### **SANTALYTICS 2020** Submission

Project: Mrs Claus's Order list maker and Toys catalogue creator

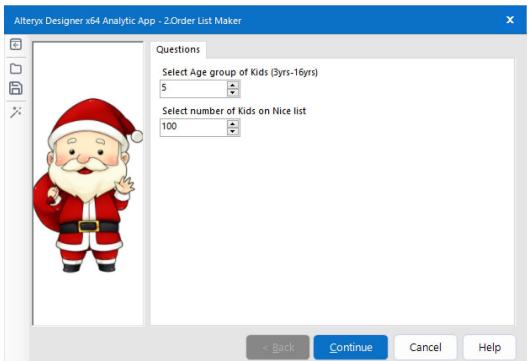
**How does it helps?** Creates an orders list based on selection and maintains inventory.

**Datasource :** Toys dataset from the sample datasets <a href="https://community.alteryx.com/t5/Santalytics-2020/Sample-Data-Sets-and-Ideas/ta-p/668870">https://community.alteryx.com/t5/Santalytics-2020/Sample-Data-Sets-and-Ideas/ta-p/668870</a>

**Description :** This is a set of 1 data prep workflow and 2 analytics apps

- **1.Workflow**: For cleaning the data and bring in necessary information into columns and change datatypes
- **2.Orders list maker (App) :** The app will let Mrs Claus select an age group and number of kids to gift. The will look into the available stock, sort the product based on Age, Rating, No of review, low cost and creates the order list for the requested number of gifts. And each time the order list is made it updated the inventory with depleted stock. Elves can take the order list and process it
- **3.Toys catalogue (App):** the app lets Mrs Claus/Elves to select an age and it will give you a catalogue with information about toys.

# Orders list maker (Demo snapshots) App:



#### On run it creates a temp pdf:

Output Files

Open the following output files:

Engine\_7400\_f9acdef53e9b4e19a37787fd72eceacc\_.pdf

**Pdf:** pdf can be printed and given to an elf to place orders. Catalougeld is used for reference.



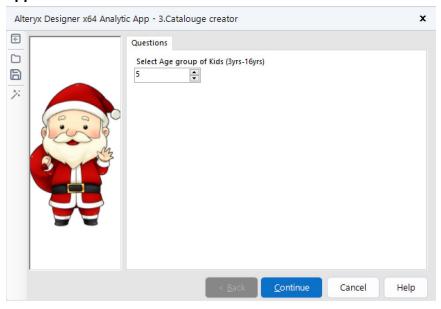
Each time the order list is created it is depleted from the stock.



If stock is less then order then it will show not fulfilled (fulfill remaining and go out of stock)

And the app is chained with itself. I.e it will prompt you to place orders until you close the app.

# Toys catalogue (Demo snapshots) App:



On run it creates a temp pdf:

## Toys Catalouge age:5



### SANTALYTICS

CatalougeID	Product Name	Manufacturer	Prodcut	Description	Product Information	Age	Rating
7	Paul Lamond Games Find It Glitz and Glamour Playing Cards		it, shake it, f the hidden find in this delights? The 'Contained Ad friendly treas	ind it! How many of treasures can you fabulous tube of Find It Game is a lventure', a family-	Weight640 g Product Dimensions26.8 x 9.8 x 9.2 cm Manufacturer recommended age:5 - 3		
36	LEGO Minifigures Series 9 BATTLEMECH (opened packet)	LEGO		table Minifigures: Ainifigure (Series 9)	Technical Details Item Weight9 g Product Dimensions2.6 x 1 x 4.1 cm Manufacturer recommended age:5 years and up Manufacturer	5	5

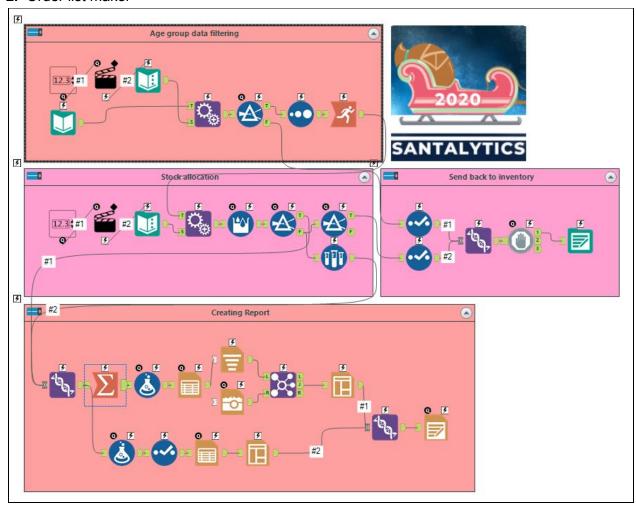
And the app is chained with itself. I.e it will prompt you to place orders until you close the app.

### Workflows

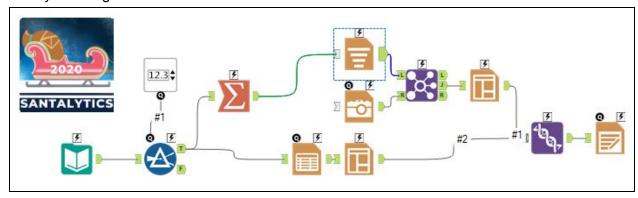
1. Workflow for data cleaning



#### 2. Order list maker



#### 3. Toys catalogue



#### Files:

- 1.Data Prep.yxmd
- 2.Order List Maker.yxwz
- 3.Catalouge creator.yxwz
- amazon\_co-ecommerce\_sample.csv
- 💄 catalouge.yxdb
- Inventory.yxdb

#### Working files link

https://drive.google.com/drive/folders/1IqcvL8Y7Kwa9Yu3yejuPYS\_Bg4\_c9z70?usp=sharing

## **Explanation Walkthrough**

1. Workflow for data cleaning

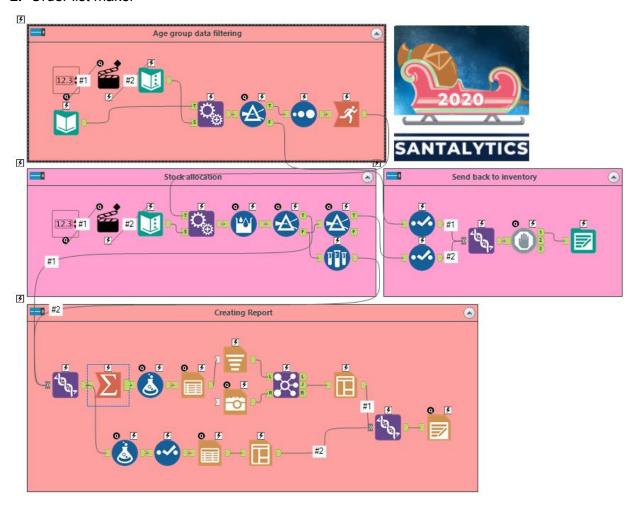


- 1. Input Tool: loading the file
- 2. Select Tool: renaming few columns
- 3. **Formula Tool:** removing "Â", "£" and commas from field which will be converted numeric
- 4. Filter Tool:

!IsEmpty([price]) // should have price and !IsEmpty([number\_available\_in\_stock]) //should be in stock and Contains([product\_information], " age") //should have age in information and Contains([number\_available\_in\_stock], "new") // should be a new toy not used ones and !IsEmpty([average review rating]) // should have a rating

- 5. **Formula Tool:** converting price and ratings to number
- 6. Regex Tool: extracting stock number and stock type from raw string
- 7. Regex Tool: extracting age from product\_information raw string
- 8. Select Tool: renaming few columns
- 9. Filter Tool: considering only age is or below 16
- 10. RecordID Tool: setting catalogue id to reference later
- 11. Select Tool and Output Tool: selecting required columns data as Inventory data
- 12. Select Tool and Output Tool: selecting required columns data as catalog data

#### 2. Order list maker



- 1. Input Tool: loading inventory data
- 2. Interface Tools: to let user select Age group
- 3. **Append Tool:** appending Selected Age group to the data
- 4. **Filter Tool(T):** Since toys are marked as age+ usage. Toys recommended for the selected age is age till 3 ages below.
- 5. Filter Tool(F): send back to inventory
- 6. Sort Tool: Nested sort

Age | descending | nearest age

Rating | descending | highest rating

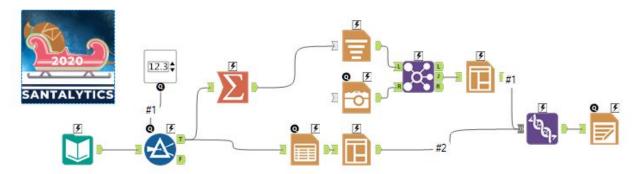
No fo reviews | descending | toys with more reviews

Cost | Ascending | lowest cost first

- 7. Running Total Tool: add up stock
- 8. Interface Tools: to let user select number of orders
- 9. Append Tool: appending Selected number of orders to the data
- 10. Multirow Formula Tool: depleting stock for orders with taking running total as reference
- 11. Filter Tool (T): push to orders list
- 12. Filter Tool (F): sending back to inventory and writing to inventory db

- 13. **Sample Tool and Filter Tool:** handling scenario where a product has fulfilled orders and still has stock left.
- 14. **Send back to inventory block:** selecting required columns and writing the left out inventory back to inventory db
- 15. **Creating Report block:** used for creating the necessary tables, merging them to create the report of orders list. Formula tool checks whether stock is the same as order and adds a comment.
- 16. **Interface Designer:** The app is set to chain itself. I.e once you have generated the order list it will let you to generate more order list till you exit

#### 3. Toys catalogue



- 1. Input Tool: loading data catalogue dat
- 2. Filter Tool: lets you select an Age group
- 3. Rest of the workflow: used for creating the necessary tables, merging them to create the report of toys catalogue
- 4. Interface Designer: The app is set to chain itself. I.e once you have generated the toys catalogue it will let you to generate more toys catalogue till you exit.

5.

For any suggestion/clarification feel free to reach out at <a href="mailto:atcodedog05.discussions@gmail.com">atcodedog05.discussions@gmail.com</a>

Looking forward for others solution:)

