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# Install PySpark
!pip install pyspark
# Import libraries
from pyspark.sql import SparkSession
from pyspark.sql.functions import col
# Spark Session
spark = SparkSession.builder.appName("Codetech Task 1 - Data Cleaning").getOrCreate()
# Upload file from local
from google.colab import files
uploaded = files.upload()
# Read the uploaded CSV
df = spark.read.csv("sales_data.csv", header=True, inferSchema=True)
# Show original data
print(" Original Data:")
df.show()
# Check null values
print("\n Missing values per column:")
df.select([col(c).isNull().cast("int").alias(c) for c in df.columns])\
 .groupBy().sum().show()
# Drop nulls
df_cleaned = df.dropna()
# Drop duplicates
df_cleaned = df_cleaned.dropDuplicates()
# Show cleaned data
print("\n Cleaned Data:")
df_cleaned.show()
# Save cleaned data
df_cleaned.write.csv("cleaned_sales_data.csv", header=True, mode="overwrite")
print("\n Task 1 complete. Cleaned data saved as cleaned_sales_data.csv")
```

+	+
Customer_Name Category A	mount
+	+
Alice Electronics	1500
Bob Clothing	800
Charlie Electronics	1800
Diana Groceries	300
Eve Electronics	2000
Frank Clothing	1200
Grace Groceries	400
Alice Electronics	1500
+	+

Missing	values	per	column:
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++		+
sum(Customer_Name)	sum(Category)	sum(Amount)
++		
0	0	0
++		+