

Automated Data Analysis Report

Report Generated: August 07, 2025

Data Source: sample_data.csv

Total Records: 20

Executive Summary

This report provides a comprehensive analysis of the dataset containing 20 records across 6 columns. The analysis includes statistical summaries and key insights derived from the data.

The data covers the period from January 15, 2024 to February 04, 2024.

Data Overview

Column Name	Data Type	Description
Date	object	Date/time information
Product	object	Categorical data
Sales	int64	Financial/sales data
Revenue	float64	Financial/sales data
Region	object	Geographic information
Sales_Rep	object	Financial/sales data

Statistical Summary

Sales Statistics:

Mean: 37.90 | **Median:** 35.00 | **Standard Deviation:** 16.32

Minimum: 15.00 | **Maximum:** 70.00 | **Total:** 758.00

Revenue Statistics:

Mean: 32990.00 | **Median:** 33900.00 | **Standard Deviation:** 10297.52

Minimum: 17500.00 | **Maximum:** 52500.00 | **Total:** 659800.00

Categorical Analysis

Product Analysis:

Unique values: 4

Top values:

- Laptop: 5 (25.0%)
- Desktop: 5 (25.0%)
- Tablet: 5 (25.0%)
- Smartphone: 5 (25.0%)

Region Analysis:

Unique values: 4

Top values:

- North: 5 (25.0%)
- South: 5 (25.0%)
- East: 5 (25.0%)
- West: 5 (25.0%)

Sales_Rep Analysis:

Unique values: 4

Top values:

- John Smith: 5 (25.0%)
- Alice Johnson: 5 (25.0%)
- Bob Wilson: 5 (25.0%)
- Carol Davis: 5 (25.0%)

Sample Data

Date	Product	Sales	Revenue	Region	Sales_Rep
2024-01-15 00:00:00	Laptop	25	37500.0	North	John Smith
2024-01-16 00:00:00	Desktop	15	22500.0	South	Alice Johnson
2024-01-17 00:00:00	Tablet	40	20000.0	East	Bob Wilson
2024-01-18 00:00:00	Smartphone	60	36000.0	West	Carol Davis
2024-01-19 00:00:00	Laptop	30	45000.0	North	John Smith
2024-01-20 00:00:00	Desktop	20	30000.0	South	Alice Johnson
2024-01-21 00:00:00	Tablet	35	17500.0	East	Bob Wilson
2024-01-22 00:00:00	Smartphone	55	33000.0	West	Carol Davis
2024-01-23 00:00:00	Laptop	28	42000.0	North	John Smith
2024-01-24 00:00:00	Desktop	18	27000.0	South	Alice Johnson

Key Insights

- Dataset contains 20 records across 6 columns
- Data spans 20 days from January 15, 2024 to February 04, 2024