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import csv
import os
FILE_NAME = "expenses.csv"
def initialize_file():
    if not os.path.exists(FILE_NAME):
        with open(FILE_NAME, mode="w", newline="") as file:
            writer = csv.writer(file)
            writer.writerow(["Date", "Category", "Amount", "Description"])
def add_expense():
    date = input("Enter date (YYYY-MM-DD): ")
    category = input("Enter category (Food, Travel, Shopping, etc.): ")
    amount = input("Enter amount: ")
    description = input("Enter description: ")

    with open(FILE_NAME, mode="a", newline="") as file:
        writer = csv.writer(file)
        writer.writerow([date, category, amount, description])

    print("\n Expense added successfully!\n")
def view_expenses():
    if not os.path.exists(FILE_NAME):
        print("\nNo expenses found!\n")
        return

    with open(FILE_NAME, mode="r") as file:
        reader = csv.reader(file)
        expenses = list(reader)

        if len(expenses) <= 1:
            print("\nNo expenses recorded yet!\n")
            return

        print("\n Your Expenses:\n")
        for row in expenses:
            print(" | ".join(row))
        print()
def total_expenses():
    if not os.path.exists(FILE_NAME):
        print("\nNo expenses found!\n")
        return

    total = 0
    with open(FILE_NAME, mode="r") as file:
        reader = csv.reader(file)
        next(reader) # Skip header row
        for row in reader:
            total += float(row[2])

    print(f"\n Total Expenses: ₹{total:.2f}\n")
def main():
    initialize_file()
    while True:
        print("\nExpense Tracker Menu:")
        print("1 Add Expense")
        print("2 View Expenses")
        print("3 View Total Expenses")
        print("4 Exit")

        choice = input("\nEnter your choice: ")

        if choice == "1":
            add_expense()
        elif choice == "2":
            view_expenses()
        elif choice == "3":
            total_expenses()

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        elif choice == "4":
            print("\n Exiting... Have a great day!\n")
            break
        else:
            print("\n Invalid choice! Please try again.\n")
if __name__ == "__main__":
    main()
```