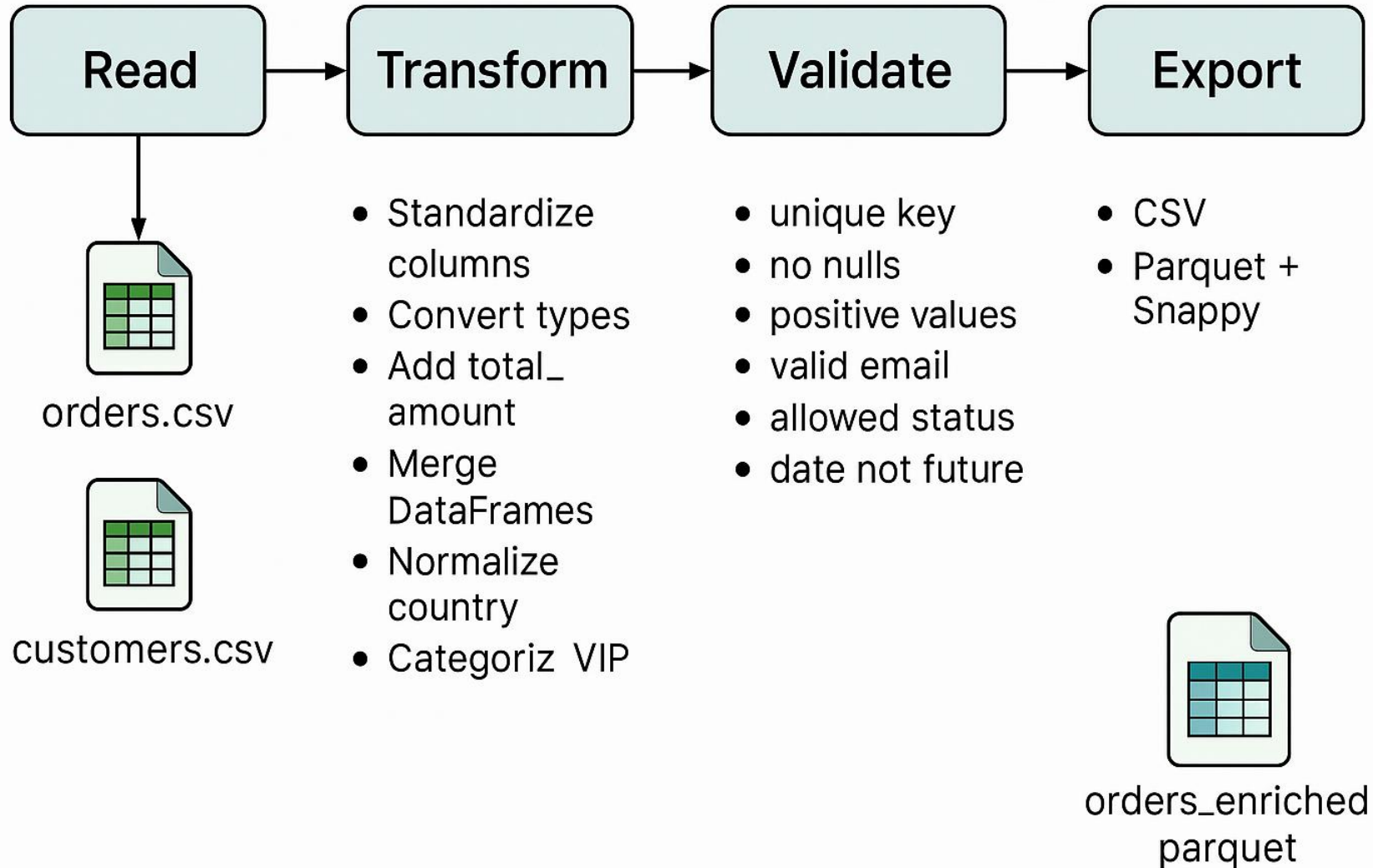
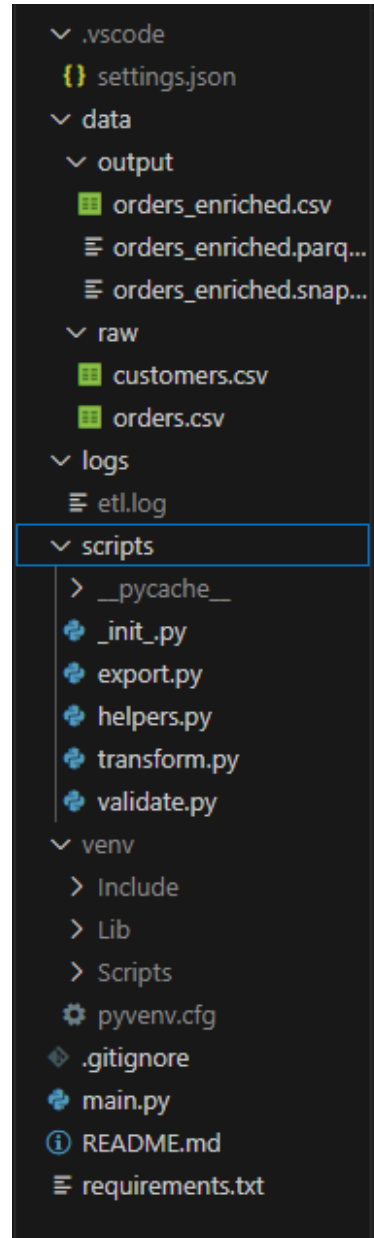


Data Flow Pipeline



Folders Structure



Data Raw (orders.csv)

```
data > raw > orders.csv > data
1  order_id,customer_id,order_date,quantity,unit_price,status
2  101,1,2023-07-10,3,150,completed
3  102,2,2023-07-11,1,1200,pending
4  103,3,2023-07-12,5,200,cancelled
5  104,4,2023-07-13,2,750,completed
6  105,5,2023-07-14,10,80,pending
7  106,6,2023-07-15,4,300,completed
8  107,7,2023-07-16,6,180,pending
9  108,8,2023-07-17,3,950,cancelled
10 109,9,2023-07-18,8,110,completed
11 110,10,2023-07-19,2,1000,pending
12 111,11,2023-07-20,1,2200,completed
13 112,12,2023-07-21,7,140,completed
14 113,13,2023-07-22,5,210,pending
15 114,14,2023-07-23,2,1300,cancelled
16 115,15,2023-07-24,9,95,completed
17 116,16,2023-07-25,3,400,completed
18 117,17,2023-07-26,4,275,pending
19 118,18,2023-07-27,1,850,cancelled
20 119,19,2023-07-28,6,160,completed
21 120,20,2023-07-29,2,1250,pending
22 121,21,2023-07-30,10,70,cancelled
23 122,22,2023-07-31,3,300,completed
24 123,23,2023-08-01,2,1450,pending
25 124,24,2023-08-02,4,220,cancelled
26 125,25,2023-08-03,5,195,completed
27 126,26,2023-08-04,3,180,pending
28 127,27,2023-08-05,6,250,completed
29 128,28,2023-08-06,1,999,completed
30 129,29,2023-08-07,2,600,cancelled
31 130,30,2023-08-08,3,1100,pending
32
```

Data Raw (customers.csv)

```
data > raw > customers.csv > data
1  customer_id,name,email,country
2  1,Lucas Pereira,lucas.pereira@mail.com,Brazil
3  2,Emma Torres,emma.torres@mail.com,Argentina
4  3,Noah Jiménez,noah.jimenez@mail.com,Mexico
5  4,Sofía Rivas,sofia.rivas@mail.com,Colombia
6  5,Mateo Duarte,mateo.duarte@mail.com,Chile
7  6,Valentina Álvarez,valentina.alvarez@mail.com,Peru
8  7,Thiago Guzmán,thiago.guzman@mail.com,Brazil
9  8,Camila Herrera,camila.herrera@mail.com,Argentina
10 9,Benjamín Vega,benjamin.vega@mail.com,Chile
11 10,Isabella Cruz,isabella.cruz@mail.com,Mexico
12 11,Martín Paredes,martin.paredes@mail.com,Colombia
13 12,Antonella Mora,antonella.mora@mail.com,Peru
14 13,Joaquín Ramírez,joaquin.ramirez@mail.com,Brazil
15 14,Abril Navarro,abril.navarro@mail.com,Argentina
16 15,Santiago León,santiago.leon@mail.com,Mexico
17 16,Aitana Cordero,aitana.cordero@mail.com,Chile
18 17,Emilio Vargas,emilio.vargas@mail.com,Colombia
19 18,Josefina Peña,josefina.pena@mail.com,Peru
20 19,Facundo Bravo,facundo.bravo@mail.com,Argentina
21 20,Regina Campos,regina.campos@mail.com,Mexico
22 21,Iker Castillo,iker.castillo@mail.com,Colombia
23 22,Zoe Medina,zoe.medina@mail.com,Chile
24 23,Bruno Salinas,bruno.salinas@mail.com,Peru
25 24,Renata Cabrera,renata.cabrera@mail.com,Brazil
26 25,Luciano Torres,luciano.torres@mail.com,Argentina
27 26,Mía Aguirre,mia.aguirre@mail.com,Mexico
28 27,Gaspar Molina,gaspar.molina@mail.com,Chile
29 28,Catalina Ríos,catalina.rios@mail.com,Colombia
30 29,Elías Blanco,elias.blanco@mail.com,Peru
31 30,Julieta Silva,julieta.silva@mail.com,Brazil
32 |
```

requirements.txt

≡ requirements.txt

```
1 pandas==2.2.2
2 boto3==1.34.124
3 python-dateutil==2.9.0
4 pyarrow==15.0.2
5
```

transform.py

```
scripts > transform.py > ...
1  import pandas as pd
2
3  def standardize_column_names(df: pd.DataFrame) -> pd.DataFrame:
4      df.columns = df.columns.str.strip().str.lower().str.replace(" ", "_")
5      return df
6
7  def convert_types(df: pd.DataFrame) -> pd.DataFrame:
8      df["order_date"] = pd.to_datetime(df["order_date"], errors="coerce")
9      df["quantity"] = pd.to_numeric(df["quantity"], errors="coerce")
10     df["unit_price"] = pd.to_numeric(df["unit_price"], errors="coerce")
11     return df
12
13     def add_total_amount(df: pd.DataFrame) -> pd.DataFrame:
14         df["total_amount"] = df["quantity"] * df["unit_price"]
15         return df
16
17     def merge_orders_customers(df_orders: pd.DataFrame, df_customers: pd.DataFrame) -> pd.DataFrame:
18         return df_orders.merge(df_customers, on="customer_id", how="left")
19
20     def normalize_country(df: pd.DataFrame) -> pd.DataFrame:
21         df["country"] = df["country"].str.strip().str.upper()
22         return df
23
24     def categorize_vip(df: pd.DataFrame) -> pd.DataFrame:
25         df["vip"] = df["total_amount"] > 1000
26         return df
27
```

validate.py

```
scripts > validate.py > ...
1  import re
2  import pandas as pd
3
4  def unique_key(df: pd.DataFrame, column: str):
5      if not df[column].is_unique:
6          raise ValueError(f"La columna {column} tiene valores duplicados.")
7
8  def no_nulls(df: pd.DataFrame, columns: list):
9      for col in columns:
10         if df[col].isnull().any():
11             raise ValueError(f"La columna {col} tiene valores nulos.")
12
13  def positive_values(df: pd.DataFrame, columns: list):
14      for col in columns:
15         if (df[col] <= 0).any():
16             raise ValueError(f"La columna {col} tiene valores menores o iguales a 0.")
17
18  def valid_email(df: pd.DataFrame):
19      pattern = r"^[^@]+@^[^@]+\.[^@]+"
20      if not df["email"].apply(lambda x: bool(re.match(pattern, str(x)))).all():
21          raise ValueError("Hay emails inválidos en la columna 'email'.")
22
23  def allowed_status(df: pd.DataFrame):
24      allowed = {"completed", "pending", "cancelled"}
25      if not df["status"].isin(allowed).all():
26          raise ValueError("Hay valores no permitidos en la columna 'status'.")
27
28  def date_not_future(df: pd.DataFrame, column: str):
29      if (df[column] > pd.Timestamp.today()).any():
30          raise ValueError(f"Hay fechas futuras en la columna {column}.")
31
```

main.py (parte 1)

```
main.py > ...
1 import argparse
2 import pandas as pd
3 from pathlib import Path
4 import logging
5
6 # Importar funciones desde los scripts
7 from scripts.transform import (
8     standardize_column_names,
9     convert_types,
10     add_total_amount,
11     merge_orders_customers,
12     normalize_country,
13     categorize_vip
14 )
15 from scripts.validate import (
16     unique_key,
17     no_nulls,
18     positive_values,
19     valid_email,
20     allowed_status,
21     date_not_future
22 )
23 from scripts.export import export_df
24
25 # Configurar logging
26 logging.basicConfig(
27     filename="logs/etl.log",
28     level=logging.INFO,
29     format="%(asctime)s - %(levelname)s - %(message)s"
30 )
31
32 def main(orders_path, customers_path, output_path, output_format):
33     try:
34         logging.info("Proceso ETL iniciado.")
35
36         # Leer datos
37         df_orders = pd.read_csv(orders_path)
38         df_customers = pd.read_csv(customers_path)
39
40         # Transformaciones
41         df_orders = standardize_column_names(df_orders)
42         df_customers = standardize_column_names(df_customers)
43
44         df_orders = convert_types(df_orders)
45         df_orders = add_total_amount(df_orders)
46
```


main.py (parte 2)

```
46
47     df = merge_orders_customers(df_orders, df_customers)
48     df = normalize_country(df)
49     df = categorize_vip(df)
50
51     # Validaciones
52     unique_key(df, "order_id")
53     no_nulls(df, ["order_id", "order_date", "customer_id", "email"])
54     positive_values(df, ["quantity", "unit_price", "total_amount"])
55     valid_email(df)
56     allowed_status(df)
57     date_not_future(df, "order_date")
58
59     # Exportar en tres formatos
60     output_path = Path(output_path)
61
62     # Exportar CSV
63     export_df(df, output_path.with_suffix(".csv"), "csv")
64
65     # Exportar Parquet sin compresión
66     export_df(df, output_path.with_suffix(".parquet"), "parquet")
67
68     # Exportar Parquet con compresión Snappy
69     export_df(df, output_path.with_name(output_path.stem + ".snappy.parquet"), "parquet", compression="snappy")
70
71     logging.info("Proceso ETL finalizado exitosamente.")
72     print("✅ Proceso completado. Archivos exportados en tres formatos.")
73
74
75 except Exception as e:
76     logging.error(f"Error en el proceso ETL: {e}")
77     print("❌ Error durante la ejecución:", e)
78
79 if __name__ == "__main__":
80     parser = argparse.ArgumentParser(description="Script ETL")
81     parser.add_argument("--orders", required=True, help="Ruta del archivo de pedidos")
82     parser.add_argument("--customers", required=True, help="Ruta del archivo de clientes")
83     parser.add_argument("--output", required=True, help="Ruta de salida del archivo transformado")
84     parser.add_argument("--format", required=False, default="csv", choices=["csv", "parquet"], help="Formato de salida")
85
86     args = parser.parse_args()
87
88     main(args.orders, args.customers, args.output, args.format)
89
```

export.py

scripts >  export.py > ...

```
1  import pandas as pd
2  from pathlib import Path
3
4  def export_df(df, output_path, output_format="csv", compression=None):
5      if output_format == "csv":
6          df.to_csv(output_path, index=False)
7      elif output_format == "parquet":
8          df.to_parquet(output_path, index=False, compression=compression)
9      else:
10         raise ValueError("Formato de exportación no soportado.")
11
```

etl.log

logs > ≡ etl.log

```
1 2025-07-18 09:29:22,118 - INFO - Proceso ETL iniciado.
2 2025-07-18 09:29:22,158 - ERROR - Error en el proceso ETL: 'status'
3 2025-07-18 09:29:40,628 - INFO - Proceso ETL iniciado.
4 2025-07-18 09:29:40,644 - ERROR - Error en el proceso ETL: 'status'
5 2025-07-18 09:35:17,654 - INFO - Proceso ETL iniciado.
6 2025-07-18 09:35:17,670 - ERROR - Error en el proceso ETL: 'order_date'
7 2025-07-18 09:37:18,052 - INFO - Proceso ETL iniciado.
8 2025-07-18 09:37:18,068 - ERROR - Error en el proceso ETL: 'unit_price'
9 2025-07-18 09:37:40,560 - INFO - Proceso ETL iniciado.
10 2025-07-18 09:37:40,994 - INFO - Proceso ETL finalizado exitosamente.
11 2025-07-18 09:40:40,682 - INFO - Proceso ETL iniciado.
12 2025-07-18 09:40:40,714 - INFO - Proceso ETL finalizado exitosamente.
13 2025-07-18 10:26:51,302 - INFO - Proceso ETL iniciado.
14 2025-07-18 10:26:51,535 - ERROR - Error en el proceso ETL: export_df() got an unexpected keyword argument 'compression'
15 2025-07-18 10:58:45,307 - INFO - Proceso ETL iniciado.
16 2025-07-18 10:58:45,308 - ERROR - Error en el proceso ETL: [Errno 2] No such file or directory: 'data/orders.csv'
17 2025-07-18 10:59:01,759 - INFO - Proceso ETL iniciado.
18 2025-07-18 10:59:01,759 - ERROR - Error en el proceso ETL: [Errno 2] No such file or directory: 'data/orders.csv'
19 2025-07-18 11:06:16,117 - INFO - Proceso ETL iniciado.
20 2025-07-18 11:06:16,150 - INFO - Proceso ETL finalizado exitosamente.
21
```

Data Output (.csv)

```
data > output > orders_enriched.csv > data
1  order_id,customer_id,order_date,quantity,unit_price,status,total_amount,name,email,country,vip
2  101,1,2023-07-10,3,150,completed,450,Lucas Pereira,lucas.pereira@mail.com,BRAZIL,False
3  102,2,2023-07-11,1,1200,pending,1200,Emma Torres,emma.torres@mail.com,ARGENTINA,True
4  103,3,2023-07-12,5,200,cancelled,1000,Noah Jiménez,noah.jimenez@mail.com,MEXICO,False
5  104,4,2023-07-13,2,750,completed,1500,Sofía Rivas,sofia.rivas@mail.com,COLOMBIA,True
6  105,5,2023-07-14,10,80,pending,800,Mateo Duarte,mateo.duarte@mail.com,CHILE,False
7  106,6,2023-07-15,4,300,completed,1200,Valentina Álvarez,valentina.alvarez@mail.com,PERU,True
8  107,7,2023-07-16,6,180,pending,1080,Thiago Guzmán,thiago.guzman@mail.com,BRAZIL,True
9  108,8,2023-07-17,3,950,cancelled,2850,Camila Herrera,camila.herrera@mail.com,ARGENTINA,True
10 109,9,2023-07-18,8,110,completed,880,Benjamín Vega,benjamin.vega@mail.com,CHILE,False
11 110,10,2023-07-19,2,1000,pending,2000,Isabella Cruz,isabella.cruz@mail.com,MEXICO,True
12 111,11,2023-07-20,1,2200,completed,2200,Martín Paredes,martin.paredes@mail.com,COLOMBIA,True
13 112,12,2023-07-21,7,140,completed,980,Antonella Mora,antonella.mora@mail.com,PERU,False
14 113,13,2023-07-22,5,210,pending,1050,Joaquín Ramírez,joaquin.ramirez@mail.com,BRAZIL,True
15 114,14,2023-07-23,2,1300,cancelled,2600,Abril Navarro,abril.navarro@mail.com,ARGENTINA,True
16 115,15,2023-07-24,9,95,completed,855,Santiago León,santiago.leon@mail.com,MEXICO,False
17 116,16,2023-07-25,3,400,completed,1200,Aitana Cordero,aitana.cordero@mail.com,CHILE,True
18 117,17,2023-07-26,4,275,pending,1100,Emilio Vargas,emilio.vargas@mail.com,COLOMBIA,True
19 118,18,2023-07-27,1,850,cancelled,850,Josefina Peña,josefina.pena@mail.com,PERU,False
20 119,19,2023-07-28,6,160,completed,960,Facundo Bravo,facundo.bravo@mail.com,ARGENTINA,False
21 120,20,2023-07-29,2,1250,pending,2500,Regina Campos,regina.campos@mail.com,MEXICO,True
22 121,21,2023-07-30,10,70,cancelled,700,Iker Castillo,iker.castillo@mail.com,COLOMBIA,False
23 122,22,2023-07-31,3,300,completed,900,Zoe Medina,zoe.medina@mail.com,CHILE,False
24 123,23,2023-08-01,2,1450,pending,2900,Bruno Salinas,bruno.salinas@mail.com,PERU,True
25 124,24,2023-08-02,4,220,cancelled,880,Renata Cabrera,renata.cabrera@mail.com,BRAZIL,False
26 125,25,2023-08-03,5,195,completed,975,Luciano Torres,luciano.torres@mail.com,ARGENTINA,False
27 126,26,2023-08-04,3,180,pending,540,Mía Aguirre,mia.aguirre@mail.com,MEXICO,False
28 127,27,2023-08-05,6,250,completed,1500,Gaspar Molina,gaspar.molina@mail.com,CHILE,True
29 128,28,2023-08-06,1,999,completed,999,Catalina Ríos,catalina.rios@mail.com,COLOMBIA,False
30 129,29,2023-08-07,2,600,cancelled,1200,Elías Blanco,elias.blanco@mail.com,PERU,True
31 130,30,2023-08-08,3,1100,pending,3300,Julieta Silva,julieta.silva@mail.com,BRAZIL,True
32
```

Data Output (.parquet)

```
1 [{"order_id":101,"customer_id":1,"order_date":1688947200000,"quantity":3,"unit_price":150,"status":"completed","total_amount":450,"name":"Lucas Pereira","email":"lucas.pereira@mail.com","country":
2 {"order_id":102,"customer_id":2,"order_date":1689033600000,"quantity":1,"unit_price":1200,"status":"pending","total_amount":1200,"name":"Emma Torres","email":"emma.torres@mail.com","country":"A
3 {"order_id":103,"customer_id":3,"order_date":1689120000000,"quantity":5,"unit_price":200,"status":"cancelled","total_amount":1000,"name":"Noah Jiménez","email":"noah.jimenez@mail.com","country":
4 {"order_id":104,"customer_id":4,"order_date":1689206400000,"quantity":2,"unit_price":750,"status":"completed","total_amount":1500,"name":"Sofía Rivas","email":"sofia.rivas@mail.com","country":"
5 {"order_id":105,"customer_id":5,"order_date":1689292800000,"quantity":10,"unit_price":80,"status":"pending","total_amount":800,"name":"Mateo Duarte","email":"mateo.duarte@mail.com","country":"C
6 {"order_id":106,"customer_id":6,"order_date":1689379200000,"quantity":4,"unit_price":300,"status":"completed","total_amount":1200,"name":"Valentina Álvarez","email":"valentina.alvarez@mail.com"
7 {"order_id":107,"customer_id":7,"order_date":1689465600000,"quantity":6,"unit_price":180,"status":"pending","total_amount":1080,"name":"Thiago Guzmán","email":"thiago.guzman@mail.com","country":
8 {"order_id":108,"customer_id":8,"order_date":1689552000000,"quantity":3,"unit_price":950,"status":"cancelled","total_amount":2850,"name":"Camila Herrera","email":"camila.herrera@mail.com","coun
9 {"order_id":109,"customer_id":9,"order_date":1689638400000,"quantity":8,"unit_price":110,"status":"completed","total_amount":880,"name":"Benjamín Vega","email":"benjamin.vega@mail.com","country
10 {"order_id":110,"customer_id":10,"order_date":1689724800000,"quantity":2,"unit_price":1000,"status":"pending","total_amount":2000,"name":"Isabella Cruz","email":"isabella.cruz@mail.com","countr
11 {"order_id":111,"customer_id":11,"order_date":1689811200000,"quantity":1,"unit_price":2200,"status":"completed","total_amount":2200,"name":"Martín Paredes","email":"martin.paredes@mail.com","co
12 {"order_id":112,"customer_id":12,"order_date":1689897600000,"quantity":7,"unit_price":140,"status":"completed","total_amount":980,"name":"Antonella Mora","email":"antonella.mora@mail.com","coun
13 {"order_id":113,"customer_id":13,"order_date":1689984000000,"quantity":5,"unit_price":210,"status":"pending","total_amount":1050,"name":"Joaquín Ramírez","email":"joaquin.ramirez@mail.com","cou
14 {"order_id":114,"customer_id":14,"order_date":1690070400000,"quantity":2,"unit_price":1300,"status":"cancelled","total_amount":2600,"name":"Abril Navarro","email":"abril.navarro@mail.com","coun
15 {"order_id":115,"customer_id":15,"order_date":1690156800000,"quantity":9,"unit_price":95,"status":"completed","total_amount":855,"name":"Santiago León","email":"santiago.leon@mail.com","country
16 {"order_id":116,"customer_id":16,"order_date":1690243200000,"quantity":3,"unit_price":400,"status":"completed","total_amount":1200,"name":"Aitana Cordero","email":"aitana.cordero@mail.com","cou
17 {"order_id":117,"customer_id":17,"order_date":1690329600000,"quantity":4,"unit_price":275,"status":"pending","total_amount":1100,"name":"Emilio Vargas","email":"emilio.vargas@mail.com","country
18 {"order_id":118,"customer_id":18,"order_date":1690416000000,"quantity":1,"unit_price":850,"status":"cancelled","total_amount":850,"name":"Josefina Peña","email":"josefina.pena@mail.com","countr
19 {"order_id":119,"customer_id":19,"order_date":1690502400000,"quantity":6,"unit_price":160,"status":"completed","total_amount":960,"name":"Facundo Bravo","email":"facundo.bravo@mail.com","countr
20 {"order_id":120,"customer_id":20,"order_date":1690588800000,"quantity":2,"unit_price":1250,"status":"pending","total_amount":2500,"name":"Regina Campos","email":"regina.campos@mail.com","countr
21 {"order_id":121,"customer_id":21,"order_date":1690675200000,"quantity":10,"unit_price":70,"status":"cancelled","total_amount":700,"name":"Iker Castillo","email":"iker.castillo@mail.com","countr
22 {"order_id":122,"customer_id":22,"order_date":1690761600000,"quantity":3,"unit_price":300,"status":"completed","total_amount":900,"name":"Zoe Medina","email":"zoe.medina@mail.com","country":"CH
23 {"order_id":123,"customer_id":23,"order_date":1690848000000,"quantity":2,"unit_price":1450,"status":"pending","total_amount":2900,"name":"Bruno Salinas","email":"bruno.salinas@mail.com","countr
24 {"order_id":124,"customer_id":24,"order_date":1690934400000,"quantity":4,"unit_price":220,"status":"cancelled","total_amount":880,"name":"Renata Cabrera","email":"renata.cabrera@mail.com","coun
25 {"order_id":125,"customer_id":25,"order_date":1691020800000,"quantity":5,"unit_price":195,"status":"completed","total_amount":975,"name":"Luciano Torres","email":"luciano.torres@mail.com","coun
26 {"order_id":126,"customer_id":26,"order_date":1691107200000,"quantity":3,"unit_price":180,"status":"pending","total_amount":540,"name":"Mía Aguirre","email":"mia.aguirre@mail.com","country":"ME
27 {"order_id":127,"customer_id":27,"order_date":1691193600000,"quantity":6,"unit_price":250,"status":"completed","total_amount":1500,"name":"Gaspar Molina","email":"gaspar.molina@mail.com","count
28 {"order_id":128,"customer_id":28,"order_date":1691280000000,"quantity":1,"unit_price":999,"status":"completed","total_amount":999,"name":"Catalina Ríos","email":"catalina.rios@mail.com","countr
29 {"order_id":129,"customer_id":29,"order_date":1691366400000,"quantity":2,"unit_price":600,"status":"cancelled","total_amount":1200,"name":"Elías Blanco","email":"elias.blanco@mail.com","country
30 {"order_id":130,"customer_id":30,"order_date":1691452800000,"quantity":3,"unit_price":1100,"status":"pending","total_amount":3300,"name":"Julieta Silva","email":"julieta.silva@mail.com","countr
31
```


Data Output (.snappy)

```
= requirements.txt | .gitignore | export.py | transform.py | customers.csv | orders.csv | orders_enriched.snappy.parquet.as.json | validate.py | main.py | settings.json | _init.py
1 [{"order_id":101,"customer_id":1,"order_date":1688947200000,"quantity":3,"unit_price":150,"status":"completed","total_amount":450,"name":"Lucas Pereira","email":"lucas.pereira@mail.com","country":
2 {"order_id":102,"customer_id":2,"order_date":1689033600000,"quantity":1,"unit_price":1200,"status":"pending","total_amount":1200,"name":"Emma Torres","email":"emma.torres@mail.com","country":"A
3 {"order_id":103,"customer_id":3,"order_date":1689120000000,"quantity":5,"unit_price":200,"status":"cancelled","total_amount":1000,"name":"Noah Jiménez","email":"noah.jimenez@mail.com","country":
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