

Automated Sales Anomaly Report

Total Revenue Processed: \$368,466.06

AI Executive Summary (Gemini):

Executive Summary:

Analysis of Q1 2019 sales data reveals a stable trend with a significant outlier detected on January 15th. Total revenue remains healthy at over \$368k, though daily volatility requires monitoring. The detected anomaly suggests a non-standard business event rather than organic growth.

Statistical Anomaly Analysis:

On 2019-01-15, sales reached \$54,731.77, resulting in a Z-Score of 9.17. This value is statistically improbable ($Z > 3$) and indicates a deviation of over 9 standard deviations from the mean, likely caused by a bulk B2B transaction or data entry error.

Actionable Steps:

- 1. Audit the invoice records for Jan 15th to verify if this was a legitimate bulk purchase or a system glitch.
- 2. Implement an automated alert system for daily sales exceeding \$10,000 to validate transactions in real-time.

Detected Anomalies Z-Score > 2.5

Date	Total Sales(\$)	Z-Score
2019-01-15	54731.77	9.17