

Informe de Análisis Automatizado

Agrupamiento (K-Means):

- Alta rotación: 1804 (41.1%)
- Alta promoción: 1268 (28.9%)
- Alta rotación (2): 1312 (29.9%)

Valores atípicos:

- Z-score (por columna):
 - ? Units Returned: 0.6%
 - ? Units Sold: 0.2%
 - ? Price: 0.0%
 - ? Revenue: 0.0%
 - ? Discount: 0.0%
- IQR (por columna):
 - ? Units Returned: 7.2%
 - ? Units Sold: 0.9%
 - ? Price: 0.0%
 - ? Revenue: 0.0%
 - ? Discount: 0.0%
- Isolation Forest (por fila): 5.0% de registros atípicos.

Correlaciones destacadas (|r|):

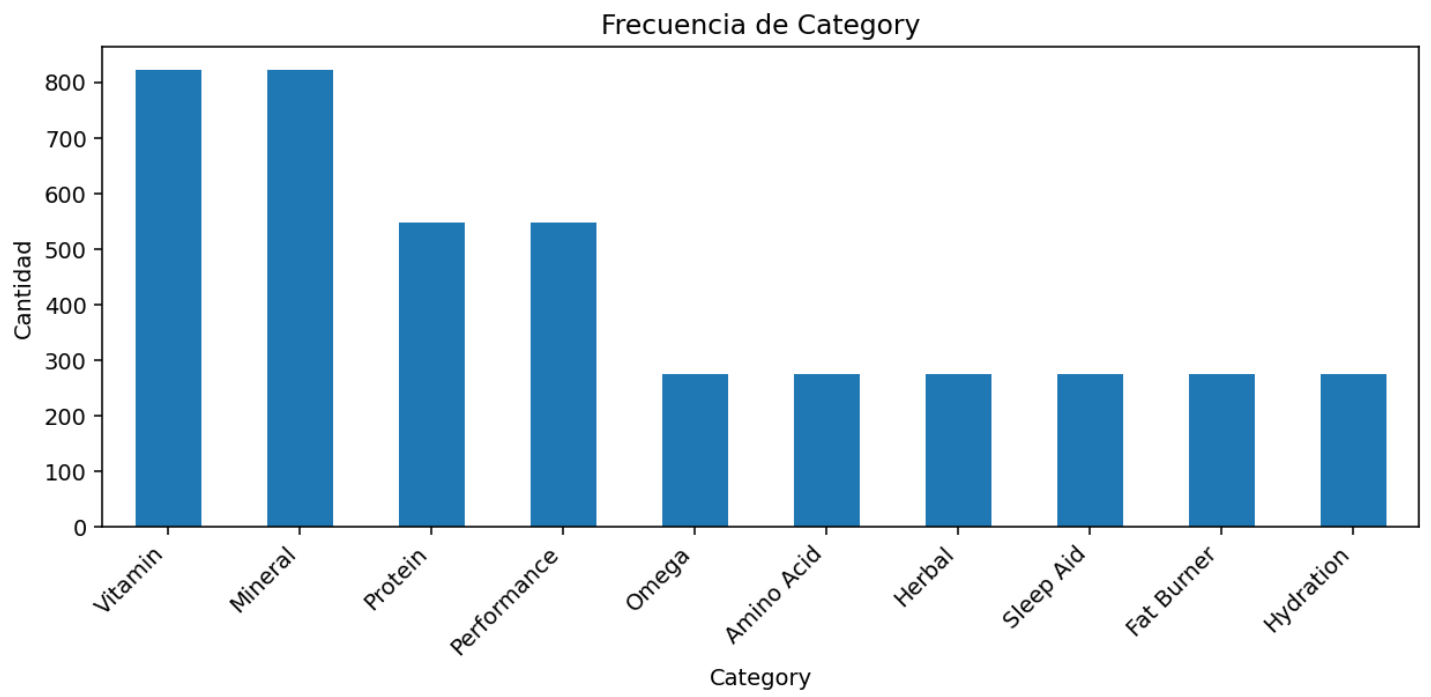
- Price ? Revenue: 0.977
- Revenue ? Units Sold: 0.210
- Units Returned ? Units Sold: 0.117
- Price ? Units Sold: 0.014
- Discount ? Revenue: 0.013

Sugerencias basadas en detección de atípicos:

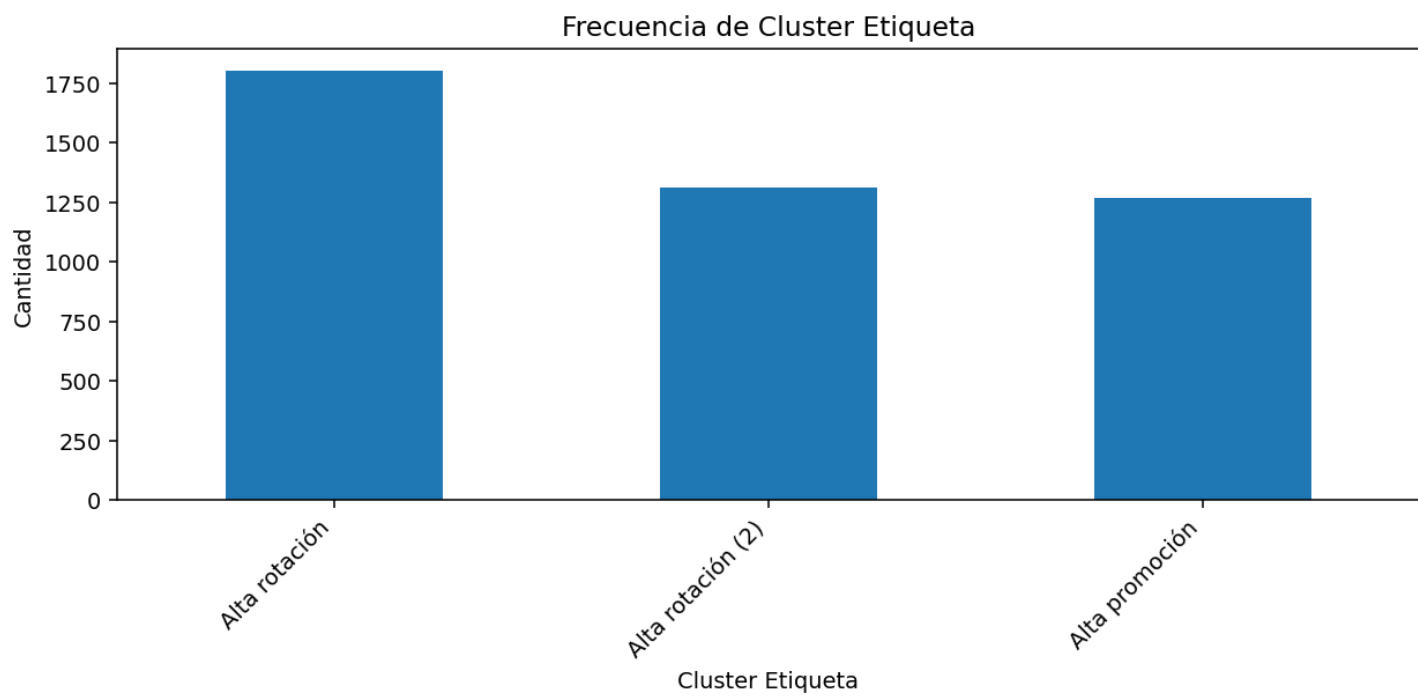
- IQR detectó numerosos extremos. Revisa outliers por fuente de dato (errores de captura) o aplica límites por percentil.
- Isolation Forest marcó múltiples registros. Prioriza inspección manual de esos casos y valida reglas de negocio.

Sugerencias basadas en correlaciones fuertes:

- Se detectaron relaciones muy fuertes. Considera eliminar/combinar variables para evitar multicolinealidad:
 - ? Price ? Revenue: $r = 0.98$
- Si vas a modelar, evalúa VIF/regularización o selecciona una sola variable por grupo correlacionado.

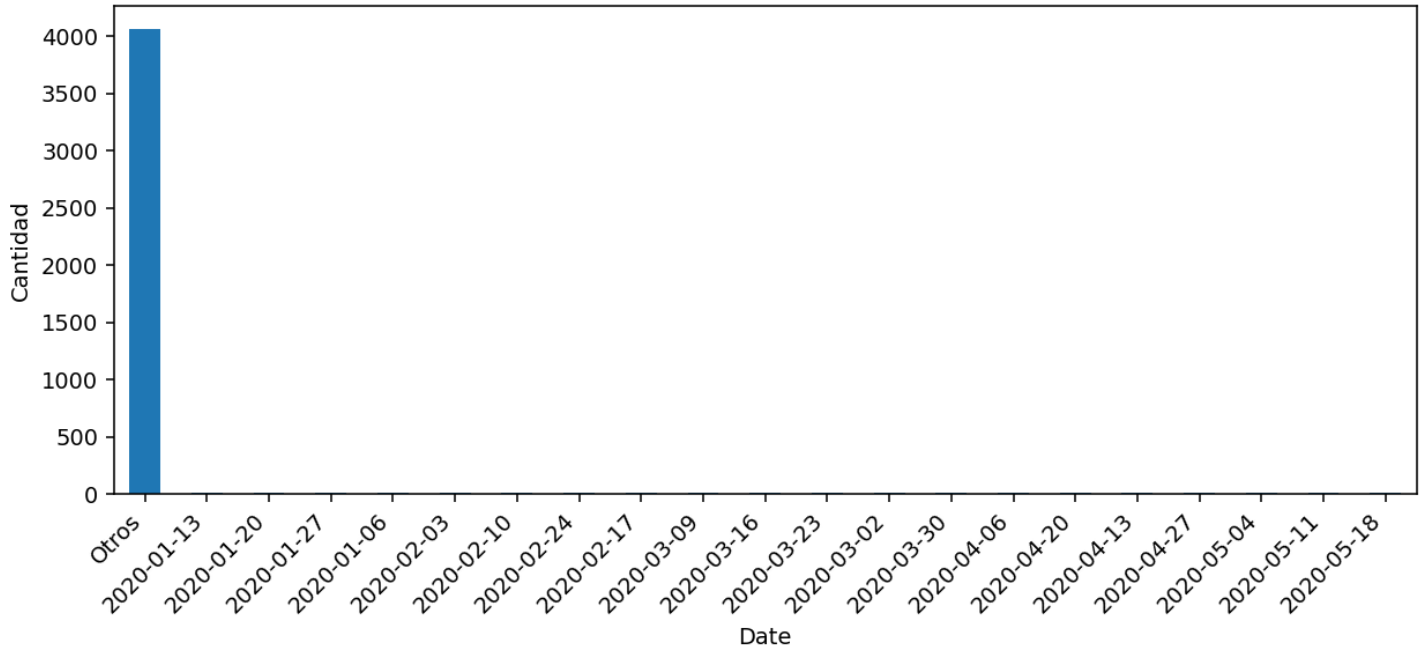


barras_Category.png

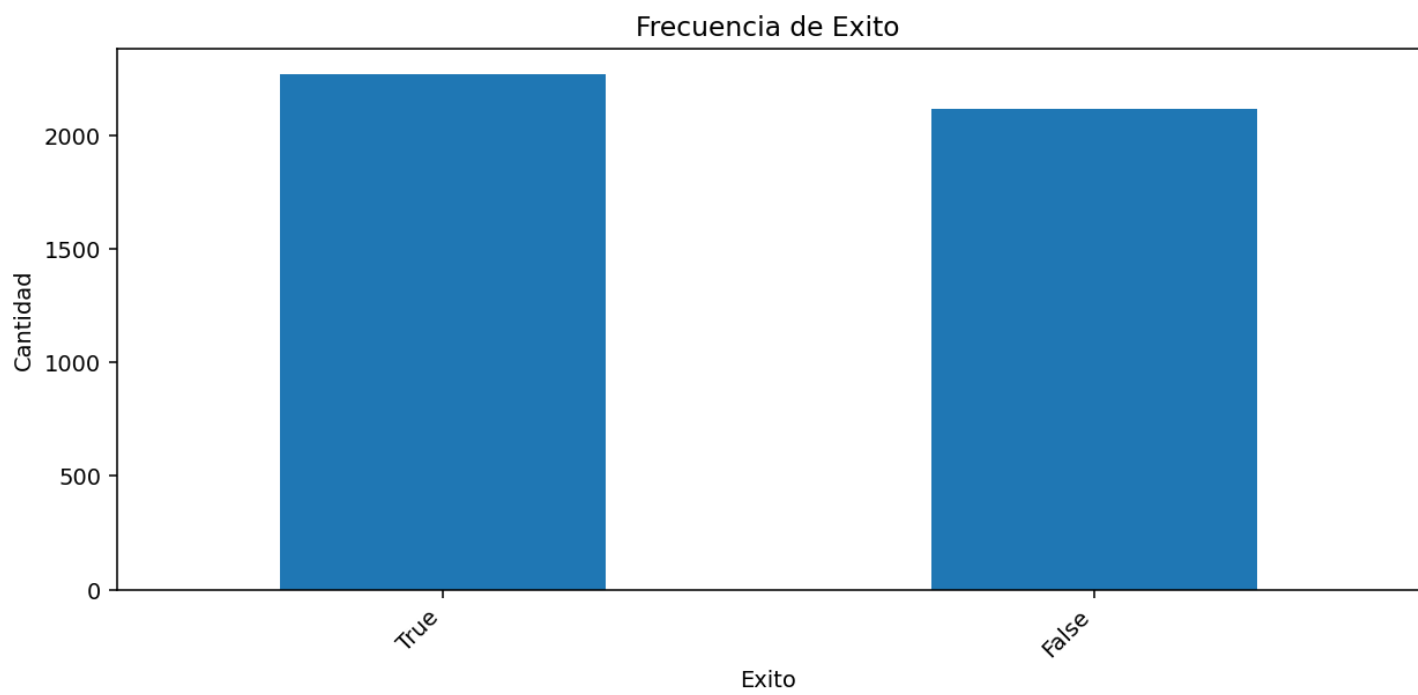


barras_Cluster_Etiqueta.png

Frecuencia de Date

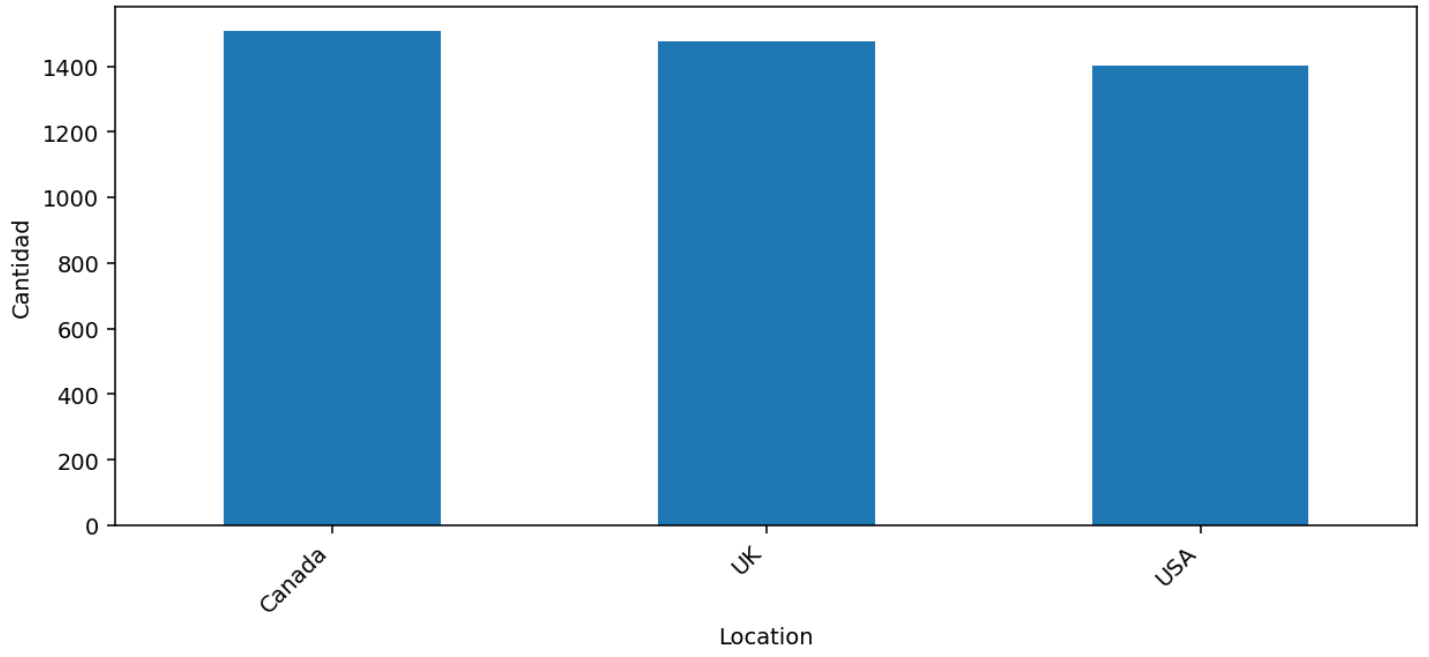


barras_Date.png



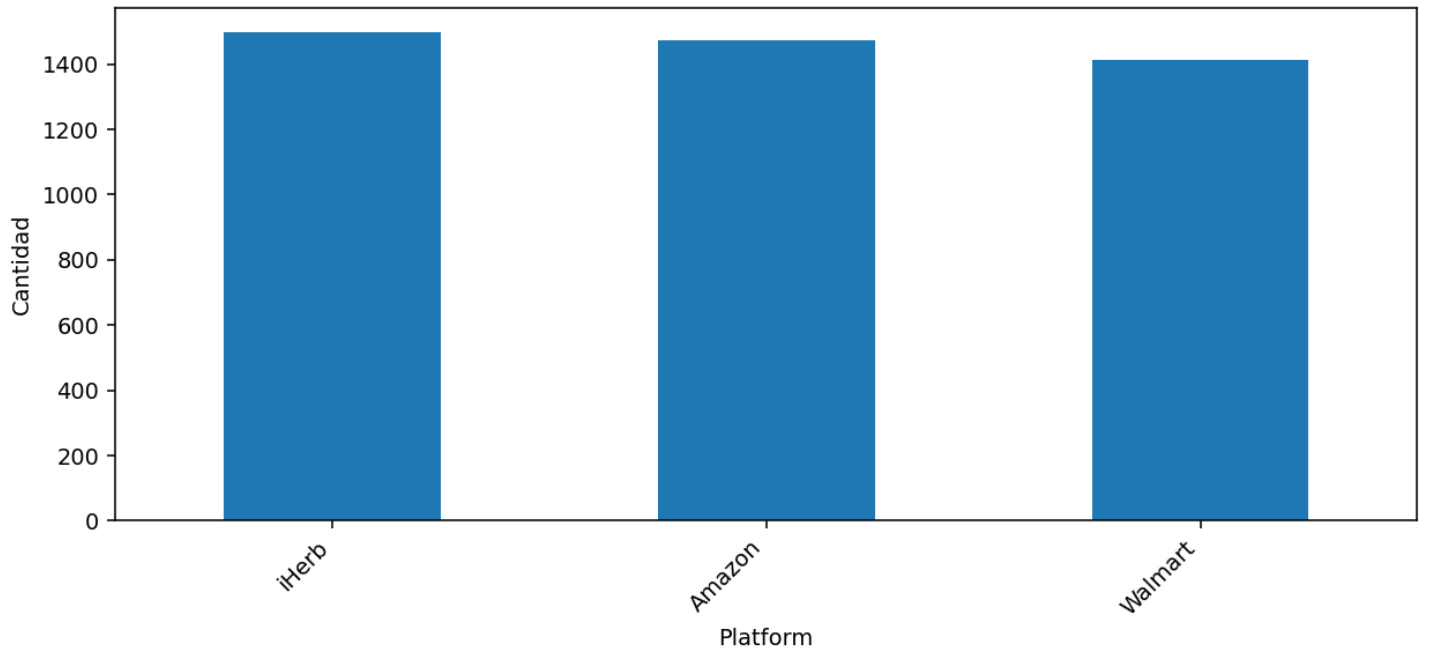
barras_Exito.png

Frecuencia de Location

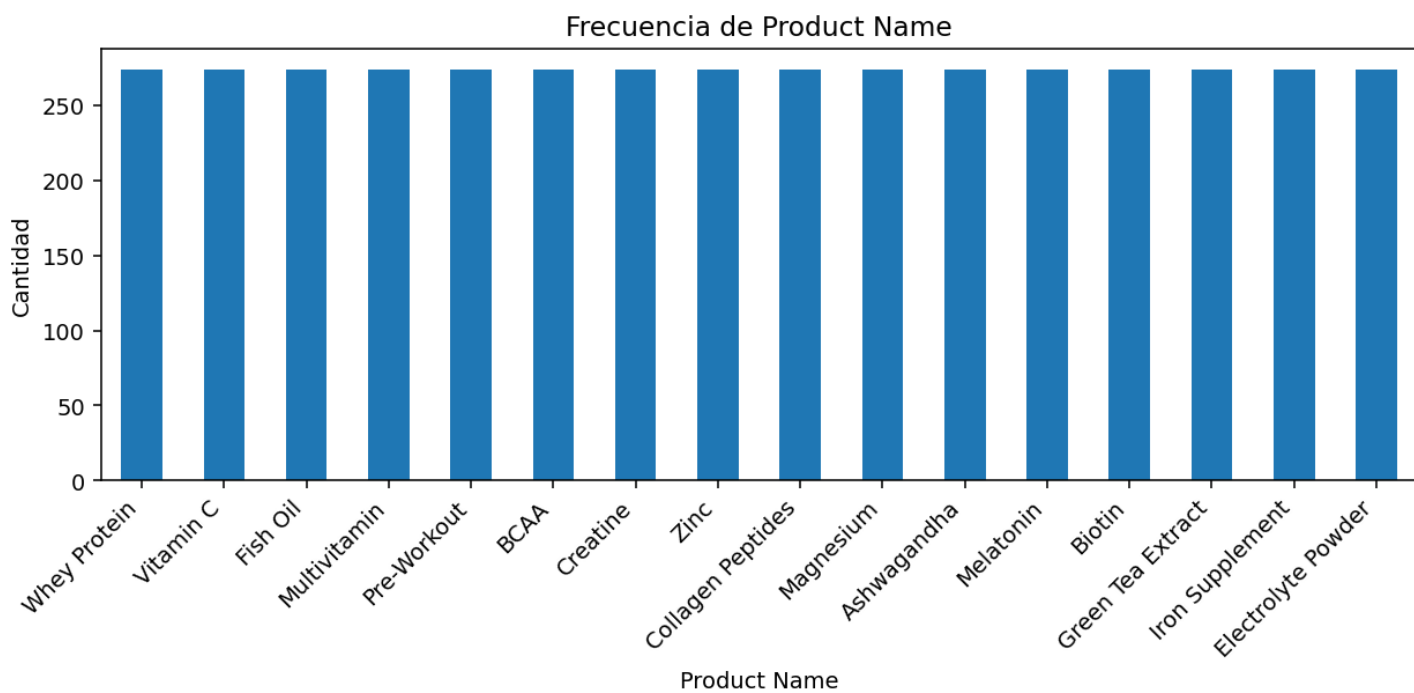


barras_Location.png

Frecuencia de Platform

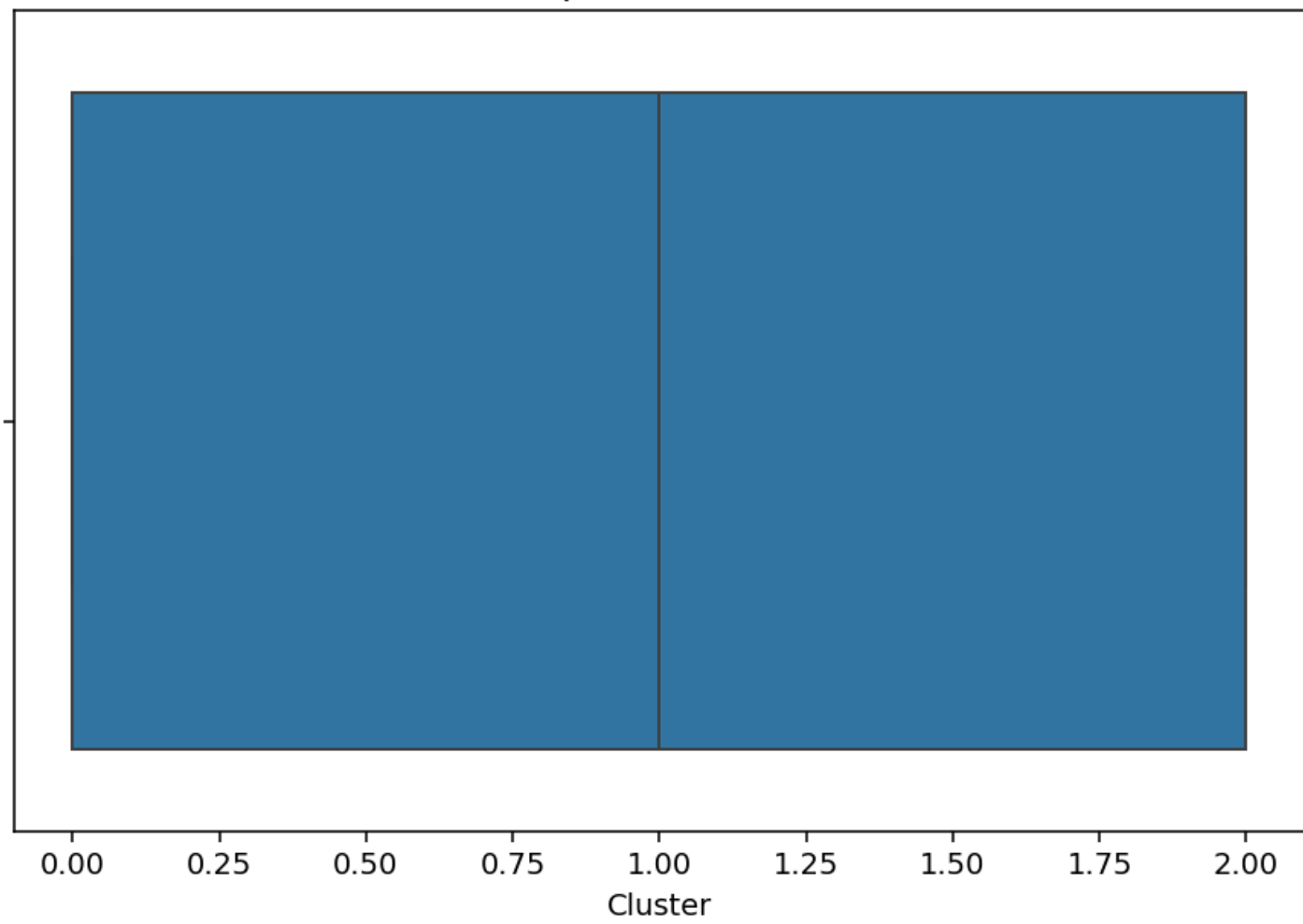


barras_Platform.png



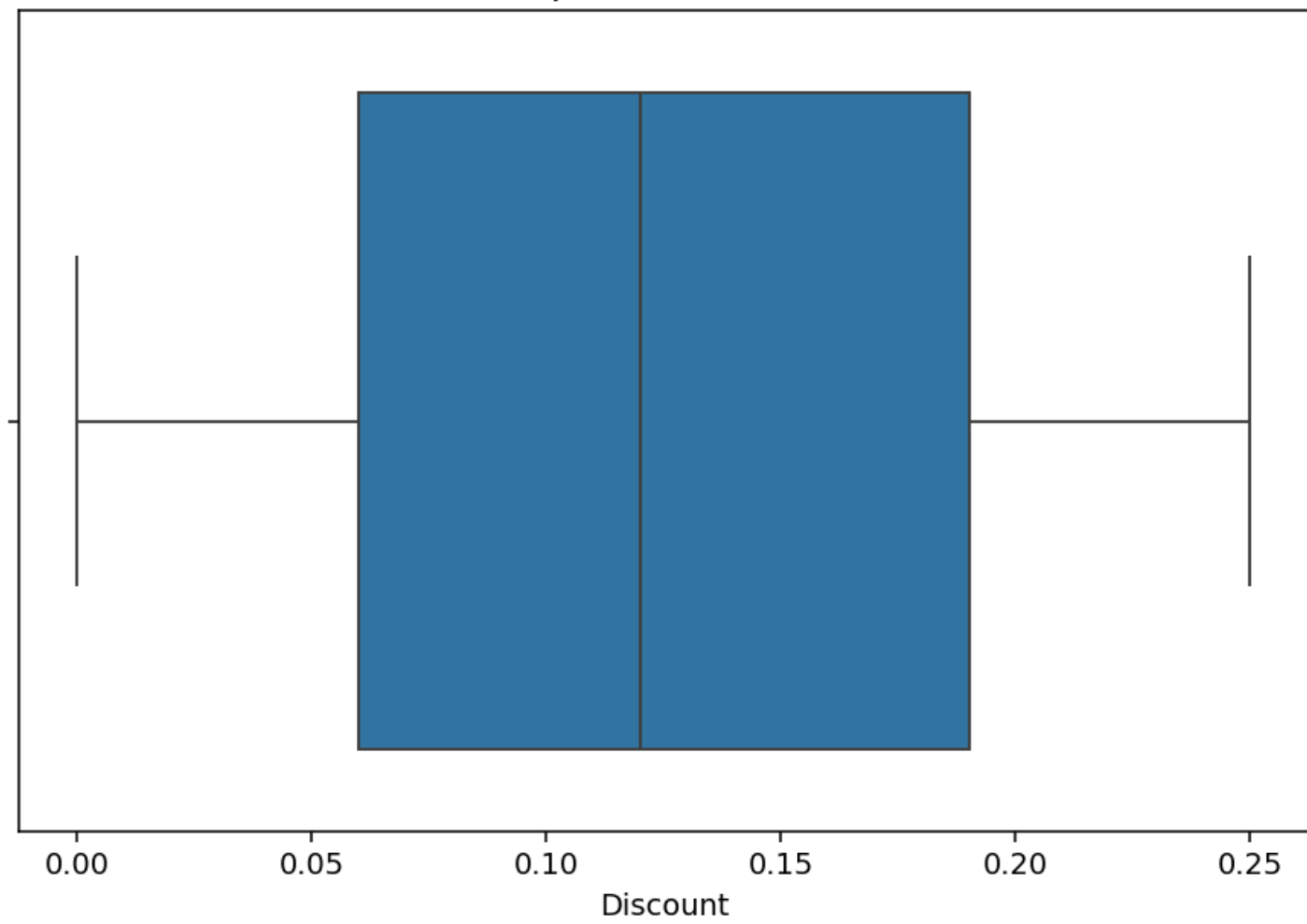
barras_Product_Name.png

Boxplot de Cluster



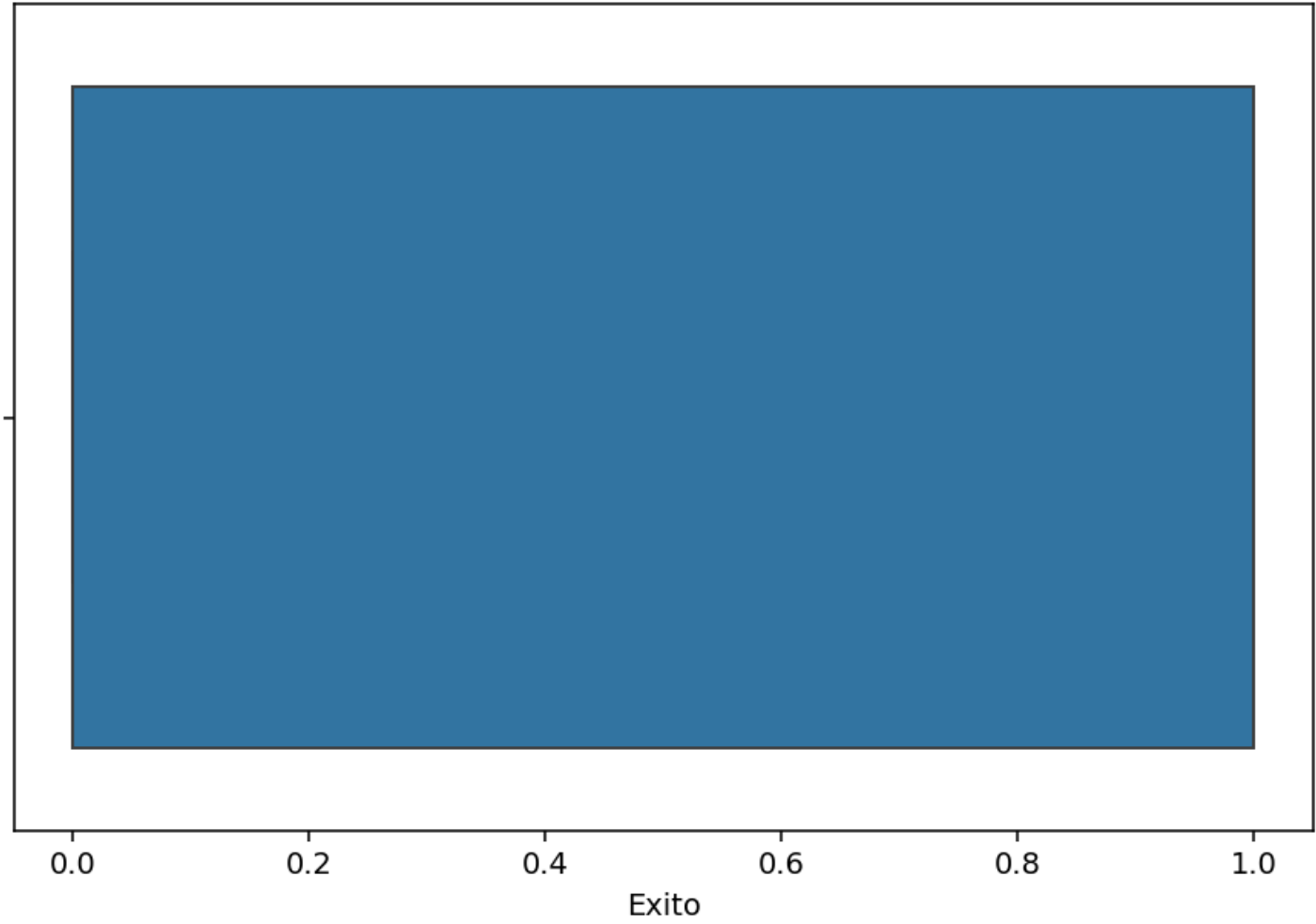
boxplot_Cluster.png

Boxplot de Discount



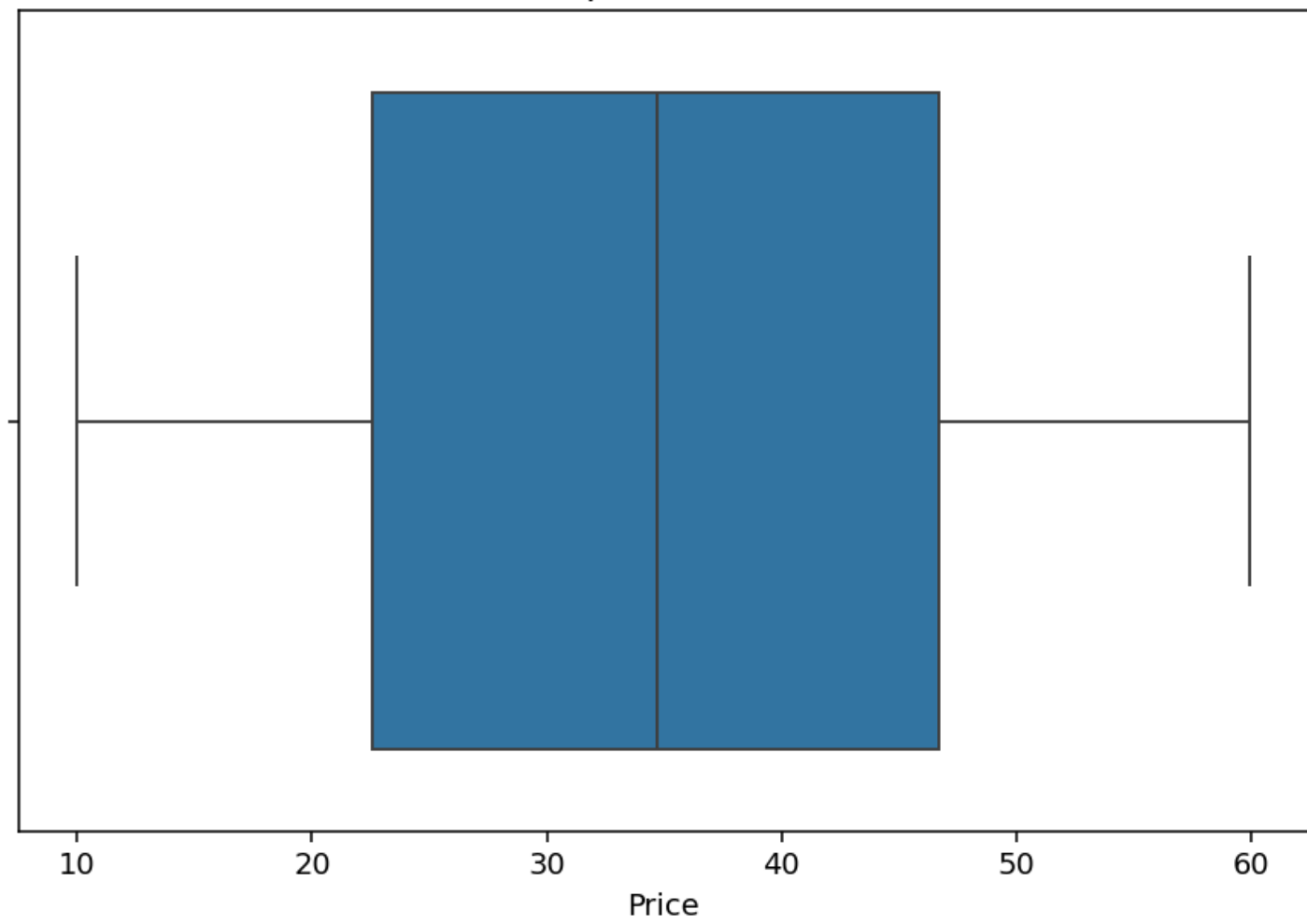
boxplot_Discount.png

Boxplot de Exito



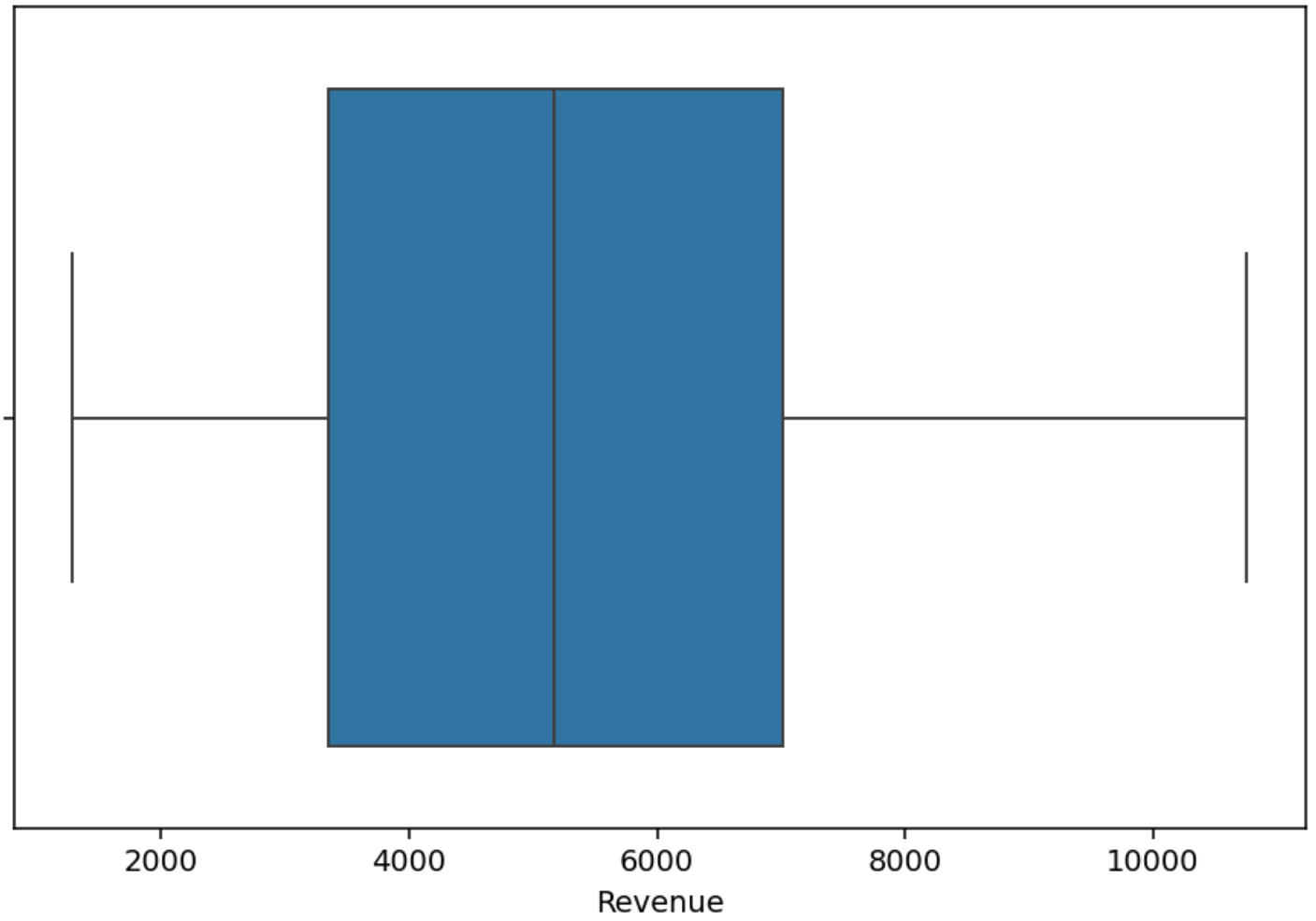
boxplot_Exito.png

Boxplot de Price



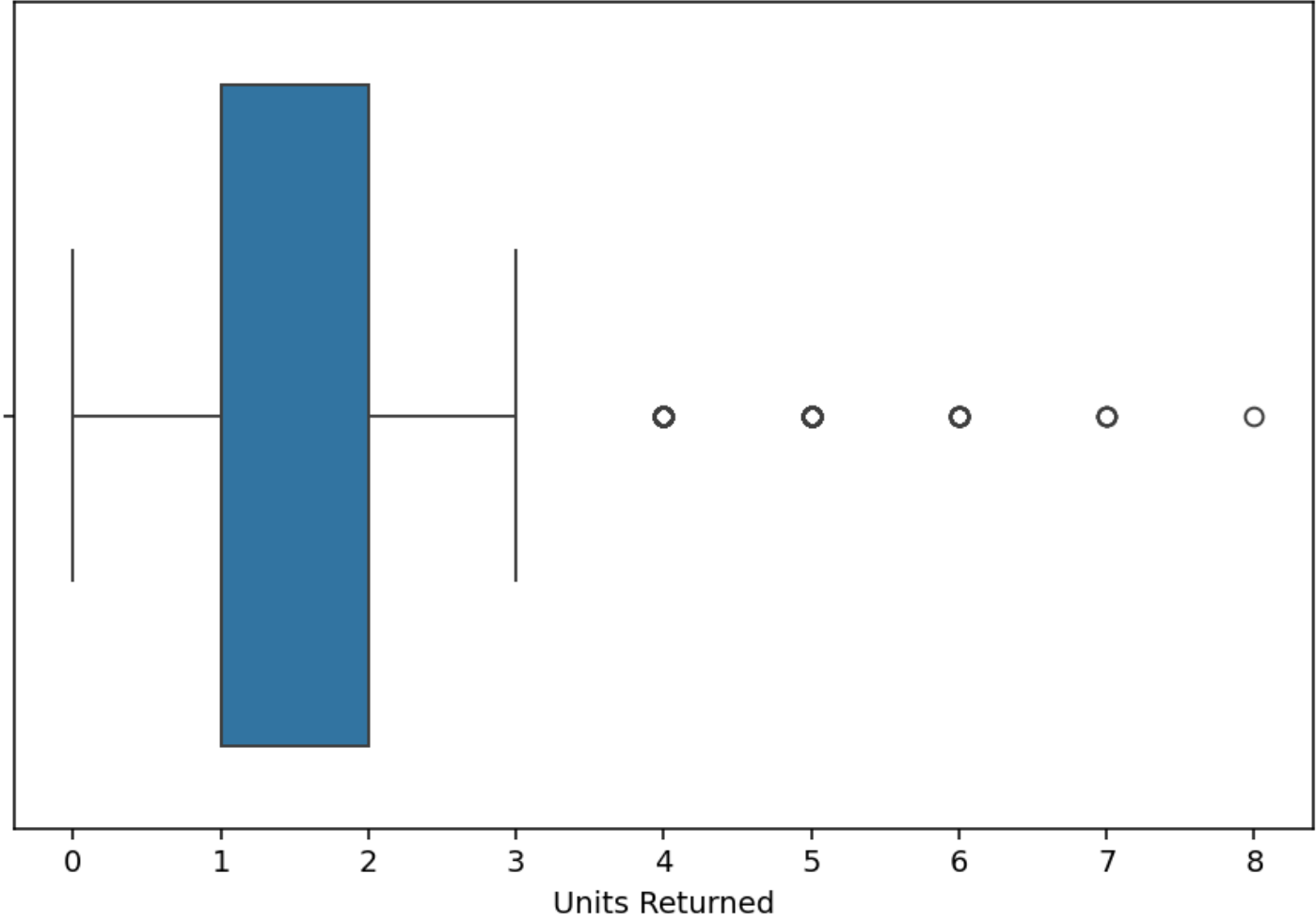
boxplot_Price.png

Boxplot de Revenue



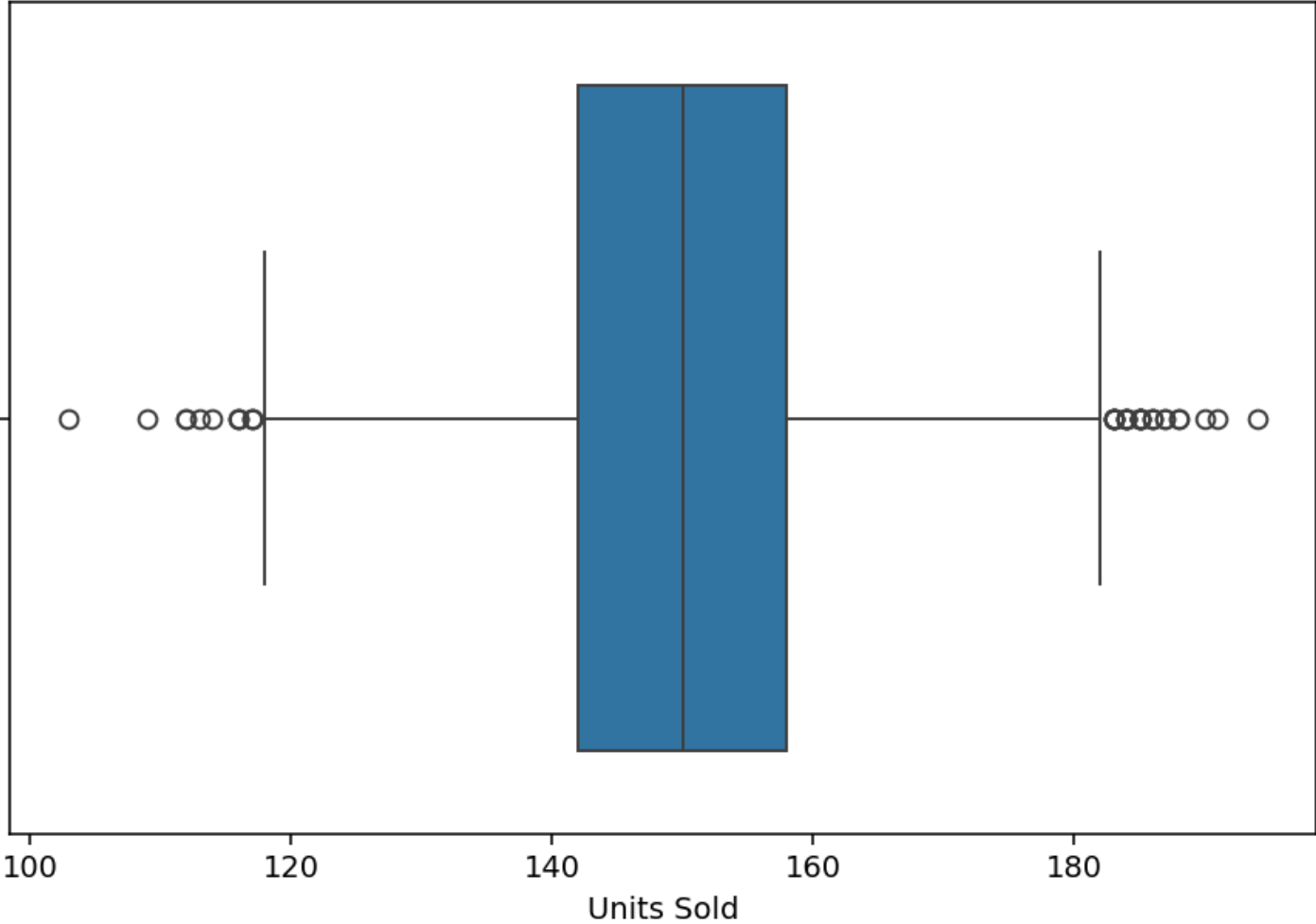
boxplot_Revenue.png

Boxplot de Units Returned



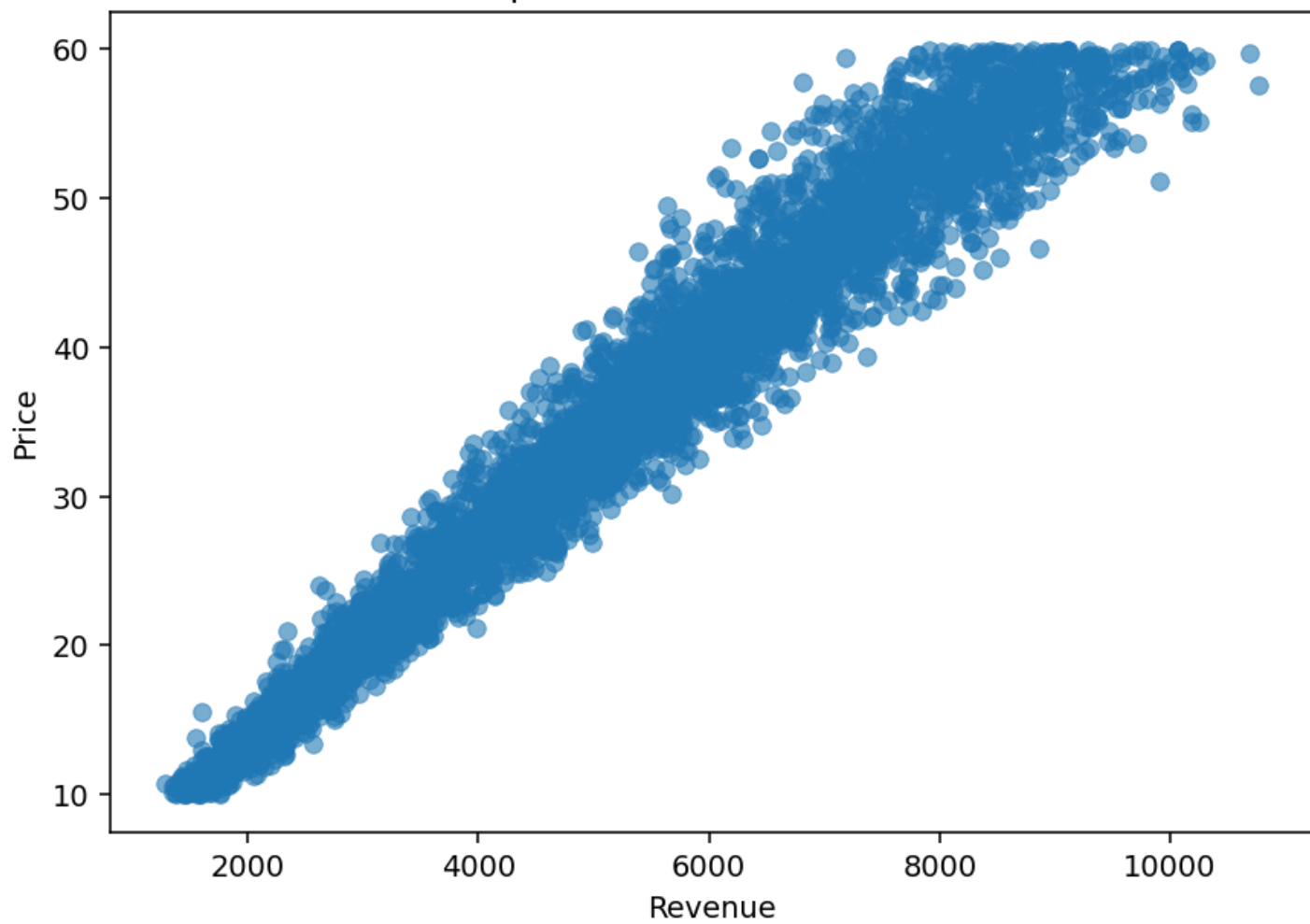
boxplot_Units_Returned.png

Boxplot de Units Sold



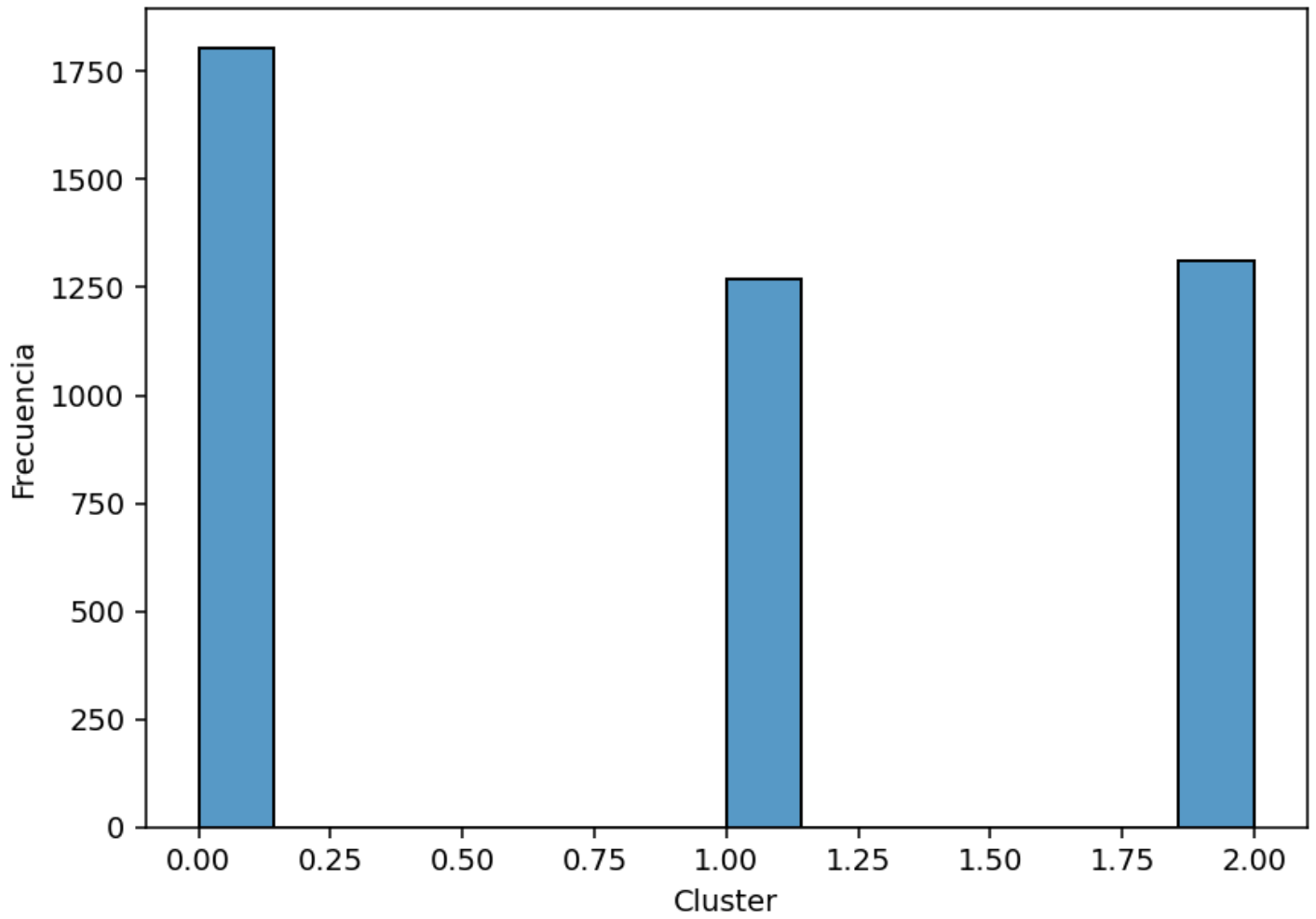
boxplot_Units_Sold.png

Dispersión: Revenue vs Price

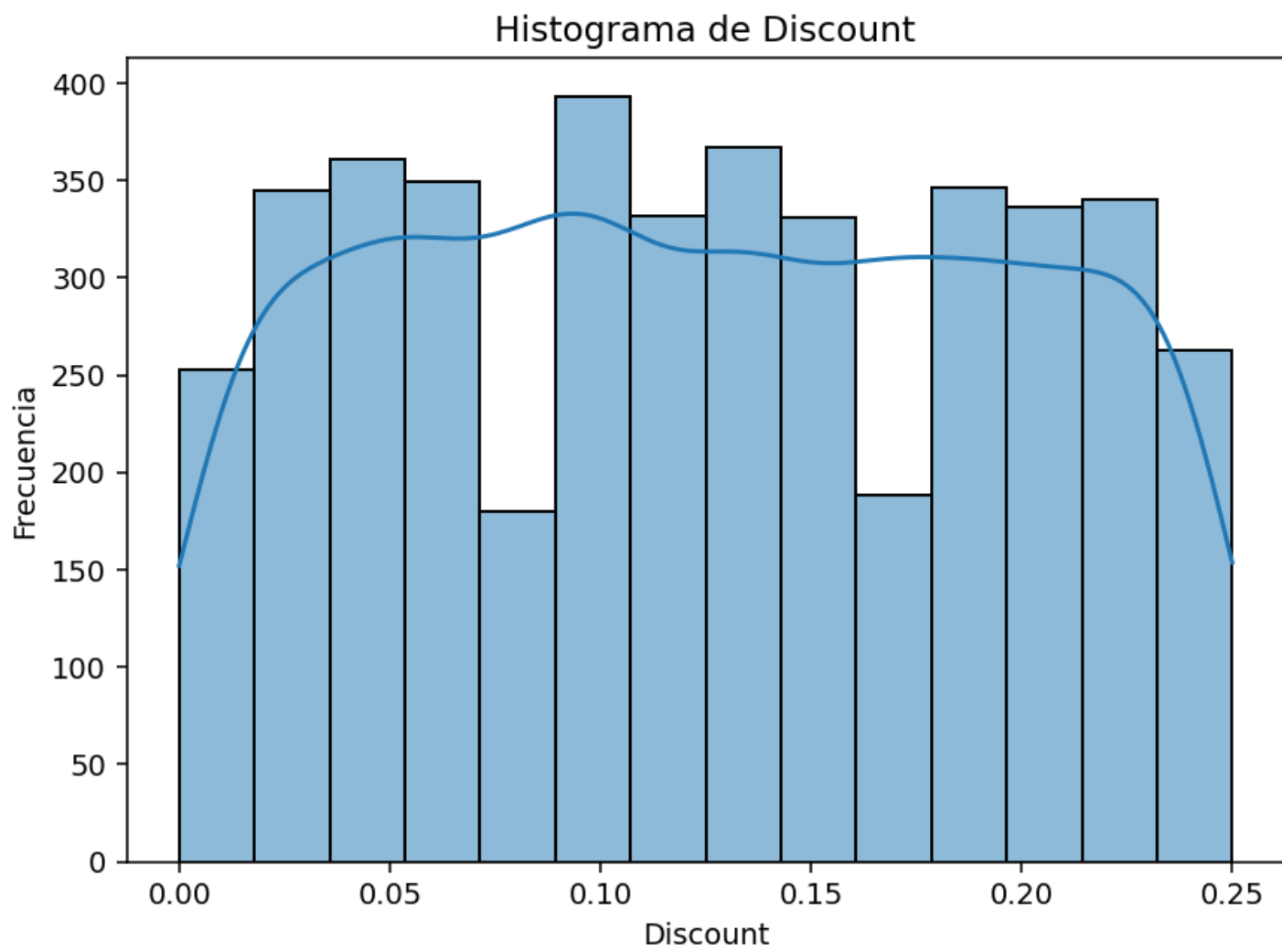


dispersion_Revenue_vs_Price.png

Histograma de Cluster

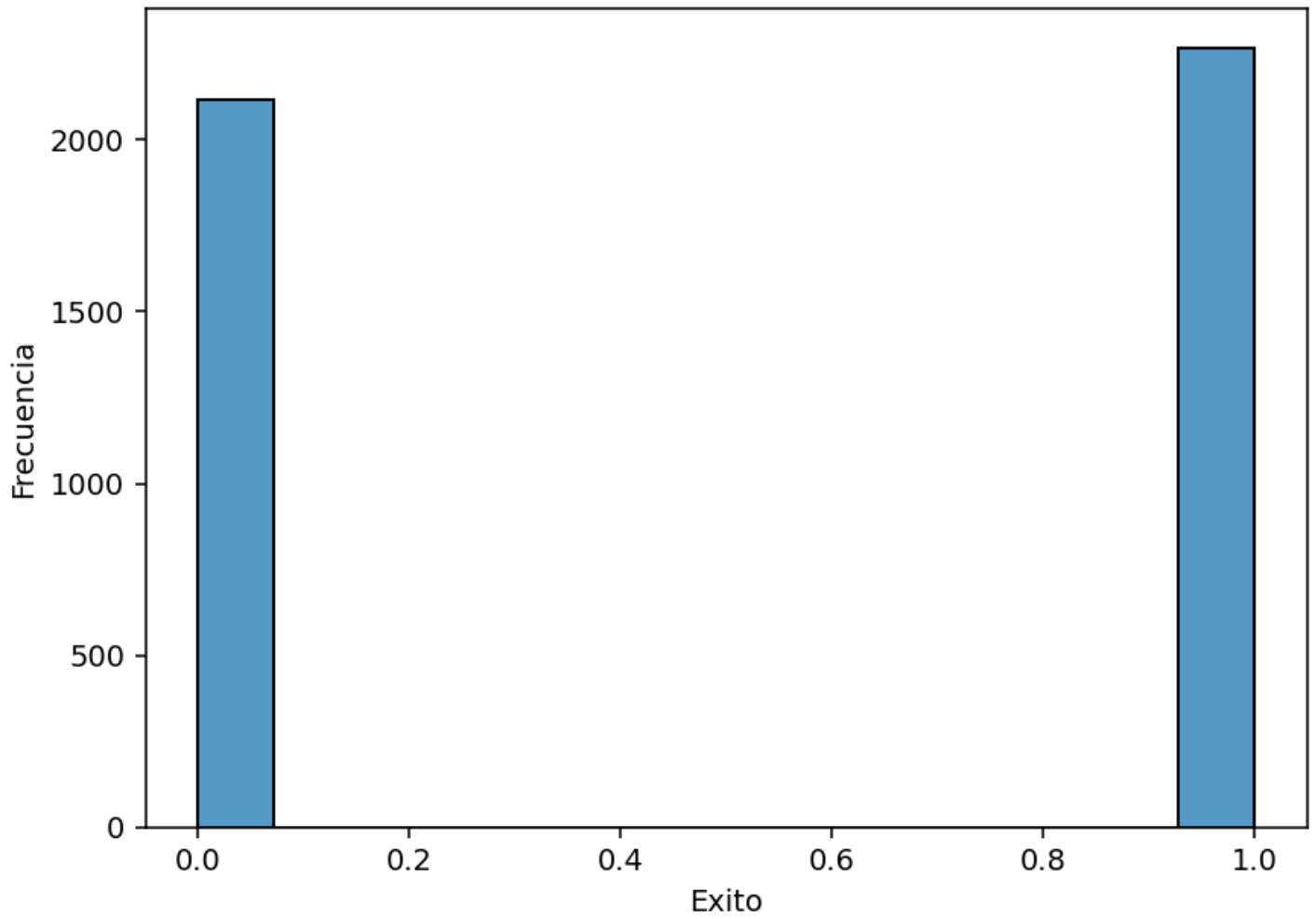


histograma_Cluster.png

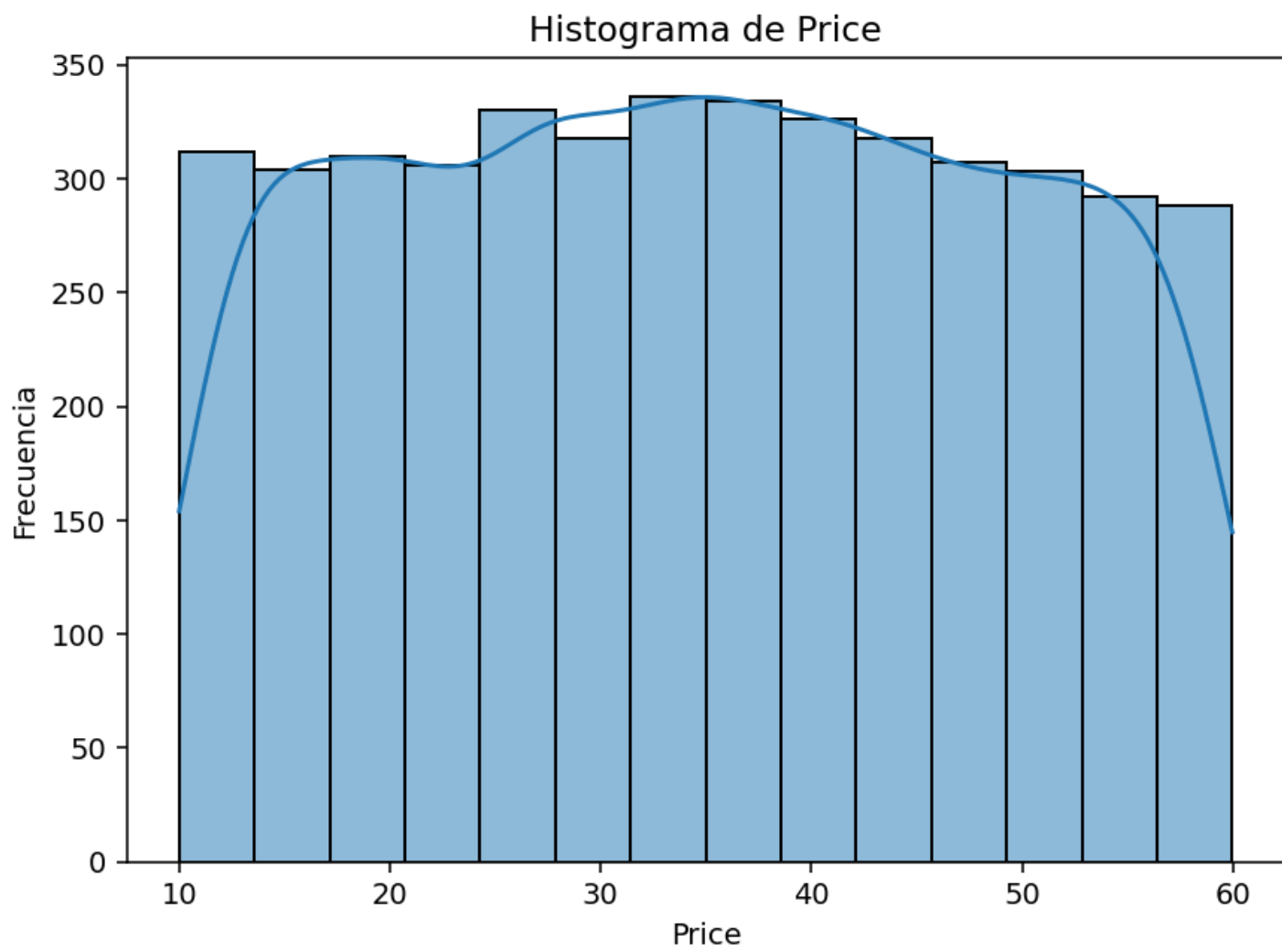


histograma_Discount.png

Histograma de Exito

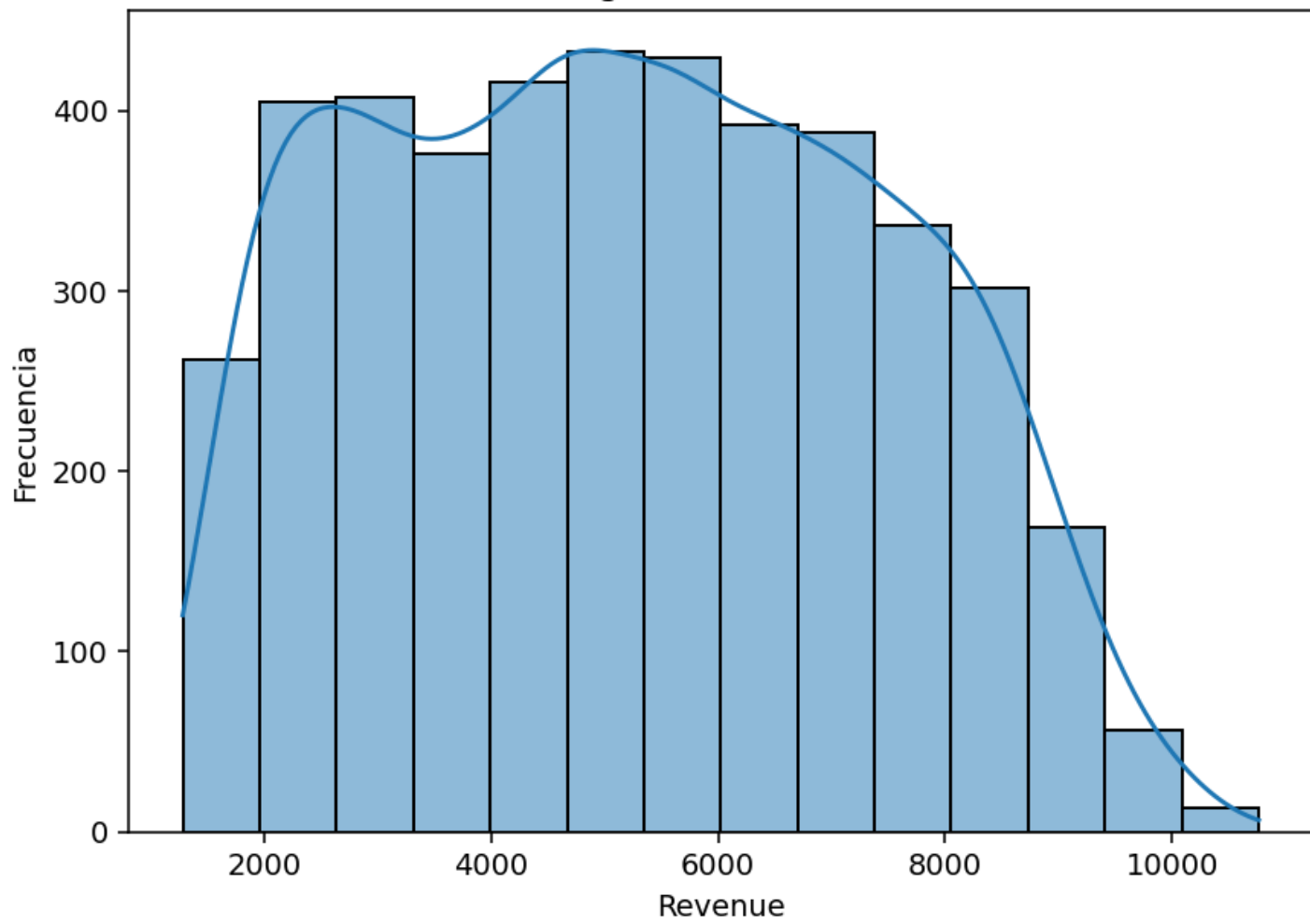


histograma_Exito.png



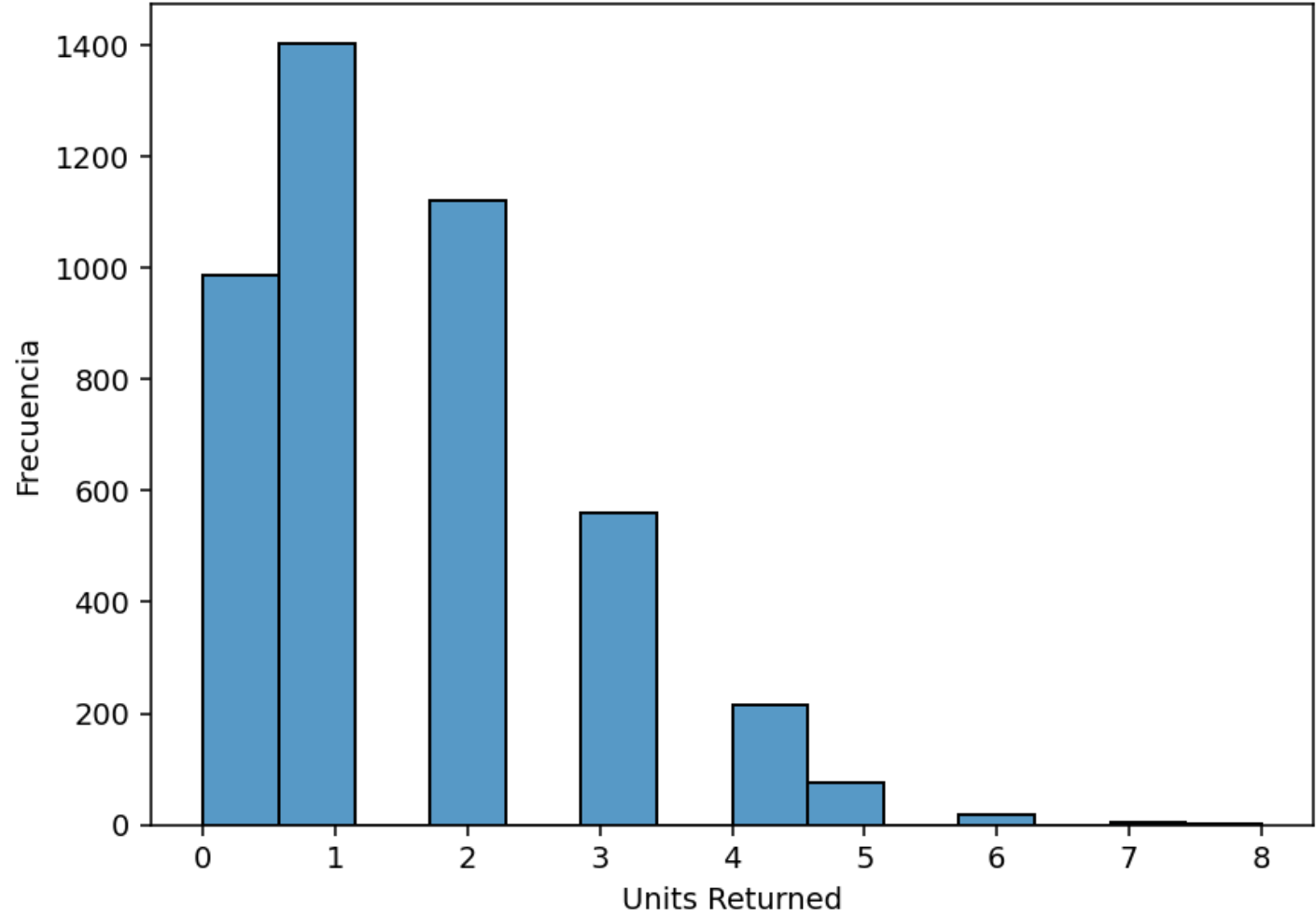
histograma_Price.png

Histograma de Revenue



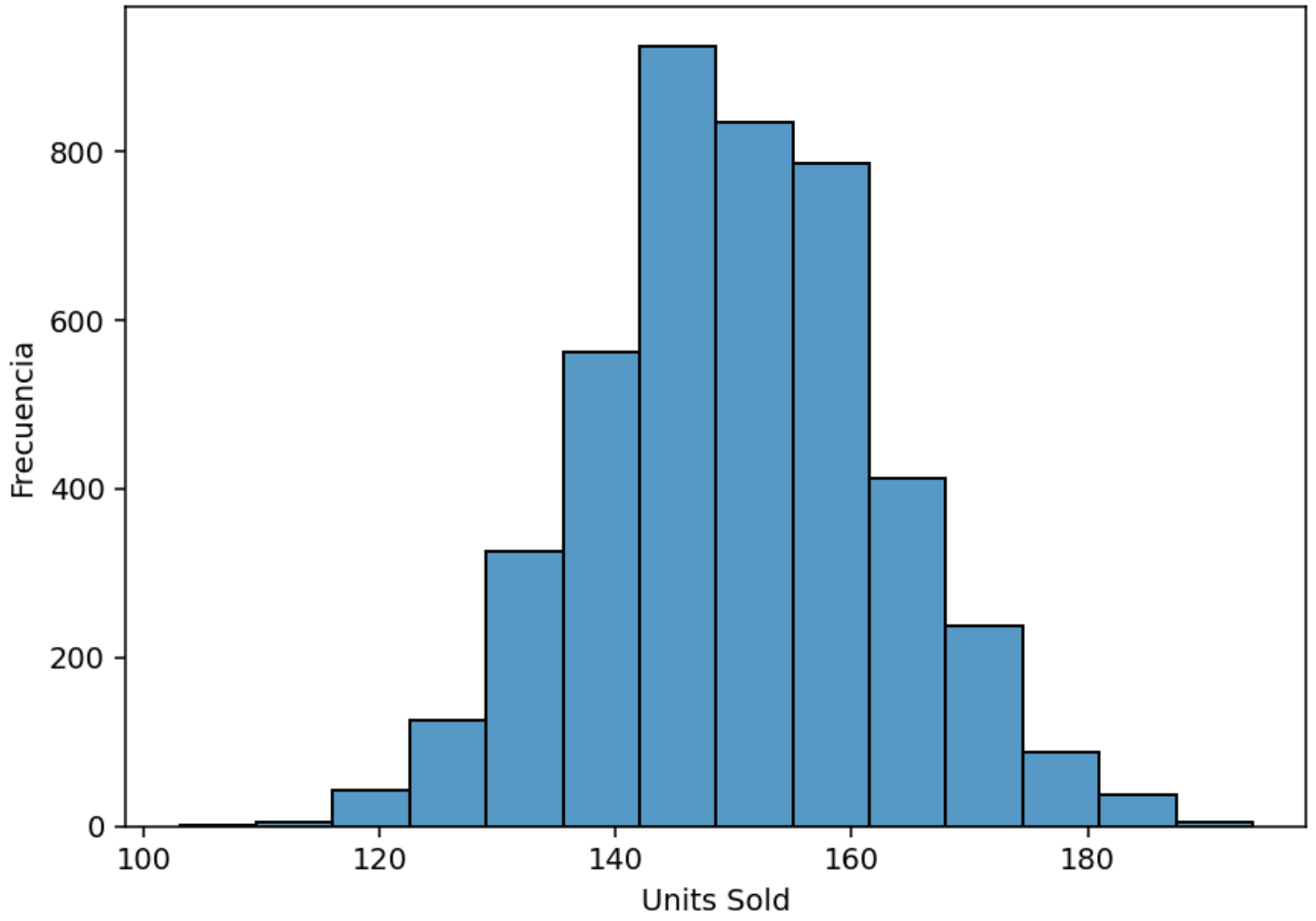
histograma_Revenue.png

Histograma de Units Returned



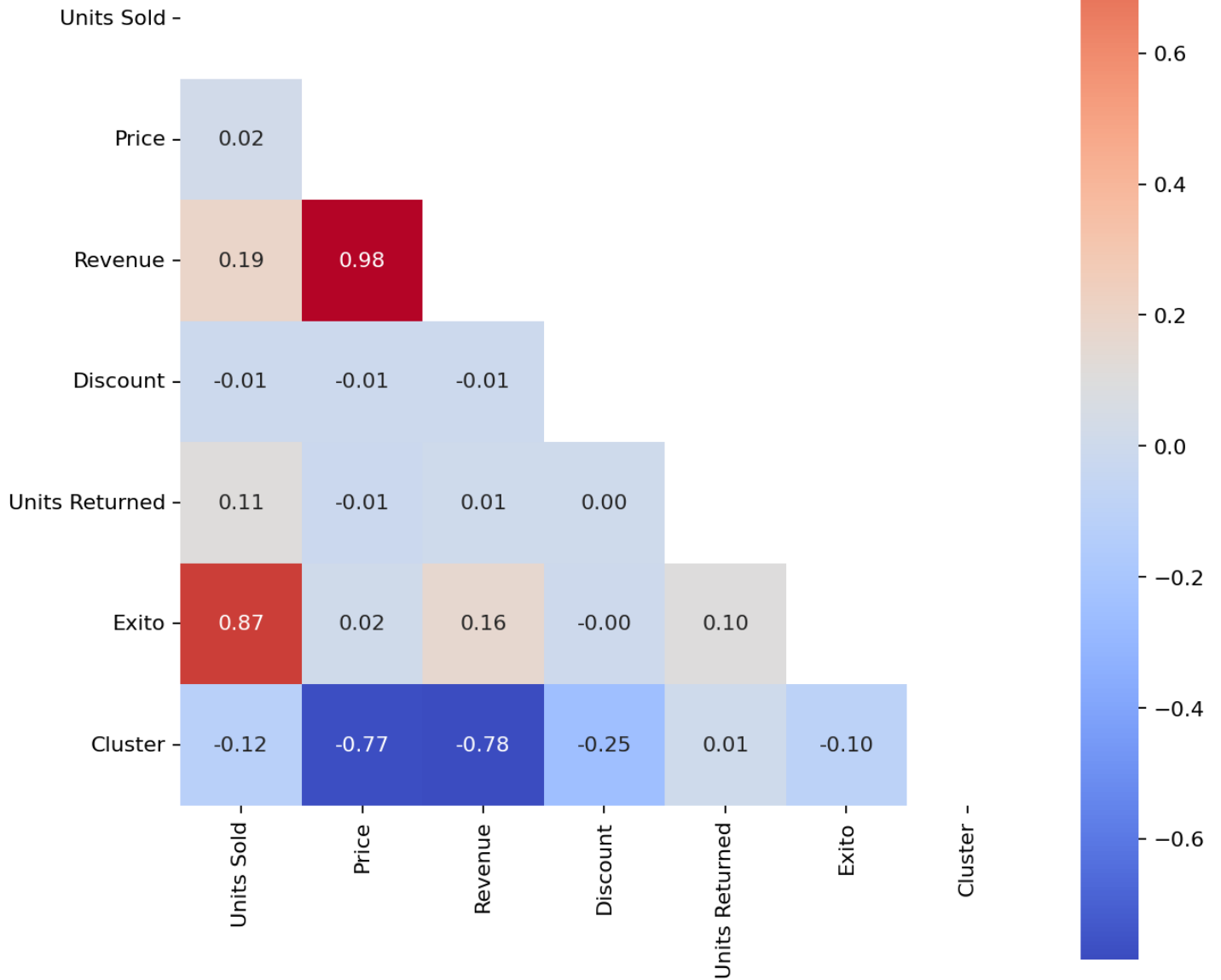
histograma_Units_Returned.png

Histograma de Units Sold



histograma_Units_Sold.png

Mapa de calor - Correlaciones (Spearman)



mapa_calor_correlaciones.png