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In [33]: !pip install mysql-connector-python
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Requirement already satisfied: mysql-connector-python in c:\programdata\anaconda3\lib\site-packages (8.0.31)  
Requirement already satisfied: protobuf<=3.20.1,>=3.11.0 in c:\programdata\anaconda3\lib\site-packages (from mysql-connector-python) (3.20.1)

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In [34]: import mysql.connector as c  
from datetime import date
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In [35]: con = c.connect(host = "localhost", user = "root", passwd = "root", database="project1")
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if con.is_connected():  
    print("Successfully Connected ...")  
else:  
    print("Connection Failed...")
```

Successfully Connected ...

```
In [36]: # creating database_cursor to perform SQL operation  
db_cursor = con.cursor()
```

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In [37]: #Get database table  
db_cursor.execute("SHOW TABLES")  
for table in db_cursor:  
    print(table)
```

```
('bills',)  
( 'items',)  
( 'login',)  
( 'transaction',)
```



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In [44]: ##### Display the report menu
def report_menu():
    while True:
        clear()
        print('##### REPORT MENU #####')
        print('-'*100)
        print('1. Item List')
        print('2. Sell Between Dates')
        print('3. Last Bill information')
        print('4. Amount collected')
        print('5. Back to main Menu')
        choice = int(input('\nEnter your choice : '))
        if choice==1:
            item_list()
        if choice==2:
            date_wise_sell()
        if choice==3:
            last_bill_no()
        if choice==4:
            amount_collected()
        if choice==5:
            break

def search_menu():
    while True:
        clear()
        print('##### SEARCH MENU ##### ')
        print('-'*100)
        print('1. Item Name')
        print('2. Customer information')
        print('3. Bill information')
        print('4. Back to main Menu')
        choice = int(input('\nEnter your choice : '))
        if choice==1:
            search_item()
        if choice==2:
            search_customer()
        if choice==3:
            search_bill()
        if choice==4:
            break

def search_item():
    clear()
    item_name =input('Enter Item Name :')
    sql ='select * from items where item_name like "%{}%";'.format(item_name)
    db_cursor.execute(sql)
    records = db_cursor.fetchall()
    clear()
    print('Item Names start with :',item_name)
    print('-'*100)
    print('{:10s} {:30s} {:20s}'.format('Item ID','Item Name','Item Price'))
    print('-'*100)
    for row in records:
        print('{:<10d} {:30s} {:.2f}'.format(row[0],row[1],row[2]))
    print('-'*100)
    print('\nPress any key to continue....')
    wait= input()

#function to find out bill information
def search_bill():
    clear()
    bill_no = input('Enter Bill Number :')
    #SQL Query to take bill information from all tables.
    sql = 'select b.bill_id,b.name,b.phone,b.bill_date,t.item_id,t.qty,i.item_name,i.price from bills b,transaction t,items i \
        where b.bill_id = t.bill_id AND t.item_id= i.id and b.bill_id ={};'.format(bill_no)
    db_cursor.execute(sql)
    records = db_cursor.fetchall()
    n = db_cursor.rowcount
    clear()
    print("Bill No :",bill_no)
    print('-'*100)
    if n<=0:
        print('Bill number {} does not exists'.format(bill_no))
    else:
        print('Customer Name : {} Phone No :{}'.format(records[0][1],records[0][2]))
        print('Bill Date : {}'.format(records[0][3]))
        print('-'*100)
        print('{:10s} {:30s} {:20s} {:10s} {:30s}'.format('ID','Item Name','Qty','Price','Amount'))
        print('-'*100)
        for row in records:
            print('{:<10d} {:30s} {:<20d} {:.2f} {:>.2f}'.format(row[4],row[6],row[5],row[7],row[5]*row[7]))
        print('-'*100)
        print('\nPress any key to continue....')

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wait = input()

def search_customer():
    clear()
    cust_name = input('Enter customer Name :')
    #SQL query to take information from table.
    sql = 'select * from bills where name like "%{}%";'.format(cust_name)
    db_cursor.execute(sql)
    records = db_cursor.fetchall()
    clear()
    print('Customer Names started with :', cust_name)
    print('-'*100)
    print('{:10s} {:30s} {:20s} {:20s}'.format('Bill No', 'Customer Name', 'Phone No', 'Bill Date'))
    print('-'*100)
    for row in records:
        print('{:<10d} {:30s} {:20s} {:20s}'.format(row[0], row[1], row[2], str(row[3])))
    print('-'*100)
    print('\nPress any key to continue....')
    wait = input()

# Function to display amount collected between two dates
def amount_collected():
    clear()
    start_date = input('Enter start Date (yyyy-mm-dd) :')
    end_date = input('Enter End Date (yyyy-mm-dd) :')
    clear()
    print('Amount collected between: {} and {}'.format(start_date, end_date))
    print('-'*100)
    sql = 'select sum(t.qty*i.price) from bills b, transaction t, items i where b.bill_date between "{}" AND "{}" AND\
b.bill_id = t.bill_id and t.item_id = i.id;'.format(start_date, end_date)
    db_cursor.execute(sql)
    result = db_cursor.fetchone()
    print(result)
    print('\nPress any key to continue.....')
    wait = input()

# Create a report on date wise sell.
def date_wise_sell():
    clear()
    print('Date wise sell')
    print('-'*100)
    start_date = input('Enter start Date (yyyy-mm-dd) :')
    end_date = input('Enter End Date (yyyy-mm-dd) :')
    sql = 'select * from bills where bill_date between "{}" and "{}";'.format(start_date, end_date)
    db_cursor.execute(sql)
    records = db_cursor.fetchall()
    clear()
    print('Bill No      Customer Name      Phone No      Bill Date')
    print('-'*100)
    for row in records:
        print('{:10d} {:30s} {:20s} {}'.format(row[0], row[1], row[2], row[3]))
    print('-'*100)
    print('\n\nPress any key to continue....')
    wait = input()

# generate bill
def billing():
    clear()
    items = []
    bill_no = last_bill_no()
    if bill_no[0] == None:
        bill_no = 1
    else:
        bill_no = bill_no[0] + 1

    name = input('Enter customer Name :')
    phone = input('Enter Phone No :')
    t_date = date.today()
    while True:
        no = int(input('Enter item No (press 0 to stop) :'))
        if no <= 0:
            break
        else:
            item = find_item(no)
            if item == None:
                print('Item Not found ')
            else:
                qty = int(input('Enter Item Qty :'))
                item = list(item)
                item.append(qty)

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        items.append(item)

clear()
print('-----Jejurkar Super Store----- ')
print('          wakad          ')
print('          Phone:+91-7499190295, Email: jejurkaraniln72@gmail.com ')
print('Bill No :{}          Date :{}'.format(bill_no,t_date))
print('-'*100)
print('Customer Name :{}          Phone No :{}'.format(name,phone))
print('-'*100)
print('Item Id      Item Name          Price          Qty          Amount ')
print('-'*100)
total = 0
for i in items:
    print('{:<10d} {:25s} {:.2f}    {:^10d}    {:.2f}'.format(i[0],i[1],i[2],i[3],i[2]*i[3]))
    total = total + i[2]*i[3]
print('-'*100)
print('Total Payable amount : {}'.format(total))
print('\nPress any key to continue.....')
#insert data into tables
sql = 'insert into bills(name,phone,bill_date) values("{}","{}","{}");'.format(name,phone,t_date)
db_cursor.execute(sql)
for i in items:
    sql = 'insert into transaction(item_id,qty,bill_id) values({}, {}, {});'.format(i[0],i[3],bill_no)
    db_cursor.execute(sql)
wait= input()

# display all the items in items tables
def item_list():
    clear()
    sql="select * from items"
    db_cursor.execute(sql)
    records = db_cursor.fetchall()
    for row in records:
        print(row)
    print('\nPress any key to continue.....')
    wait = input()

# change details in items table
def modify_item():
    clear()
    print('Modify Item ')
    print('-'*100)
    item_id = input('Enter Item ID :')
    item_name = input('Enter new Item Name :')
    item_price = input('Enter Item Price :')
    sql = 'update items set item_name = "{}", price = {} where id={}'.format(item_id,item_name,item_price)
    db_cursor.execute(sql)
    print('\n\nRecord Updated Successfully.....')

def add_item():
    clear()
    print('Add New Item ')
    print('-'*100)
    item_name = input('Enter new Item Name :')
    item_price = input('Enter Item Price :')
    sql = 'select * from items where item_name like "{}% "'.format(item_name)
    db_cursor.execute(sql)
    record=db_cursor.fetchone()
    if record==None:
        sql = 'insert into items(item_name,price) values("{}",{ });'.format(item_name,item_price)
        db_cursor.execute(sql)
        print('\n\nNew Item added successfully.....\nPress any key to continue....')
    else:
        print('\n\nItem Name already Exist.....\nPress any key to continue....')
    wait= input()

def find_item(no):
    db_cursor.execute('select * from items where id ={}'.format(no))
    record = db_cursor.fetchone()
    return record

def last_bill_no():
    db_cursor.execute('select max(bill_id) from bills')
    record = db_cursor.fetchone()
    return record

def clear():

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for _ in range(65):
    print()

def main_menu():
    while True:
        clear()
        print(' *** MAIN MENU *** ')
        print('-'*100)
        print('1. Add New Item')
        print('2. Modify Item')
        print('3. Billing')
        print('4. Search Menu')
        print('5. Report Menu')
        print('6. Exit')
        choice = int(input('\n\nEnter your choice : '))
        if choice==1:
            add_item()
        if choice==2:
            modify_item()
        if choice==3:
            billing()
        if choice==4:
            search_menu()
        if choice==5:
            report_menu()
        if choice==6:
            break

if __name__=="__main__":
    clear()
    main_menu()
```

```
-----Jejurkar Super Store-----
                        wakad
Phone:+91-7499190295, Email: jejurkaraniln72@gmail.com
Bill No :8                      Date :2022-12-18
-----
Customer Name :sager           Phone No :87684365
-----
Item Id   Item Name           Price    Qty    Amount
-----
1         table                2000.00   1      2000.00
4         banana               40.00    2      80.00
-----
Total Payable amount : 2080.0

Press any key to continue.....


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