

Stock Management Project

April 27, 2020

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[4]: import mysql.connector
import datetime
now = datetime.datetime.now()

def product_mgmt( ):
    while True :
        print("\t\t\t 1. Add New Product")
        print("\t\t\t 2. List Product")
        print("\t\t\t 3. Update Product")
        print("\t\t\t 4. Delete Product")
        print("\t\t\t 5. Back (Main Menu)")
        p=int (input("\t\tEnter Your Choice :"))
        if p==1:
            add_product()
        if p==2:
            search_product()
        if p==3:
            update_product()
        if p==4:
            delete_product()
        if p== 5 :
            break

def add_product():#
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    sql="INSERT INTO product(pcode,pname,pprice,pqty,pcat) values_
    ↪(%s,%s,%s,%s,%s)"
    code=int(input("\t\tEnter product code :"))
    search="SELECT count(*) FROM product WHERE pcode=%s;"
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        val=(code,)
        mycursor.execute(search,val)
        for x in mycursor:
            cnt=x[0]
        if cnt==0:
            name=input("\t\tEnter product name :")
            qty=int(input("\t\tEnter product quantity :"))
            price=float(input("\t\tEnter product unit price :"))
            cat=input("\t\tEnter Product category :")
            val=(code,name,price,qty,cat)
            mycursor.execute(sql,val)
            mydb.commit()
        else:
            print("\t\t Product already exist")

def search_product():
    while True :
        print("\t\t\t 1. List all product")
        print("\t\t\t 2. List product code wise")
        print("\t\t\t 3. List product category wise")
        print("\t\t\t 4. Back (Main Menu)")
        s=int (input("\t\tEnter Your Choice :"))
        if s==1 :
            list_product()
        if s==2 :
            code=int(input(" Enter product code :"))
            list_prcode(code)

        if s==3 :
            cat=input("Enter category :")
            list_prcat(cat)

        if s== 4 :
            break

def list_product():
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * from product"
    mycursor.execute(sql)

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        print("\t\t\t\t\t PRODUCT DETAILS")
        print("\t\t\t", "-"*105)
        print("\t\t\t code      name                                price  ↵
↪      quantity                                category")
        print("\t\t\t", "-"*105)
        for i in mycursor:
            print("\t\t\t", i[0], "\t", i[1], "\t\t\t\t\t", i[2], "\t  ↵
↪", i[3], "\t\t\t", i[4])
            print("\t\t\t", "-"*105)

def list_prccode(code):
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * from product WHERE pcode=%s"
    val=(code,)
    mycursor.execute(sql,val)
    print("\t\t\t\t\t PRODUCT DETAILS")
    print("\t\t\t", "-"*105)
    print("\t\t\t code      name                                price  ↵
↪      quantity                                category")
    print("\t\t\t", "-"*105)
    for i in mycursor:
        print("\t\t\t", i[0], "\t", i[1], "\t\t\t\t\t", i[2], "\t  ↵
↪", i[3], "\t\t\t", i[4])
        print("\t\t\t", "-"*105)

def list_prcat(cat):
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    print (cat)
    sql="SELECT * from product WHERE pcat =%s"
    val=(cat,)
    mycursor.execute(sql,val)
    clrscr()
    print("\t\t\t\t\t PRODUCT DETAILS")
    print("\t\t\t", "-"*105)
    print("\t\t\t code      name                                price  ↵
↪      quantity                                category")

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        print("\t\t", "-"*105)
        for i in mycursor:
            print("\t\t", i[0], "\t\t\t", i[1], "\t", i[2], "\t\t  □
↪", i[3], "\t\t", i[4])
            print("\t\t", "-"*105)

def update_product():
    mydb=mysql.connector.
↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    code=int(input("Enter the product code :"))
    qty=int(input("Enter the quantity :"))
    sql="UPDATE product SET pqty=pqty+%s WHERE pcode=%s;"
    val=(qty,code)
    mycursor.execute(sql,val)
    mydb.commit()
    print("\t\t Product details updated")

def delete_product():
    mydb=mysql.connector.
↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    code=int(input("Enter the product code :"))
    sql="DELETE FROM product WHERE pcode = %s;"
    val=(code,)
    mycursor.execute(sql,val)
    mydb.commit()
    print(mycursor.rowcount, " record(s) deleted");

def purchase_mgmt( ):
    while True :
        print("\t\t\t 1. Add Order")
        print("\t\t\t 2. List Order")
        print("\t\t\t 3. Back (Main Menu)")
        o=int (input("\t\tEnter Your Choice :"))
        if o==1 :
            add_order()

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        if o==2 :
            list_order()
        if o== 3 :
            break

def add_order():
    mydb=mysql.connector.
→connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    now = datetime.datetime.now()
    sql="INSERT INTO orders (orderid, orderdate, pcode, pprice, pqty,
→supplier, pcat) values (%s,%s,%s,%s,%s,%s,%s)"
    code=int(input("Enter product code :"))
    oid=now.year+now.month+now.day+now.hour+now.minute+now.second
    qty=int(input("Enter product quantity : "))
    price=float(input("Enter Product unit price: "))
    cat=input("Enter product category: ")
    supplier=input("Enter Supplier details: ")
    val=(oid,now,code,price,qty,supplier,cat)
    mycursor.execute(sql,val)
    mydb.commit()

def list_order():
    mydb=mysql.connector.
→connect(host="localhost",user="root",passwd="claw", database="stock")
    mycursor=mydb.cursor()
    sql="SELECT * from orders"
    mycursor.execute(sql)
    print("\t\t\t\t\t\t\t ORDER DETAILS")
    print("-"*85)
    print("orderid      Date      Product code      price      quantity      _
→Supplier      Category")
    print("-"*85)
    for i in mycursor:
        print(i[0],"\t",i[1],"\t",i[2],"\t",i[3],"\t",i[4],"\t_
→",i[5],"\t",i[6])
    print("-"*85)

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def db_mgmt( ):
    while True :
        print("\t\t\t 1. Database creation")
        print("\t\t\t 2. List Database")
        print("\t\t\t 3. Back (Main Menu)")
        p=int (input("\t\tEnter Your Choice :"))
        if p==1 :
            create_database()
        if p==2 :
            list_database()
        if p== 3 :
            break

def create_database():
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    print(" Creating PRODUCT table")
    sql = "CREATE TABLE if not exists product (\
        pcode int(4) PRIMARY KEY,\
        pname char(30) NOT NULL,\
        pprice float(8,2) ,\
        pqty int(4) ,\
        pcat char(30));"
    mycursor.execute(sql)
    print(" Creating ORDER table")
    sql = "CREATE TABLE if not exists orders (\
        orderid int(4)PRIMARY KEY ,\
        orderdate DATE ,\
        pcode char(30) NOT NULL , \
        pprice float(8,2) ,\
        pqty int(4) ,\
        supplier char(50),\
        pcat char(30));"
    mycursor.execute(sql)
    print(" ORDER table created")

def list_database():
    mydb=mysql.connector.
    ↪connect(host="localhost",user="root",passwd="claw",database="stock")
    mycursor=mydb.cursor()
    sql="show tables;"

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        mycursor.execute(sql)
        for i in mycursor:
            print(i)

def clrscr():
    print("\n"*5)

while True:
    clrscr()
    print("\t\t\t STOCK MANAGEMENT")
    print("\t\t\t *****\n")
    print("\t\t\t 1. PRODUCT MANAGEMENT")
    print("\t\t\t 2. PURCHASE MANAGEMENT")
    print("\t\t\t 3. DATABASE SETUP")
    print("\t\t\t 4. EXIT\n")
    n=int(input("Enter your choice :"))
    if n== 1:
        product_mgmt()
    if n== 2:
        purchase_mgmt()
    if n== 3:
        db_mgmt()
    if n== 4:
        break

```

STOCK MANAGEMENT

1. PRODUCT MANAGEMENT
2. PURCHASE MANAGEMENT
3. DATABASE SETUP
4. EXIT

Enter your choice :1

1. Add New Product

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2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)
Enter Your Choice :1
Enter product code :1021
Enter product name :Android OS Beta
Enter product quantity :60
Enter product unit price :6799
Enter Product category :Operating System
1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)
Enter Your Choice :2
1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)
Enter Your Choice :1

```

PRODUCT DETAILS

quantity	code	name	price
	category		
100	1001	Seagate 1 TB Backup Hard Disk	4100.0
50	1002	WD Passport 1TB Hard Disk	3500.0
60	1003	Adata 16GB 1866 XPG RAM	6100.0
150	1004	4 GB DDR 3 Corsair RAM	1500.0
50	1005	Intel i9 9900 K CPU	40900.0
60	1006	Intel i7 9700k CPU	29000.0
50	1007	AMD Ryzen 9 3900 X CPU	47900.0
80	1008	ASUS Prime X299A Motherboard	25850.0
120	1009	Asus ROG Maximus X Motherboard	24600.0
200	1010	Intex USB mouse Mouse	1000.0

150	1011	Dell Wireless Mouse	1300.0
		Mouse	
5000	1012	Zotac 730 4 GB DDR 3	5000.0
		Graphic Card	
150	1013	Gigabyte GeForce 2070	49000.0
		Graphic Card	
200	1014	LG CRT 15 Inches	2450.0
		Monitor	
150	1015	Dell SE198WFP 19"	7700.0
		Monitor	
600	1016	Acer 2300 Gaming Rock	1600.0
		keyboard	
150	1017	ASUS N55 SLIVER	1800.0
		Keyboard	
50	1018	Ms Windows 10 64bit	8700.0
		Operating System	
50	1019	Windows 8 64 bit	8700.0
		Operating System	
100	1020	Windows 10 pro 64 bit	9000.0
		Operating system	
60	1021	Android OS Beta	6799.0
		Operating System	

-
1. List all product
 2. List product code wise
 3. List product category wise
 4. Back (Main Menu)

Enter Your Choice :2

Enter product code :1013

PRODUCT DETAILS

quantity	code	name	price
		category	
150	1013	Gigabyte GeForce 2070	49000.0
		Graphic Card	

-
1. List all product
 2. List product code wise
 3. List product category wise
 4. Back (Main Menu)

Enter Your Choice :3

Enter category :Operating System

Operating System

PRODUCT DETAILS

quantity	code	name	price
	category		
50	1018 Operating System	Ms Windows 10 64bit	8700.0
50	1019 Operating System	Windows 8 64 bit	8700.0
100	1020 Operating system	Windows 10 pro 64 bit	9000.0
60	1021 Operating System	Android OS Beta	6799.0

1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)

Enter Your Choice :4

1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)

Enter Your Choice :3

Enter the product code :1008

Enter the quantity :20

Product details updated

1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)

Enter Your Choice :2

1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)

Enter Your Choice :1

PRODUCT DETAILS

quantity	code	name category	price
100	1001	Seagate 1 TB Backup Hard Disk	4100.0
50	1002	WD Passport 1TB Hard Disk	3500.0
60	1003	Adata 16GB 1866 XPG RAM	6100.0
150	1004	4 GB DDR 3 Cossair RAM	1500.0
50	1005	Intel i9 9900 K CPU	40900.0
60	1006	Intel i7 9700k CPU	29000.0
50	1007	AMD Ryzen 9 3900 X CPU	47900.0
100	1008	ASUS Prime X299A Motherboard	25850.0
120	1009	Asus ROG Maximus X Motherboard	24600.0
200	1010	Intex USB mouse Mouse	1000.0
150	1011	Dell Wireless Mouse Mouse	1300.0
5000	1012	Zotac 730 4 GB DDR 3 Graphic Card	5000.0
150	1013	Gigabyte GeForce 2070 Graphic Card	49000.0
200	1014	LG CRT 15 Inches Monitor	2450.0
150	1015	Dell SE198WFP 19" Monitor	7700.0
600	1016	Acer 2300 Gaming Rock keyboard	1600.0
150	1017	ASUS N55 SLIVER Keyboard	1800.0
50	1018	Ms Windows 10 64bit Operating System	8700.0
50	1019	Windows 8 64 bit Operating System	8700.0
100	1020	Windows 10 pro 64 bit Operating system	9000.0
	1021	Android OS Beta	6799.0

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1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)
Enter Your Choice :4
1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)
Enter Your Choice :4
Enter the product code :1021
1 record(s) deleted
1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)
Enter Your Choice :2
1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)
Enter Your Choice :1
PRODUCT DETAILS
-----
-----
quantity      code   name                      price
              category
-----
100            1001   Seagate 1 TB Backup      4100.0
              Hard Disk
50             1002   WD Passport 1TB          3500.0
              Hard Disk
60             1003   Adata 16GB 1866 XPG      6100.0
              RAM
150            1004   4 GB DDR 3 Corsair       1500.0
              RAM
50             1005   Intel i9 9900 K          40900.0
              CPU
60             1006   Intel i7 9700k           29000.0
              CPU
50             1007   AMD Ryzen 9 3900 X       47900.0
              CPU

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100	1008	ASUS Prime X299A	25850.0
		Motherboard	
120	1009	Asus ROG Maximus X	24600.0
		Motherboard	
200	1010	Intex USB mouse	1000.0
		Mouse	
150	1011	Dell Wireless Mouse	1300.0
		Mouse	
5000	1012	Zotac 730 4 GB DDR 3	5000.0
		Graphic Card	
150	1013	Gigabyte GeForce 2070	49000.0
		Graphic Card	
200	1014	LG CRT 15 Inches	2450.0
		Monitor	
150	1015	Dell SE198WFP 19"	7700.0
		Monitor	
600	1016	Acer 2300 Gaming Rock	1600.0
		keyboard	
150	1017	ASUS N55 SLIVER	1800.0
		Keyboard	
50	1018	Ms Windows 10 64bit	8700.0
		Operating System	
50	1019	Windows 8 64 bit	8700.0
		Operating System	
100	1020	Windows 10 pro 64 bit	9000.0
		Operating system	

```

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1. List all product
2. List product code wise
3. List product category wise
4. Back (Main Menu)
Enter Your Choice :4
1. Add New Product
2. List Product
3. Update Product
4. Delete Product
5. Back (Main Menu)
Enter Your Choice :5

```

STOCK MANAGEMENT

1. PRODUCT MANAGEMENT
2. PURCHASE MANAGEMENT
3. DATABASE SETUP
4. EXIT

Enter your choice :2

1. Add Order
2. List Order
3. Back (Main Menu)

Enter Your Choice :1

Enter product code :1006

Enter product quantity : 10

Enter Product unit price: 29000

Enter product category: Processor

Enter Supplier details: Harsh

1. Add Order
2. List Order
3. Back (Main Menu)

Enter Your Choice :2

ORDER DETAILS

orderid	Date	Product code	price	quantity	Supplier	
Category						
2102	2019-12-17	1004	1500.0	10	Chahat	RAM
2113	2019-12-17	1003	6100.0	10	Anshuka	RAM
2115	2019-12-17	1002	3500.0	10	Ansh	Hard
Disk						
2135	2019-12-17	1001	4100.0	1	Dhruva	Hard
Disk						
2136	2019-12-17	1001	4100.0	10	Aniket	Hard
Disk						
2149	2019-12-17	1005	40900.0	10	Dhruva	
Processor						
2160	2019-12-17	1006	29000.0	10	Harsh	
Processor						

1. Add Order
2. List Order
3. Back (Main Menu)

Enter Your Choice :3

STOCK MANAGEMENT

1. PRODUCT MANAGEMENT
2. PURCHASE MANAGEMENT
3. DATABASE SETUP
4. EXIT

Enter your choice :4