

Input File Schema

All records

Each line is preceded by a record type in position 1.

Record type: customer

Position	Field	Data Type	Required
2	Customer ID	string	yes
3	Name	string	yes
4	Email address	string	yes
5	Age	integer	no
6	Gender	integer: 1=male, 2=female	yes

Record type: product

Position	Field	Data Type	Required
2	sku	string	yes
3	name	string	yes
4	brand	string	no
5	price	fixed 2	yes
6	currency	string	yes default = "USD"

Record type: order

Note: Each order contains a header row followed by rows for each line item

Sub type: order

Position	Field	Data Type	Required
2	order id	string	yes

3	number of line items	integer	yes - tells how many subsequent lines to expect as line items for this order
4	order sub total	fixed 2	yes
5	order tax	fixed 2	yes
6	order total	fixed 2	yes
7	customer id	string	yes - indicates which customer placed the order

Sub type: order-line

Position	Field	Data Type	Required
2	line number	integer	yes - indicates which line number it is of the order
3	product name	string	yes
4	price	fixed 2	yes - price of a single item of the product
3	quantity	integer	yes - number of the item ordered

Output File Schemas

Customer File

File type: XML

The customer file should validate per the customers.xsd schema file.
Allowable strings for the gender field are 'male' and 'female'.

Product File

File type: CSV - comma separated values

Strings should be wrapped in double-quotes

Header row: use the field names from the input schema

Order File

File type: JSON

Data model:

```
{
  "orders": [{
    "id": string,
    "head": {
      "sub_total": fixed(2),
      "tax": fixed(2),
      "total": fixed(2),
      "customer": string(customer id)
    },
    "lines" : [{
      "position": integer(the number of the line),
      "name": string,
      "price": fixed(2),
      "quantity": integer,
      "row_total": fixed(2) - the price x quantity
    },
    ...
  ]
},
...
]
```