#### Racing Towards Insights

Analysing the Sale Sizzler 5k Series with VSCode Data Wrangler And Power BI

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#### **Damien Jones**

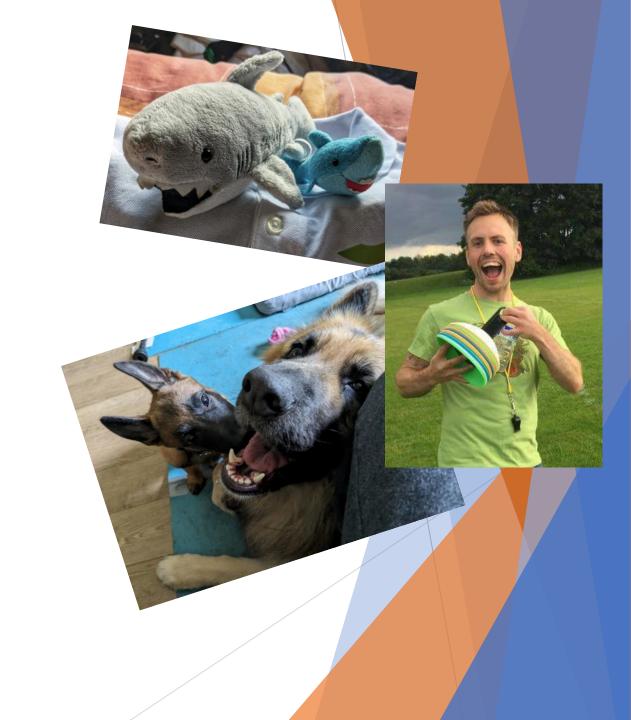
♂ He/Him ③ Manchester UK 刻 Fin Fan

Data Engineer @ SecureDev

AWS & Azure Certified

Creator @ amazonwebshark.com

Runner; Keen Gardener; Dog Dad



#### Agenda

Sale Sizzlers Introduction

VS Code Data Wrangler Introduction

Data Wrangler & Power BI Demos

Summary & Questions

#### Sale Sizzlers



5k road race series operated by Sale Harriers Manchester

First events in 2002

Four events each Summer

Since 2016 results published by Nifty as CSV



#### Sale Sizzlers Data

#### Runner Data

Number	First name	Last name	Club
490	Thomas	Charles	Chorlton Runners
125	Ryan	Moore	Vale Royal AC
498	Martin	Clark	Bury Athletic Club
487	Harry	Johnson	Halifax Harriers & AC
183	Paul	Peters	Sale Harriers Manchester

**Event Data** 

Finish time	Chip time	
00:15:11	00:15:11	
00:15:26	00:15:26	
00:15:29	00:15:28	
00:15:34	00:15:33	
00:15:59	00:15:58	
00:16:05	00:16:04	

#### Sale Sizzlers: Rank Data

**Overall Position** 

**Gender Position** 

Age Category Position

Position	Finish time	Gender	Gender position	Category	Category position
1	00:15:11	Male	1	Senior Male (20-39)	1
2	00:15:26	Male	2	Senior Male (20-39)	2
3	00:15:29	Male	3	Senior Male (20-39)	3
4	00:15:34	Male	4	Senior Male (20-39)	4
5	00:15:59	Male	5	Senior Male (20-39)	5
6	00:16:05	Male	6	Under 20	1
7	00:16:05	Male	7	Under 20	2

#### **Insights**







#### Visual Studio Code

Read Code

Write Code

Deploy Code

Free!



#### VS Code Data Wrangler

VS Code Extension by Microsoft

In active development

Designed for data cleansing

Also free!

#### Data Wrangler Benefits

No-code interface

Data updates in real time

Source data unchanged

Similarities to Excel and Power Query

#### Data Wrangler Benefits

One single transformation process

Data is ready when it hits Power BI

Reduce Power BI computational load

Transform data closer to source

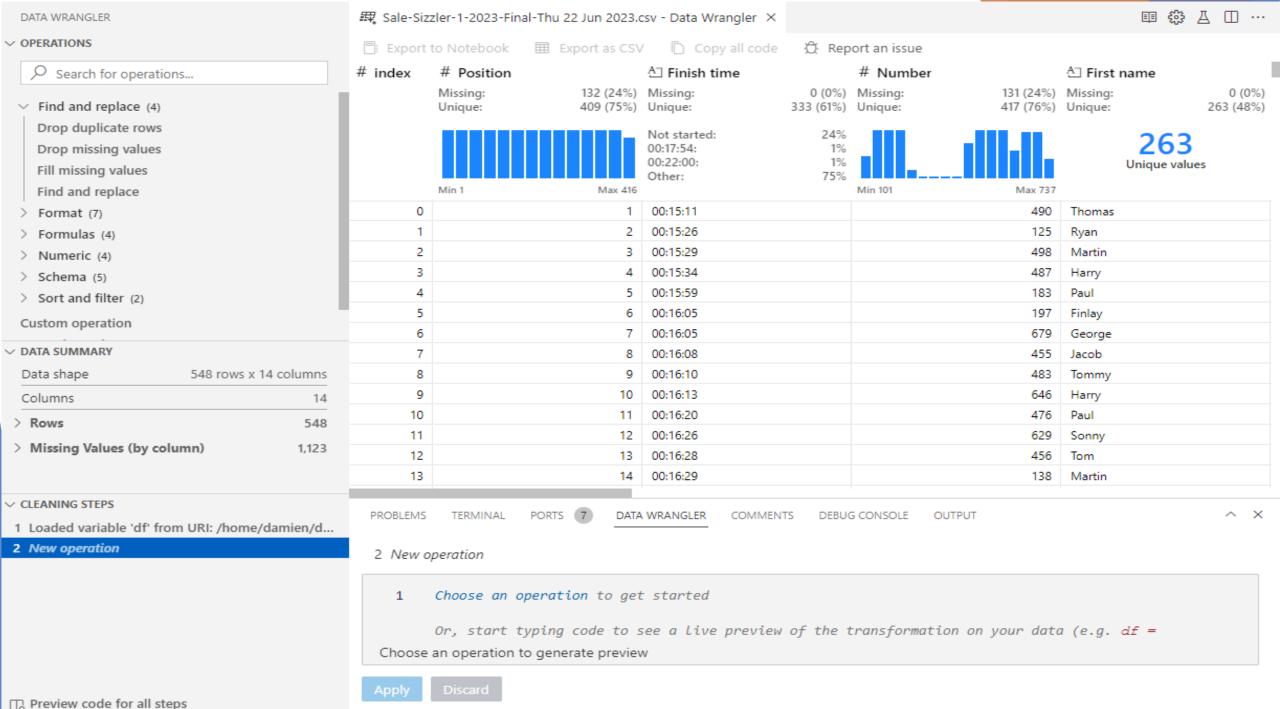
#### Roche's Maxim of Data Transformation

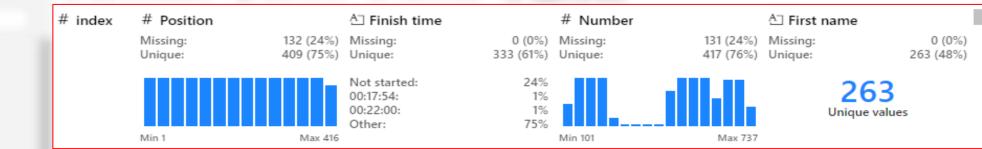
Data should be transformed...

As far **upstream** as possible

As far downstream as necessary



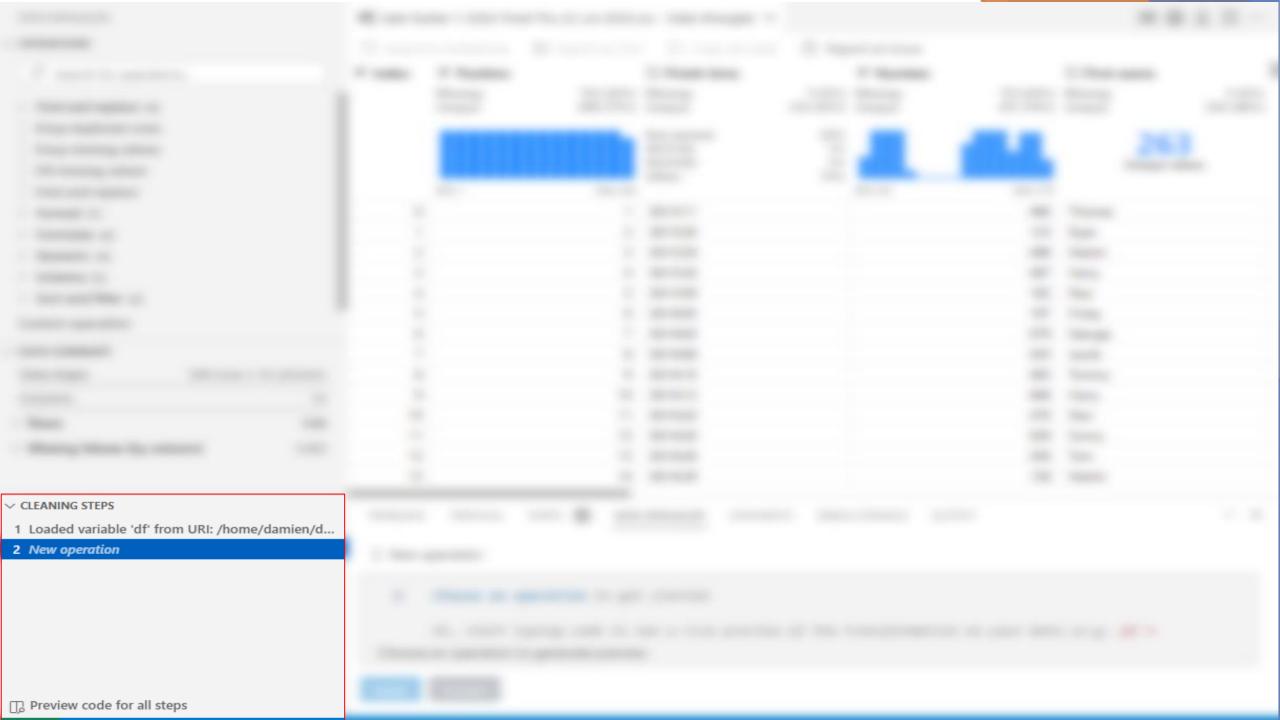




# ✓ OPERATIONS ✓ Search for operations... ✓ Find and replace (4) Drop duplicate rows Drop missing values Fill missing values Find and replace ➤ Format (7) ➤ Formulas (4) ➤ Numeric (4) ➤ Schema (5) ➤ Sort and filter (2)

Custom operation

### Data shape 548 rows x 14 columns Columns 14 Rows 548 Missing Values (by column) 1,123



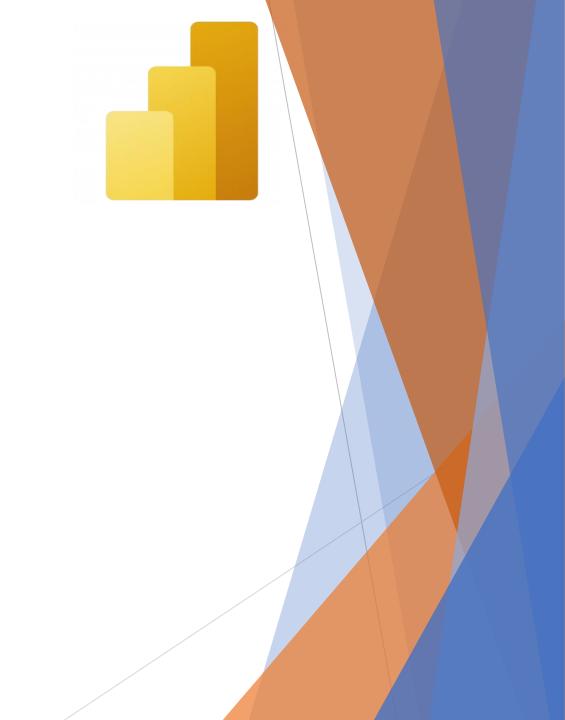
## 2 New operation Choose an operation to get started Or, start typing code to see a live preview of the transformation on your data (e.g. df =

Choose an operation to generate preview



Demos - VS Code (Sizzler 1)

#### Demos - Power BI



#### Summary

#### Sale Sizzlers

What they are

What data they generate

What insights were wanted

#### VS Code Data Wrangler

What are VS Code and Data Wrangler

Data Wrangler benefits

Data Wrangler features

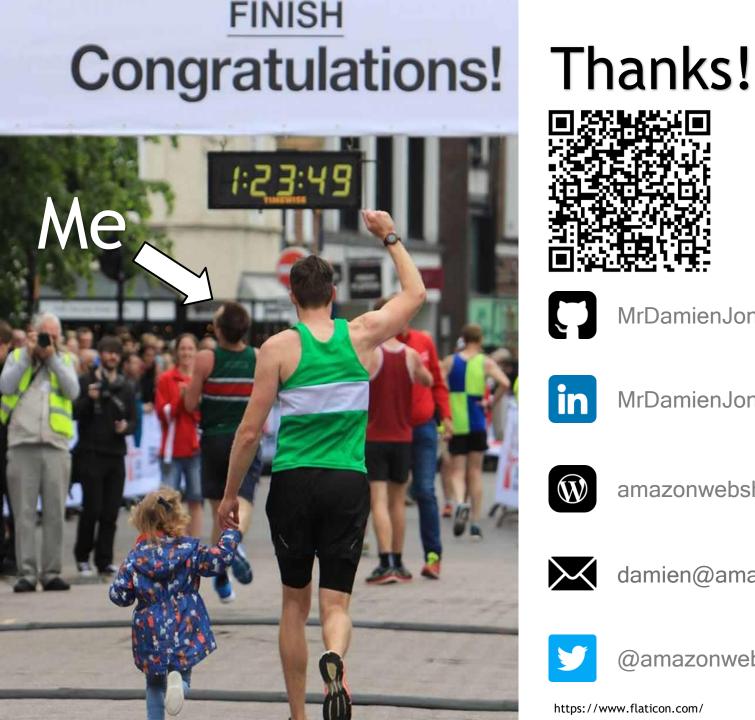
Demo

#### Power BI

Built a model

Examined visuals

Generated insights







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