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```
import pandas as pd

# Sample dataset
raw = {
    "product": ["Widget A", "Widget B", "Widget C"],
    "price": ["$1,234.50", "$567.89", "$2,345.00"],
    "quantity": [10, 5, None],
}

df = pd.DataFrame(raw)

df["price"] = df["price"].apply(lambda x: float(x.replace("$", "").replace(",", "")))

df["quantity"] = df["quantity"].fillna(0)

df["total"] = df["price"] * df["quantity"]

df["Classification"] = df["total"].apply(lambda x: "high" if x > 10000 else "med" if x > 1000 else "low")
```