import sqlite3  
import datetime  
  
conn = sqlite3.connect("expenses.db")  
cur = conn.cursor()  
  
while True:  
 print("Select an option:")  
 print("1.Enter a new expense")  
 print("2.View expenses summary")  
  
 choice = int(input())  
  
 if choice == 1:  
 date = input("Enter the date of the expenses (YYYY-MM-DD): ")  
 description = input("Enter the description of the expense: ")  
 cur.execute("SELECT DISTINCT category FROM expenses")  
 categories = cur.fetchall()  
 print("Select a category by number:")  
 for idx,category in enumerate(categories):  
 print(f"{idx +1},{category[0]}")  
 print(f"{len(categories) +1}.Create a new category")  
 category\_choice=int(input())  
 if category\_choice==len(categories)+1:  
 category=input("enter the new category name: ")  
 else:  
 category=categories[category\_choice-1][0]  
 price=input("enter the price of the expense: ")  
 cur.execute("INSERT INTO expenses (Date,description,category,price) VALUES (?,?,?,?)",(date,description,category,price))  
 conn.commit()  
 elif choice==2:  
 print("Select an option:")  
 print("1.View all expenses")  
 print("2.View monthly expenses by category")  
 view\_choice=int(input())  
 if view\_choice==1:  
 cur.execute("SELECT\*FROM expenses")  
 expenses=cur.fetchall()  
 for expense in expenses:  
 print(expense)  
 elif view\_choice==2:  
 month=input("enter the month (MM): ")  
 year=input("enter the year (YYYY): ")  
 cur.execute("""SELECT category,SUM(price) FROM expenses"  
 WHERE strftime('%m',Date)=? AND strftime('%Y',Date)=?  
 GROUP BY category""",(month,year))  
 expenses=cur.fetchall()  
 for expense in expenses:  
 print(f"Category:{expense[0]},Total:{expense[1]}")  
 else:  
 exit()  
 else:  
 exit()  
 repeat = input("Would you like to do something else (y/n)?\n")  
 if repeat.lower() !="y":  
 break  
conn.close()  
bill=int(input("enter the amount of bill: "))  
tip=int(input("enter the percentage of tip? 10,12,15: "))  
people=int(input("how many people to split the bill: "))  
tip\_as\_percentage=tip/100  
total\_tip=bill\*tip\_as\_percentage  
total\_bill=bill+total\_tip  
bill\_per\_person=total\_bill/people  
final\_amount=round(bill\_per\_person,2)  
print(f"each person has to pay:Rs {final\_amount}")