# Sales Analyzer

A Python application for analyzing sales data from CSV files and generating reports.

## Overview

This application reads sales data from a CSV file, analyzes the transactions, calculates statistics, and generates a comprehensive report.

## Files

* main.py - The main script that orchestrates the workflow
* data\_reader.py - Module for reading sales data from CSV files
* analysis.py - Module for analyzing sales data and calculating statistics
* report\_writer.py - Module for generating formatted reports
* run\_sales\_analyzer.bat - Batch file to run the application and generate a report

## Usage

### Option 1: Using the Batch File

1. Place your sales data CSV file in this directory (or use the provided sample\_sales\_data.csv)
2. Double-click on run\_sales\_analyzer.bat to run the application
3. The application will process the data and generate:
   * A sales report text file with detailed analysis
   * A report.txt file (copy of the sales report)

### Option 2: Command Line

python main.py <input\_file> <output\_file>

Example:

python main.py sales\_data.csv sales\_report.txt

## CSV Format

The input CSV file should have the following columns:

* transaction\_id
* date
* amount
* quantity
* unit\_price
* customer
* email
* product
* category
* payment\_method
* region

See sample\_sales\_data.csv for an example.