**STUDENT LAB BOOK**

**This student lab book is provided as a supplement to the Workouts Dashboard Book, to help students get through the labs better and faster, and yet contain excellent lessons, to achieve perfect dashboard results.**

**WORKOUT 1 – Lab 1 – 45-60 minutes (will be completed with trainer for the purposes of reviewing Tableau)**

**PERSONAL FINANCE DASHBOARD – Works as expected and can be completed from the class book. Explanations good.**

**BEST VALUE: Learning about horizontal and vertical containers**

**Timing: Since this is the first lab, you will do this from scratch (blanksheets starter)**

**There is:**

**1 Data Source**

**3 Sheets**

**1 Dashboard**

**WORKOUT 2 – Lab 2 – 30-45 minutes (trainer will work through this with you, for the purposes of review - again)**

**SUPERSTORE BASIC SALES DASHBOARD – Works as expected and can be completed from the class book. Explanations good.**

**BEST VALUE: More Vertical and Horizontal containers, Global Filters, Dual Axis**

**Timing: Use the “BlankSheets” Starter. There are 3 data sources already made for you. No tricks here, just easier to start with the data. There is:**

**3 Data Sources:**

**5 Sheets**

**1 Dashboard**

**Workout 3 done with instructor but the instructor will focus on how to use the “starterCompleteSheet” files, which you should do for the rest of the class.**

**CHAPTER WORKOUT 3 – Airbnb’s in New York – UPDATE – 9/15/2020 HIGHLY RECOMMEND THEY START WITH SHEETS AND DATA (starter\_completesheets). TOO MUCH WORK TO DO ON SHEETS – DEPENDS ON TIME – START ON PAGE 84 of Book if using sheets and data – plus this will establish that the students from this point forward should use completedSheets files. This is a dashboard class, after all.**

**UPDATE: 0/15/2020 - THE LAB HAS THEM ADD A REVIEWS SHEET TO THE BOTTOM OF THE DASHBOARD (next to map)**

**Chapter 3 Data Sources: NEED REVIEW SHEET ON GITHUB**

**&&MAYBE DO FROM SCRATCH WITH STUDENTS**

**\*\*\*\*\*PREFERENCES FILE**

**IF [Measure Selector] = “Price” THEN**

**AVG([Price])**

**ELSEIF [Measure Selector=”Reviews” THEN**

**SUM([Number of Reviews])**

**END**

**Number of Records no longer exists in new version, so do this:**

* **Go to E3 Airbnb Listings.csv(Count)**
* **Right-Click, Create Calculated Field – call it Number of Records**

**DON’T USE GLOBAL FILTERS AS INSTRUCTIONS SAY – WE HAVE ALREADY CUT DATA OUT. NO CHARTS WILL SHOW UP**

**DASHBOARD**

* **Don’t do LOD – just use COUNT fields**
* **On reviews page – add Comments to TEXT field instead of ROW**

**HTML CUSTOM COLORS: (you can copy these right from this file)**

**Rausch: #FF5A5F**

**Babu: #00A699**

**Arches: #FC642D**

**Hof: #484848**

**Foggy: #767676**

* **W3 Airbnb reviews.csv (extract is used here)**
* **W3 Airbnb listings.csv (extract is used here)**

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| **Start from DashboardDesign\_Chapter3\_Starter\_CompleteSheets.twbx** |
| **Create 1 Dashboard** |
| **Kindle Location: 900 – If you do not want to create any sheets, but want to jump right into creating the dashboard.**  **Total Time: 30-45** |
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| **View/Use Solution: DashboardDesign\_Chapter3\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are seven sheets, filters, parameters, calculations, converting to dimensions and converting data types. The dashboard is complex (but excellent).**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 4 – Billboard Hot 100 Analytics**

**Chapter 4 Data Sources:**

**W4**

* **W4 Features dataset.csv**
* **W4 Music dataset.csv**

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| **Start from DashboardDesign\_Chapter4\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(4), Story(1)** |
| **Kindle Location: 1223– If you do not want to create any sheets, but want to jump right into creating the dashboards and story.** |
| **Total Time: 45-60 Min.** |
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| **View/Use Solution: DashboardDesign\_Chapter4\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 7 sheets, 4 dashboards and their (1) first story. These labs introduce filters, stack charts, filters, some basic bar charts and trend lines. The dashboards are cool because they are beautiful, putting like charts together and then creating a story that includes dashboards, not just sheets. Interesting data. Not hard work, but a lot of it. Great Lab.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 5 – World Population Dashboard**

**Chapter 5 Data Sources:**

* **W5 GDP by country.csv**
* **W5 Population by Country.csv**
* **W5 Country details.csv**
* **W5 Countries of the World**

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| **Start from DashboardDesign\_Chapter5\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(1), Story(1)** |
| **Total Time: 45-60 Min.** |
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| **View/Use Solution: DashboardDesign\_Chapter5\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 7 sheets, 1 dashboard and 1 story. These labs introduce calculations (including LOD), filters, and sets with Outliers. It is only 1 story and 1 dashboard but it shows that once the more difficult tasks are done on the sheets, it pays off for the dashboard and story.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 6 – USA Colleges Dashboard – uses FLOATING**

**Chapter 6 Data Sources:**

**ON DASHBOARD: TEXT with HTTP or HTTPS**

**Initiaql web page.. https://www.educationconnection.com**

* **W6 IPEDS\_Data US Colleges.xlsx**

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| **Start from DashboardDesign\_Chapter6\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(1)** |
| **Kindle Location: 1776– If you do not want to create any sheets, but want to jump right into creating the dashboards and story.** |
| **Total Time: 30-45 Min.** |
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| **View/Use Solution: DashboardDesign\_Chapter6\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 6 sheets and 1 dashboard only. But the dashboard is complex and will challenge the students, even if they don’t do the sheets in the chapter. These labs introduce a great use of text properties in sheets and on a dashboard, mapping, pivots, and formatting.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 7 – FIFA 19 – Player Rank Dashboard – Floating, Tiled and Filters, Dashboard Actions**

**Chapter 7 Data Sources:**

* **W7 fifa 19\_dataset.csv (French Internationale de football association – year 2019)**

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| **Start from DashboardDesign\_Chapter7\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(1)** |
| **Kindle Location: 1776– If you do not want to create any sheets, but want to jump right into creating the dashboards and story.** |
| **Total Time: 30-45 Min.** |
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| **View/Use Solution: DashboardDesign\_Chapter7\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 6 sheets and 1 dashboard only. Parameters are included, calculated fields (including LOD), Filters, Graphs, Folders and Floating Items in Dashboards. If the students are starting with the starter\_dataonly files, they have a lot of work to do with calculations. They can, as an alternative copy and paste those from solution. Also, ALL the calculations were left in all the projects because there were so many. Students can open them to look at them.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 8 – Olympics Dashboard**

**Chapter 8 Data Sources:**

* **W8 Athlete events.csv**
* **W8 noc\_regions.csv**

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| **Start from DashboardDesign\_Chapter8\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(1)** |
| **Kindle Location: 1776– If you do not want to create any sheets, but want to jump right into creating the dashboards and story.** |
| **Total Time: 30-45 Min.** |
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| **View/Use Solution: DashboardDesign\_Chapter8\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 5 sheets and 1 dashboard only. Parameters are included, calculated fields, converting data types, converting dimensions to measures, using filters, parameters and highlight action. If students are doing this from scratch it is quite a bit of work.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**

**CHAPTER WORKOUT 9 – You Tube Trending Dashboard**

**Chapter 9 Data Sources:**

* **W9 US Videos.csv**
* **W9 US Category id.json**

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| **Start from DashboardDesign\_Chapter9\_Starter\_CompleteSheets.twbx** |
| **Create dashboards(1)** |
| **Kindle Location: 2363– If you do not want to create any sheets, but want to jump right into creating the dashboards and story.** |
| **Total Time: 45-60 min** |
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| **View/Use Solution: DashboardDesign\_Chapter9\_Solution.twbx** |
| **Open the solution file to view, copy/paste objects, or if you want to skip lab – no lab time** |
| **Kindle Location: N/T** |

**Trainers: There are 10 sheets and 1 dashboard only. This is an extremely difficult project because there are NO step-by-step directions. Of course all students should look at the solution at the least, but if there is time on the last day, you can leave this project optional and they can start anywhere they wish to.**

* **Easy**
* **Easy with some challenge**
* **Challenging**
* **Extremely Difficult**