Purchase |
|  |  |  |  |  |  |

Users Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| User\_ID (Pk) | First Name | Last Name | username | password | Email | Address | Phone Number | Admin |
|  |  |  |  |  |  |  |  |  |

Inventory Table

|  |  |  |
| --- | --- | --- |
| Inventory\_ID (PK) | Cost | Quantity |
|  |  |  |

Cart Table (Temporary Table)

|  |  |  |  |
| --- | --- | --- | --- |
| Inventory\_ID (PK) | Name | Price | Quantity |
|  |  |  |  |

Diagram

Description automatically generated

Description:

I created a point-of-sale system framework to be able to use at any kind of store. The inventory I used resembles a tech store. I chose a POS system because having worked in retail before I wanted to learn more about how it works from a programming standpoint. The application I created is a CLI POS system that allows a user to log in and have several options. Users can view the stores' products, add them to their cart, and then purchase the items. When a purchase is completed, it updates the inventory table with the updated quantities. It also adds the purchase to the purchases table with some information about the purchase. The user also has the option to view their recent purchases. In addition, the user can look at their user info and change their information as they see fit. If the user is an admin, they have the option to access the data in the tables. As an admin, you can view and edit the inventory and its current values. There is an option to visualize the inventory as a bar graph. The admin has the option to check the min and max of cost and quantity of items. This would allow the admin to check when they need to order new products. The admin can see the purchases that any user has made. They can check the average cost of a purchase and view a graph of how many sales were made in a day. The admin also has the option to view the users and turn a user into admin user..