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Increment 2

* Fixed error on adding product
* Changed Parameters on Products to be in the correct Order
* Changed parameters on Products to list the correct Order
* Added Exceptions on Products Inventory to add Exceptions on every input if incorrect
* Changed Product Inventory to not be allowed to change Product ID/Primary Key
* Fixed updating product error to connecting to Database.
* Page 6: Listing Product view was added to show in on a different line (Product ID:) (Product Name:) (Product Number:) (Date:) (Product Price:)
* Page 4: Changing Product will not display/allow the changing of Product ID/Primary Key, this has been removed.
* Page 5: Listing Purchase view was added to show on a different line (Purchase ID:) (Purchase Name:) (Purchase Number:) (Date:) (Purchase Price:)

Increment 3

* Added Foreign key Supplier into Order Table
* Added Foreign Key Product and Order into Purchase Table.
* Page 5: Added Quantity ID to be listed on Purchase Menu.
* Page 5: added Product ID to be listed on Order Menu.
* I have added If Statement to allow ONLY 11 integers to be inputted
* Pages 3-7: I have added an option CASE 6 for each Inventory Menu to exit out of Console instead of having to press 5 to go back to the main menu to exit from there.
* Changed int size on Databases to be able to input 11 integer characters long
* Pages 2-7: Changed All ID inputs to be integers only from 1-11 characters long
* Page 6: Changed the format of Purchase Listing to (Purchase ID) (Purchase Number) (Date) (Purchase price) (Purchase Quantity) (Purchase Order ID) (Purchase Product ID)

Increment 4

* Page 8: Listing Supplier view was added to show on a different line (Supplier ID: ) (Supplier Name: ) (Supplier Contract Price: ) (Supplier Contract Signed Date: )
* Page 8-9: I have added an option CASE 6 for each Inventory Menu to exit out of Console called “BACK” instead of having to press 5 to go back to the main menu to exit from there.
* Page 6: changed Foreign Key Purchase ID to Foreign Key Productid.
* Page 9: I have removed being able to change Primary Key/Order ID.
* Page 10: I have removed being able to change Primary Key/Supplier ID.
* Page 5: I have added Purchase Number into listing as well as in SQL Database.

Increment 5

* Page 6: Purchase list shows data from table Product
* Page 10: Order List shows data from table Purchase
* Page 6-11: Changed small typo in OrderMenu and PurchaseMenu when a Foreign Key doesn’t exist message had a typo that was changed from “exits” to “exist”
* Page 6-11: When a Foreign key ID doesn’t exist in both OrderMenu and PurchaseMenu

Instead of it closing the console down it now goes back to the inventory menu so end user can close the console himself.

# Application Overview

The application will allow the end user to Add, update, delete and list products, Orders, Purchases, and Suppliers from a Console Application utilizing a MySQL Database. The End user will be able to access multiple key tables connected via one another with ID numbers to make it easier to see data from multiple tables.

# Inventory Management Menu Options

From the Main Inventory management Menu, select option 1 to add a new Product, change an existing product, delete an existing product, or to look up a list of products. Selecting Option 2 allows you to add a new Purchase, change an existing Purchase, delete an existing Purchase, or list existing Purchases. Selecting Option 3 allows you to add a new Supplier, change an existing Supplier, delete an existing Supplier, or list existing Suppliers. Selecting Option 4 allows you to add a new Order, change an existing Order, delete an existing Order, or list existing Orders. Option 5 to Exit the program.

Text

Description automatically generated

# 

# Add a Product

Text

Description automatically generated with medium confidence

Below are the Purchase Fields, required values, and error messages.

|  |  |  |
| --- | --- | --- |
| Field | Description | Error Messages |
| Product Id | Required. Product Identification, Enter a Unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Product Number | Required. Product Identification number, Enter a unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Product Name | Required. Product Name value, Enter Name free format of 255 characters | You must Enter a value  [Must Enter a value of any characters from 1 to 255] |
| Product Price | Required. The suggested Product price. Enter dollars and cents without $ or commas | Enter only decimal numbers  [Reenter the price as a decimal number].  Number must be > 0  [Reenter a number for the price, decimal must be included] |
| Product Date of retrieval | Required. The product date it was retrieved in mm/dd/yyyy format. | You entered an Invalid date  [Enter a date with the proper format of mm/dd/yyyy] |

Figure 1

Click the enter button once you have all 5 requested information data entered. You will receive a message that the data has been Successfully entered in the database or an error stating that it wasn’t entered in the data base. Click Enter again to dismiss the prompt; If an error occurs you will see on the bottom right on the screen what caused the error so you can make your correction. You will not need to add ALL the data if error description message states not to.

# Change/Update Product

To Update Product, click 2 and then click Enter; you’ll be prompted to enter the Product ID you wish to Update. If you entered an incorrect Product ID, you would receive an error and will be sent back to entering another Product ID. Once you have successfully Updated the Product, you will be welcomed with a dialog ‘Product Update Successful’.

# Delete Product

To Delete a Product, click 3 and then click Enter, you’ll be prompted to enter the Product ID you wish to Delete. If you entered an incorrect Product ID, you would receive an error and will be sent back to entering another Product ID. Once you have successfully Deleted the Product, you will be welcomed with a dialog ‘Product Successfully Deleted’.

# Listing Product

To List Products, click 4 and then click Enter, you’ll be prompted to enter the Product ID you wish to be listed. If you entered an incorrect Product ID, you would receive an error and will be sent back to entering another Product ID. Once you have successfully entered a Product ID, you will be listed with all the Fields of that specific Product ID.

# 

# Add a Purchase

Text, letter

Description automatically generated

|  |  |  |
| --- | --- | --- |
| Field | Description | Error Messages |
| Purchase Id | Required. Purchase Identification, Enter a Unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Order Id | Required. Order Identification, Enter a Unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Product Id | Required. Product Identification, Enter a Unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Purchase Number | Required. Purchase Identification, Enter a Unique Integer only 1-11 characters long | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Purchase  Quantity | Required. Purchase Identification number, Enter a unique Integer only 1-11 Characters long | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be 1-11 characters long] |
| Purchase Price | Required. The suggested Purchase price. Enter dollars and cents without $ or commas | Enter only decimal numbers  [Reenter the price as a decimal number].  Number must be > 0  [Reenter a number for the price, decimal must be included] |
| Purchase Date | Required. The Purchase date it was retrieved in mm/dd/yyyy format. | You entered an Invalid date  [Enter a date with the proper format of mm/dd/yyyy] |

Figure 2

Click the enter button once you have all 4 requested information data entered. You will receive a message that the data has been Successfully entered in the database or an error stating that it wasn’t entered in the data base. Click Enter again to dismiss the prompt; If an error occurs you will see on the bottom right of the screen what caused the error so you can make your correction. You will not need to add ALL the data if error description message states not to.

# Change/Update Purchase

To Update Purchases, click 2 and then click Enter; you’ll be prompted to enter the Purchase ID you wish to Update. If you entered an incorrect Purchase ID, you would receive an error and will be sent back to entering another Purchase ID. Once you have successfully Updated the Purchase, you will be welcomed with a dialog ‘Purchase Update Successful’.

# 

# Delete Purchases

To Delete a Purchase, click 3 and then click Enter, you’ll be prompted to enter the Purchase ID you wish to Delete. If you entered an incorrect Purchase ID, you would receive an error and will be sent back to entering another Purchase ID. Once you have successfully Deleted the Purchase, you will be welcomed with a dialog ‘Purchase Successfully Deleted’.

# 

# Listing Purchases

To List Purchases, click 4 and then click Enter, you’ll be prompted to enter the Purchase ID you wish to be listed. If you entered an incorrect Purchase ID, you would receive an error and will be sent back to entering another Purchase ID. Once you have successfully entered a Purchase ID, you will be listed with all the Fields of that specific Purchase ID ALSO will be listed is the Products table.

# Add an Order

Text

Description automatically generated with medium confidence

Click the enter button once you have all 5 requested information data entered. You will receive a message that the data has been Successfully entered in the database or an error stating that it wasn’t entered in the data base. Click Enter again to dismiss the prompt; If an error occurs you will see on the bottom right of the screen what caused the error so you can make your correction. You will not need to add ALL the data if error description message states not to.

|  |  |  |
| --- | --- | --- |
| Field | Description | Error Messages |
| Order Id | Required. Order Identification, Enter a Unique free format of 255 characters | You must Enter a value  [Must Enter a value of any characters from 1 to 255] |
| Supplier ID | Required. Supplier Identification number, Enter a unique Integer | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be 1 – 11 characters long] |
| Order Number | Required. Order Identification number, Enter a unique Integer 1-11 characters long | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be 1 – 11 characters long] |
| Order Name | Required. Order Name value, Enter Name free format of 255 characters | You must Enter a value  [Must Enter a value of any characters from 1 to 255] |
| Order Price | Required. The suggested Order price. Enter dollars and cents without $ or commas | Enter only decimal numbers  [Reenter the price as a decimal number].  Number must be > 0  [Reenter a number for the price, decimal must be included] |
| Order Date of retrieval | Required. The Order date it was retrieved in mm/dd/yyyy format. | You entered an Invalid date  [Enter a date with the proper format of mm/dd/yyyy] |

Figure 3

# Change/Update Order

To Update Order, click 2 and then click Enter; you’ll be prompted to enter the Order ID you wish to Update. If you entered an incorrect Order ID, you would receive an error and will be sent back to entering another Order ID. Once you have successfully Updated the Order, you will be welcomed with a dialog ‘Order Update Successful’.

# Delete Order

To Delete an Order, click 3 and then click Enter, you’ll be prompted to enter the Order ID you wish to Delete. If you entered an incorrect Order ID, you would receive an error and will be sent back to entering another Order ID. Once you have successfully Deleted the Order, you will be welcomed with a dialog ‘Order Successfully Deleted’.

# Listing Orders

To List Orders, click 4 and then click Enter, you’ll be prompted to enter the Order ID you wish to be listed. If you entered an incorrect Order ID, you would receive an error and will be sent back to entering another Order ID. Once you have successfully entered an Order ID, you will be listed with all the Fields of that specific Order ID.

# Add a Supplier

Text

Description automatically generated

Click the enter button once you have all 5 requested information data entered. You will receive a message that the data has been Successfully entered in the database or an error stating that it wasn’t entered in the data base. Click Enter again to dismiss the prompt; If an error occurs you will see on the bottom right of the screen what caused the error so you can make your correction. You will not need to add ALL the data if error description message states not to.

|  |  |  |
| --- | --- | --- |
| Field | Description | Error Messages |
| Supplier Id | Required. Supplier Identification, Enter a Unique Integer only 1-11 characters | You must enter only integer numbers  [Enter only integer numbers]  You must enter an Integer  [Number must be > 11] |
| Supplier Name | Required. Supplier Name value, Enter Name free format of 255 characters | You must Enter a value  [Must Enter a value of any characters from 1 to 255] |
| Supplier Contract Price | Required. The suggested Supplier contract price. Enter dollars and cents without $ or commas | Enter only decimal numbers  [Reenter the price as a decimal number].  Number must be > 0  [Reenter a number for the price, decimal must be included] |
| Supplier Contract Date Signed | Required. The Supplier date it was retrieved in mm/dd/yyyy format. | You entered an Invalid date  [Enter a date with the proper format of mm/dd/yyyy] |

# Change/Update Supplier

To Update Supplier, click 2 and then click Enter; you’ll be prompted to enter the Supplier ID you wish to Update. If you entered an incorrect Supplier ID, you would receive an error and will be sent back to entering another Supplier ID. Once you have successfully Updated the Supplier, you will be welcomed with a dialog ‘Supplier Update Successful’.

# Delete Supplier

To Delete a Supplier, click 3 and then click Enter, you’ll be prompted to enter the Supplier ID you wish to Delete. If you entered an incorrect Supplier ID, you would receive an error and will be sent back to entering another Supplier ID. Once you have successfully Deleted the Supplier, you will be welcomed with a dialog ‘Supplier Successfully Deleted’.

# Listing Suppliers

To List Suppliers, click 4 and then click Enter, you’ll be prompted to enter the Supplier ID you wish to be listed. If you entered an incorrect Supplier ID, you would receive an error and will be sent back to entering another Supplier ID. Once you have successfully entered a Supplier ID, you will be listed with all the Fields of that specific Supplier ID.