**Introduction:**

Installing Alteryx Designer ---- PDF guide

Interface Walkthrough / Getting started with alteryx designer

**One Tool at a time**

* + - Input Data Tool
    - Browse Tool
    - Output Data Tool
    - Select
    - Filter
    - Formula
    - Sort
    - Join
    - Union
    - Summarize

**Data Mining Assignment Workflows**

* + - Customer Cluster
    - Decision Tree and Random Forest
    - Association Mining (Session Rule)
    - Time Series Algorithm

**Exercise Files**

All the resources availability for the exercise

**Input Tool :**

1. **Input Data Tool :** Connecting to Data Source /Excel /SQL how to view your data at any point in an Alteryx workflow, by using the Browse tool.
2. **Browse Tool :**  how to view your data at any point in an Alteryx workflow, by using the Browse tool
3. **Output Data Tool :** how to output data from Alteryx Designer, to a Microsoft Excel workbook /SQL

**Exercise : Read a customer Cluster.csv**

**Browse through the file and**

**Write it to a output file**

**Preparation Tool :**

1. **Select tool :** learn to use the select tool to select fields, rename fields and specify data types.
2. **Data Cleansing tool:** how to use the data cleansing tool, to address common data quality issues.
3. **Filter Tool :**  to use the Filter tool to restrict the data in the dataset based on custom conditions.
4. **Formula Tool :** to use the Formula tool to create custom expressions to apply to your data.
5. **Sort Tool :**  how to sort your data, using the Sort Tool.
6. **Record ID Tool :** how to add an ID column to your dataset, using the Record ID tool.
7. **Unique Tool :** how to create a dataset with distinct values, using the Unique tool.
8. **Sample Tool :** how to use the sample tool, to retrieve a sample of rows from your dataset, using the Sample tool
9. **Random% Sample Tool :** how to get a random sample of rows, using the Random Percent Sample tool.
10. **Imputation Tool:**  how to impute value in your data, using the Imputation tool.
11. **Tile Tool :** earn how to group rows in your data using the Tile tool.

**Exercise : Read a customer Cluster.csv**

**Browse through the file**

**Filter (Customer\_SK is not equal to 1 and month is not equal to 9)**

**Write it to a output file**

**Exercise : Read decision tree and random forest**

**Browse and sample the data**

**Join Tool :**

1. **Join tool :**  how to perform left, inner and right joins, using the Join tool.
2. **Union tool:** how to combine multiple datasets, using the Union tool.
3. **Append Tool :** append your data to perform cartesian joins, using the Append tool.
4. **Make Group Tool :** to create groups in your data based on association, using the Make Group tool.

**Transform Tool :**

1. **Summarize Tool :** how to aggregate your data, using the Summarize tool
2. **Transpose Tool :** how to change the orientation of your data, using the Transpose tool.
3. **CrossTab Tool :** how to change the orientation of your data, using the Cross Tab tool.

**Parse Tool:**

1. **Date Time Tool :** how to parse text to dates and vice versa, using the DateTime Parse tool.
2. **Text to Column:**  how to parse text to columns, using the Text to Columns tool.

**Documentation Tools :**

1. **Comment Tool :**learn to annotate your workflow, using the Comment tool
2. **Explorer Box Tool :** learn how to embed a web page into your Alteryx workflow canvas, using the Explorer Box tool
3. **Tool Container Tool :** learn to group and disable multiple tools, using the Tool Container

**Reporting Tool :**

1. **Interactive Chart Tool**
2. **Report Text Tool**
3. **Report header tool**
4. **Report Footer tool**
5. **Report Layout**

**Sample Flows :** **Preparing Data**

1. **Filtering Data**
2. **Blending Data**
3. **Analyzing Data**
4. **Time Series Tools**
5. **Standard Macros**
6. **Regression Analysis**
7. **Data Cleansing and Parsing Tools**
8. **Iterative Macro**
9. **Data Blending**
10. **Connecting to a File from Alteryx**
11. **Connecting to a Database with Alteryx**
12. **Basic blending Join Data Sets on Key fields**
13. **Parsing Data using Text to Columns field**

**Additional Exercise :**

1. **Cleanse, Prepare and Blend Data Overview**
2. **Data Preparation and Blending Demo**
3. **Filtering data with Alteryx Designer**
4. **Start Data Blending in Designer**
5. **Analyzing Data with Alteryx Desinger**

**Beginner Exercise : and walkthrough of the solution**

1. **Data Blending**
2. **Data parsing**
3. **Data Format 1**
4. **Data format 2**
5. **Analytics Ranking**
6. **Analytics Rolling Average**
7. **DataCleansing**

**Data Mining Exercise Demo :**

1. **Customer Cluster : Explanation**

**Exercise : Product Cluster**

**2. User Mining : explanation**

**Exercise : Session rules**

**Decision Tree Explanation**

**Time Series : exercise**

**Conclusion :**

**Alteryx community**

**Weekly Challenges**

**Exercise Files**

**Master the Tool**

**Optional : Alteryx Tips and Tricks**

