Phones in flight mode…

Browser tabs closed or minimised (multitasking [negatively impacts learning](#) and increases anxiety)

Directed study review

- What was **useful** in the Burgess **reading**?
- What **questions** did you have?
- What might you **use** from <u>reverse engineering the stories</u>?

Reverse engineering Upmarket tennis and golf clubs among recipients of major sports grants

FOI has been used in this story to find out how much money certain sports clubs have been awarded by the sports grants scheme in Australia. FOI has also been used to find out how the money has been spent and what on, and how the clubs have benefited from the grants. **Some data has been found from the accounts of these sports clubs which may be available anyway**.

They may have asked the government in Australia, controls of state, and sporting bodies for this information.

They will have asked **how much money from the sports grant scheme has been awarded to [name] club, what the money was granted towards/for,**
how it has been spent, and
what on.

I can utilise these skills in **by finding out just where one grant has been awarded**, it leads to finding out what this has been used for, sourcing quotes from someone directly involved with the organisation and to finding out where other grants have been awarded. Going forward into the assignment, I have learned the importance of comparison in articles.

[Police record rise in religious hate crimes after Israel-Gaza war](#)

FOI was used to show the number of both antisemitic and Islamophobic offences in each area compared to 2022, as well as which areas had the **biggest rise** in religious hate crimes following 'Israel-Gaza war.'

Public bodies contacted were: emergency services i.e. **police** (Greater Manchester, West Yorkshire, WM, Merseyside, Hertfordshire & Thames Valley, British Transport police)

Questions asked may have been: has there been a rise in / what is the state of religious hate crimes in the month following Oct 7th? ***[as that's a yes/no question it's more likely they asked for numbers]***
What could have been better: the focus is mainly on antisemitism at the start, suggesting a bias.

Overall I can use this knowledge to obtain quotes/comments form spokespeople and those directly involved within organisations, charities etc. to add more depth to my story than just numbers alone. I can also implement the practice of **comparing data and sourcing a wide variety of information** that is of importance and public interest through FOI requests. From reading this article I learnt that **full data may not always be supplied due to delays by public bodies**.

UK universities fine students £170,000 for Covid rule breaches

FOI sent – They would have contacted **each university** asking **how many students had fines,**
the cost of that fine and
the reason for the fine.

For comment they asked: students as well as **some of the universities** they spoke to **Universities UK** and the
National Union of Students.

What could be better? - For Aberdeen University, a second **follow-up FOI could have been used** to ask for the number of students that were fined. If they did not provide the number of students within this one, then that could be another story. Alongside this, **it would be good to hear the reason as to why they decided not to disclose the number of students**. Furthermore, if the data was provided in a spreadsheet, it would be good for the reader to be able to see this, so they are able to see the information/response themself.

How can I use this? - For my FOI stories, it has shown me the importance to make sure that I **chase answers and ensure that where I can, I get all the information I ask for**. This will ensure that I have all the information to ensure that the data is accurate and gives a fair representation of the institutions I have included within the stories. Furthermore, it has shown me that **just having the data alone is not enough for the story.**

Using in an evaluation (don't quote facts!):

Burgess (2015) suggests ideas for FOI requests can be inspired by others that have already been made. So I searched for FOI requests in [my field] to get ideas (see Appendix C)
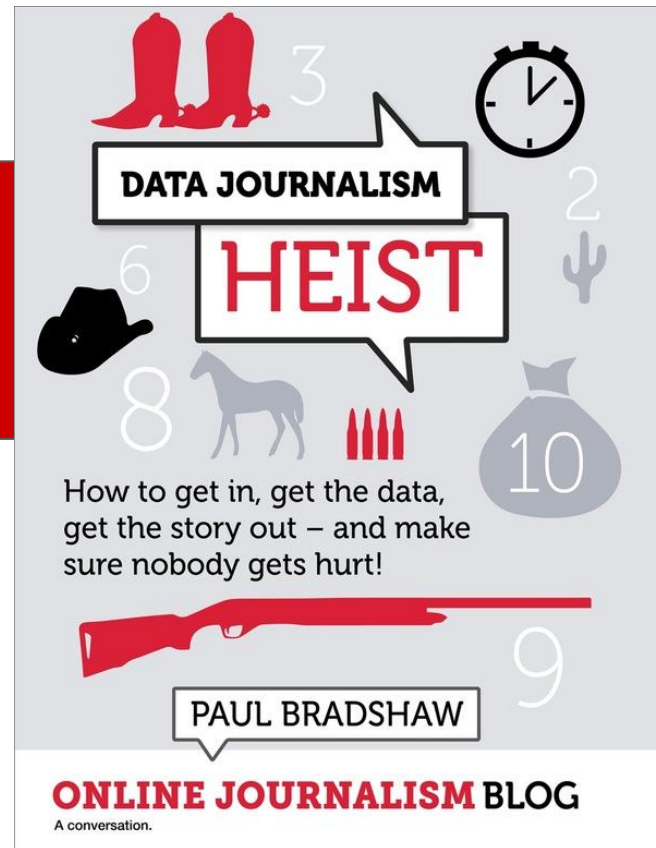
Using in an evaluation:

I decided to send an FOI asking for the data behind a press release (Appendix D), an idea inspired by Burgess (2015)

Using in an evaluation:

I sent a "round robin" FOI (Burgess 2015) to all the police forces in the UK (Appendix E). This can be time consuming (Burgess 2015) so I planned ahead to allow enough time for compiling the responses.
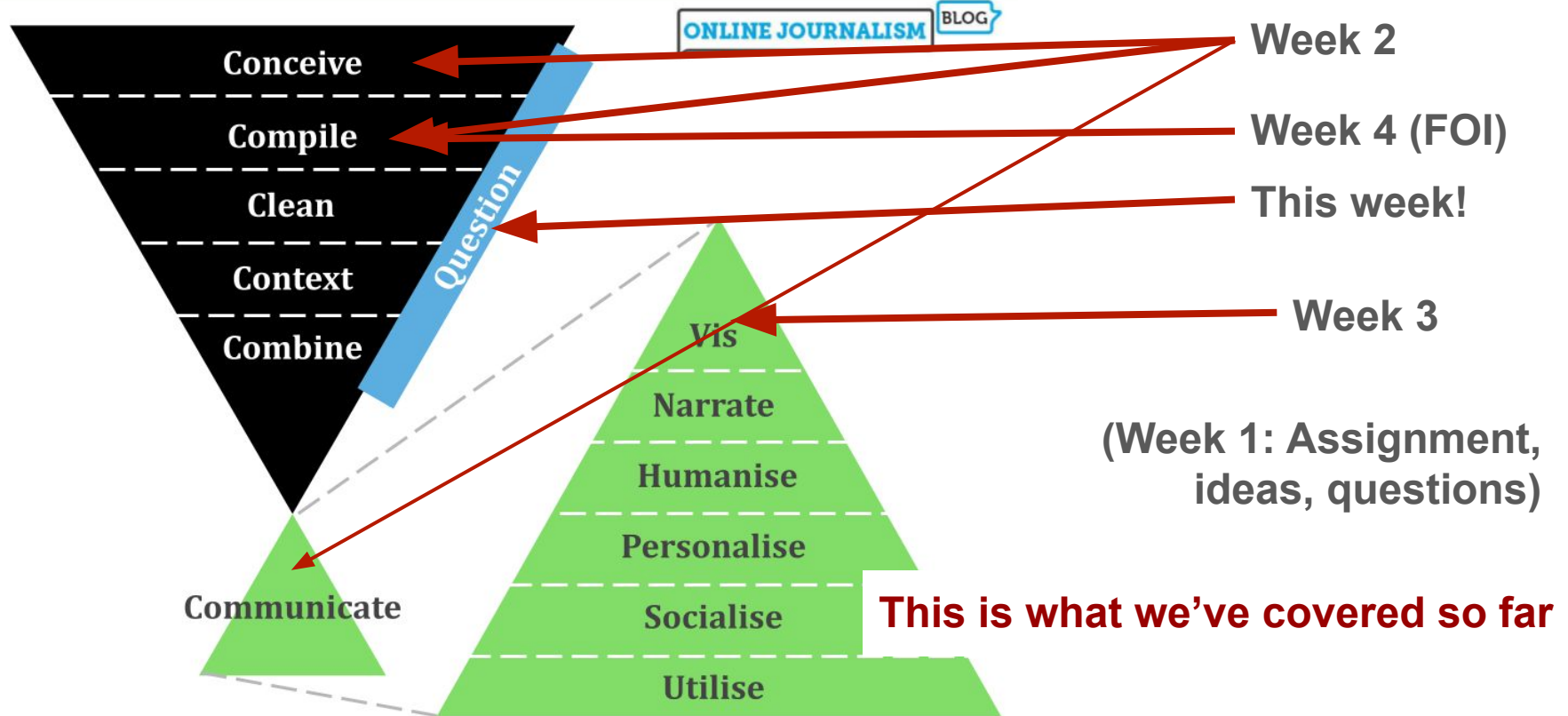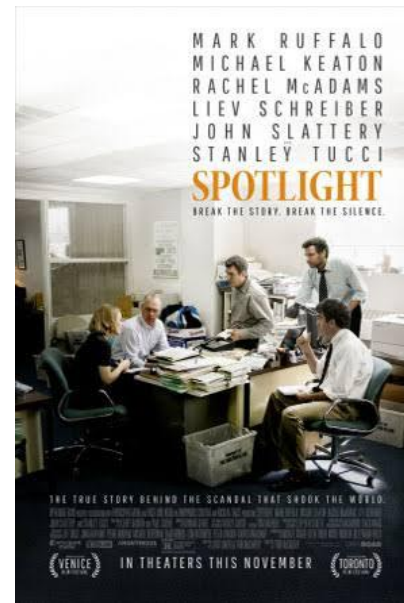
Did you read it?

DATA JOURNALISM HEIST

How to get in, get the data, get the story out – and make sure nobody gets hurt!

PAUL BRADSHAW

ONLINE JOURNALISM BLOG
A conversation.

Free copy for BCU students!
leanpub.com/DataJournalismHeist/c/bcustudents

The Inverted Pyramid of Data Journalism

ONLINE JOURNALISM BLOG

Conceive

Compile

Clean

Context

Combine

Question

Vis

Narrate

Humanise

Personalise

Socialise

Utilise

Communicate

Week 2

Week 4 (FOI)

This week!

Week 3

(Week 1: Assignment, ideas, questions)

This is what we've covered so far

Paul Bradshaw 2023

data journalism's 3 chords

This section will cover:

- Common techniques for finding stories in data
- What types of stories each technique can help you find

"Data journalists are the new punks"

Data journalism's 3 basic chords...

- Sorting (who's worst/best?)
- Filtering (what's relevant to my audience?)
- Calculations (what's meaningful? Totals, proportions, percentage change, etc)

For example: gender pay gap data

	A	B	C	D	E	F
1	EmployerName	Address	CompanyNumber	SicCodes	DiffMeanHourlyPercent	DiffMedianHourlyPercent
2	23.5 DEGREES LII	Unit 3	8014079	56103	10	0
3	ABACUS HOTELS	White Lion	3101431	55100	37.8	3.5
4	Abbeyfield Wale:	Pagefield		87100,	21.9	7.6
5	ABERDEEN JOUR	Lang	SC015256	18110,	15.7	13.3
6	ACEGOLD LIMITE	Norcliffe	3484784	86900	-5.1	2
7	ADAPT BUSINESS	Canolfan	6805468	81229	3.3	0
8	ADDITIONS (U.K.)	Coach	1945425	78200	0	0
9	ADECCO UK LIMI	Millennium	593232	78200	-7.8	-3.2
10	ALLIANCE CARE (	Norcliffe	3691542	86900	-0.8	0.3
11	ALLIANCE CLEAN	Unit 5,	3596969	81299	2	0
12	ALLIANCE MEDIC	Iceni	2128897	86101,	21	23
13	AMVALE MEDIC/	Unit 1, C/D	4502825	82990	7	0
14	APETITO LIMITEI	Canal Road,	233851	10850	18	13.2

https://gender-pay-gap.service.gov.uk/

Sorting and filtering to find stories

- Sort it to bring outliers to the top
- Filter it to identify organisations in a particular area or industry (further manual filtering may be required)
- Filter — and then sort!

Sorted Z-A by mean pay gap

	A	B	C	D	E	F	G
1	EmployerName	Employe	Address	PostCode	CompanyN	SicCodes	DiffMeanHourlyPercent
2	HPI UK HOLDING LTD.	635	7 Albema	W1S 4HQ	5598207	55100	100
3	M. ANDERSON CONSTRUCTION LIMITED	20315	Springfiel	CM2 5PW	2207082	41100	100
4	PSJ FABRICATIONS LTD	19413	Booth P	WA16 8QZ	1205595	25110	100
5	BIRMINGHAM CITY FOOTBALL CLUB PLC	15371	St Andrew	9 4NH	27318	93120	99
6	ACUSHNET EUROPE LTD	883	Caxton R	PE27 3LU	1198336	32300	96.8
7	HOOK 2 SISTERS LIMITED	6290	Cote, Bar	OX18 2L	5969169	1470	92
8	CHELSEA FOOTBALL CLUB LIMITED	3148	Stamford	SW6 1HS	1965149	93120	91.6
9	BRAND ENERGY & INFRASTRUCTURE						
10	MANCHESTER CITY FOOTBALL CLUB						
11	NEWCASTLE UNITED FOOTBALL COM						
12	LEEDS UNITED FOOTBALL CLUB LIMIT						

Home Insert Draw Page Layout Formulas **Data**

Queries & Connections
Properties
Edit Links

Get External Data   Refresh All

Sort   Filter

Sorted A-Z by mean pay gap

	A	B	C	D	E	F	G
1	EmployerName	Employe	Address	PostCode	CompanyN	SicCodes	DiffMeanHourlyPercent
2	ANKH CONCEPTS HOSPITALITY MANAGEM	485	30 Argyll	W1F 7EB	6603179	78300	-379.6
3	FORTEL SERVICES LIMITED	5250	1 Diversit	WS2 8DS	3559714	42990	-184.2
4	REVOLUCION DE CUBA LIMITED	10439	1 Old St	OL6 6LA	8838595	47250	-182
5	CONCEPT RECRUITMENT GROUP LIMITED	3501	Hasolden	WF1 3LQ	5888879	78200	-177.7
6	TOTAL RECRUIT LTD	20186	Whitecr	LS29 6PB	1.2E+07	78200	-143
7	STAPLES (VEGETABLES) LIMITED	11662	Station F	PE22 0S	504587	10390, 49410	-133.7
8	FIRSTPOINT HOMECARE LIMITED	15593	Kingston	M20 2LD	719916	87300	-123.6
9	R E PERSONNEL LIMITED	10207	Manor P	GL51 9TU	430 078	78109	-109
10	C.J.L. CONSTRUCTION LIMITED	2649	Woodlan	BS25 5OR	177666	42990	-103.3
11	QUEST PAY SOLUTIONS NE LIMITED						
12	ELEMIS LIMITED						
13	PICTUREHOUSE CINEMAS LIMITED						
14	MARS FOOD UK LIMITED						

https://gender-pay-gap.service.gov.uk/

Equal pay

⏱ This article is more than **1 year old**

The UK companies reporting the biggest gender pay gaps

Lingerie group Boux Avenue, Apple, Ryanair and investment firm Macquarie Group top list

Sorting 'reveals' the **worst/best** companies

▲ UK companies with more than 250 employees had to report details of gender pay gaps by midnight on Wednesday. Composite: Frank Hulley-Jones

https://www.cosmopolitan.com/uk/reports/a27042068/gender-pay-gap-2019-best-worst-companies/
https://www.theguardian.com/society/2018/apr/05/the-uk-companies-reporting-the-biggest-gender-pay-gaps

Sorted Z-A — and filtered

Sorted Z-A — and filtered

Sorted Z-A — and filtered

	A	B	C	D	E	F	G
1	EmployerName	Emplo	Address	PostCod	Compar	SicCode	DiffMeanHourlyPercen
5	BIRMINGHAM CITY FOOTBALL CLUB PLC	15371	St Andrews Stadium, Small Heath, Birmingham, B9				99
29	NSWE SPORTS LIMITED	10364	Villa Park, Birmingham, West Midlands, B6 6HE				84.3
67	HEADLAM GROUP PLC	6037	PO BOX 1 Gorsey Lane, Coleshill, Birmingham, We				61.2
75	DENTAL PARTNERS TRADING LIMITED	20622	Dental Partners Support Centre 476-478 Bristol R				59
77	RUSH HAIR LIMITED	10709	C/O Opus Restructuring Llp Cornwall Buildings, 45				58.5
128	GATELEY PLC	5397	One Eleven, Edmund Street, Birmingham, B3 2HJ				49.7
162	GENTING CASINOS UK LIMITED	5455	Genting Club Star City, Watson Road, Birmingham				47
204	Our Health Partnership	16205	First Floor, 1856 Pershore Road, Cotteridge, Birmi				45
324	MISSGUIDED LIMITED	8514	C/O Teneo Financial Advisory Limited 156 Great C				40.6
436	NATIONAL EXHIBITION CENTRE LIMITED (	300	National Exhibition Centre, Birmingham West Mid				38
450	Modality Partnership	15242	Orsborn House, 55 Terrace Road, Birmingham, B1	B19 1BP		1	37.7
500	SALTS HEALTHCARE LIMITED	10840	Richard Street, Aston, Birmingham, West Midalnd	B7 4AA	74096	32990	36.7
525	ROYAL ORTHOPAEDIC HOSPITAL	10667	Bristol Road South, Northfield, Birmingham, West	B31 2AP	RC000510		36.3

Address

Sort
- Ascending
- Descending
- By colour: None

Filter
- By colour: None
- Choose One
- 🔍 birmingham
- ☑ (Select All Search Results
- ☑ 1 Centenary Square, Birm
- ☑ 1 Chamberlain Square Cs,
- ☑ 1 Victoria Square, Birming
- ☑ 1 Wharf Road, Tyseley, Bii
- ☑ 1 Wythall Green Way, Wyt
- ☑ 1, Trinity Park, Bickenhill L
- ☑ Auto Apply
- Apply Filter   Clear Filter

https://gender-pay-gap.service.gov.uk/

Gender pay gaps in academy school chains among the worst in UK

Guardian analysis reveals several trusts where women face hourly pay deficit of more than 50%

This is the gender income gap in Birmingham - and it's bigger than you think

It shows female taxpayers in the West Midlands have an average pre-tax income of £24,679 - compared to £33,067 for men

SHARE

By **David Ottewell** & **James Rodger** Head Of Trends
05:30, 10 MAR 2019

▸ Enter your **postcode** for **local news** and **info**   Enter your postcode   **Go**   In ⌂⌂⌂
                                                                                          YourArea

WHAT IS THE GENDER PAY GAP?

Filtering to reveal the scale/ranking in **one category**

Calculating to find stories

- Divide change by the starting figure to get a percentage change
- Divide the part by the whole to get a proportion (% of whole)

Calculating a proportion

- 73 companies out of 100 pay men more than women.
- Divide the part by the whole: `=73/100`
- = 0.73 (This means 73%)
- Change formatting to show that as 73%

North East gender pay gap gets worse as 55% of firms see divide widen

Second round of gender pay figures show that women are now paid 11.3% less than men in the North East

SHARE [f] [◉] [y] [in] [F] [✉]

By **Jonathon Manning**
16:22, 5 APR 2019 | UPDATED 11:23, 9 A

Gender pay gap widening at one in four government bodies, figures show

Gap across civil service has shrunk by two points since 2010, suggesting equality will take another 37 years

WHITEHALL
SW1
→

STER

Calculating to reveal the **scale**
(+ filtering = one category)

The Athletic

Exploratory feature: ranking across different measures

The gender pay gap: How do Premier League clubs compare?

Jacob Whitehead   Mar 8, 2023   248

March 8 marks International Women's Day, an opportunity to celebrate the progress made towards gender equality but also to highlight the work still to do.

Football is no different. A legacy of England's Women's European Championship win is the UK government's pledge to give girls equal access to sport in schools but *The Athletic* has also reported on the harassment regularly faced by female football fans.

Though the mean pay gap is often quoted, very high or low pay can distort the results — the median is considered to show the more 'typical' situation. In the Premier League, where the first-team men's squad is exceptionally well-paid, the median is a more appropriate measure.

The Athletic also contacted each Premier League club with a negative pay gap to ask if they wished to comment on the findings.

As pointed out by several smaller clubs, teams that employ fewer members of staff are at a slight disadvantage, with the first-team playing squad more likely to skew the median, which should be considered.

The Athletic The gender pay gap: How do Premier League clubs compare?

- Chapter 1: Ranking mean pay gap Z-A (*Nottingham Forest have the largest gender pay gap*)
- Ch2: Ranking A-Z (*West Ham's gender pay gap shows a large advantage for female staff*)
- Ch3: Ranking on another column A-Z (*Who employs the fewest women in the upper pay quartile?*)
- Ch4: Calculation then ranking (*Which clubs have improved the most?*)

Tip: March 8 is International Women's Day

Editorial planning:
Use as a **topical hook** for an exploration of data on gender pay gap in your field

Calculating a change

- The number of companies paying men more than women rose from 53 to 73
- Calculate the change: 73-53 = 20
- Divide the change by the older figure: 20/53
- = 0.38 ("increased 38%")

Calculating a change (one org)

- Pay gap at one club dropped from 75 to 25
- Calculate the change: 75-25 = 50
- Divide the change by the older figure: 50/75
- = 0.66 ("dropped 66%" or "by two thirds")

Finding stories with pivot tables

- Create the empty pivot table
- Put your focus column in **Rows**
- Put what you want to count, or sum, in **Values**
- Put any periods in **Columns**
- Create your own calculations of change etc.

Example: what is the scale of stop and search in your area?

Met officers investigated after black boy, 16, stopped six times in five months

Police watchdog investigating eight officers after complaints of racial profiling over stops in Tottenham and Stratford

Take one '**event**' in the news and look for **data** that tells a story about the bigger picture

Example:
Who is stopped and searched?

Row Labels	Count of Self-defined ethnicity
White - English/Welsh/Scottish/Northern Irish/British	764
Asian/Asian British - Pakistani	499
Black/African/Caribbean/Black British - Caribbean	248
Other ethnic group - Not stated	222
Black/African/Caribbean/Black British - African	153
White - Any other White background	146
Asian/Asian British - Indian	144
Mixed/Multiple ethnic groups - White and Black Caribbean	110
Black/African/Caribbean/Black British - Any other Black/Af	84
Mixed/Multiple ethnic groups - Any other Mixed/Multiple	69
Asian/Asian British - Bangladeshi	44
Mixed/Multiple ethnic groups - White and Asian	21
White - Irish	20
White - Gypsy or Irish Traveller	4
Asian/Asian British - Any other Asian background	2
Asian/Asian British - Chinese	1
(blank)	
Grand Total	2531

PivotTable Fields

FIELD NAME   Search fields

Gender
Age range
☑ Self-defined ethnicity
Officer-defined ethnicity

▼ Filters   �III Columns

☰ Rows   Σ Values

⋮ Self-defined eth... ⓘ   ⋮ Count of Self-d... ⓘ

Drag fields between areas

Tip: <u>News story about Met officers being investigated</u>

Use as a **topical* hook** for an exploration of data on stop and search in your area

*Topical means it has to have happened in the last week or so

Tip: if it's not *topical*, **lead on a reaction* to your analysis**

(This should *not* be Joe Public: interview someone whose **authority** or **expertise** makes it **newsworthy**)

Examples would include campaign groups and groups that represent victims, politicians, police, academics etc.

"If we cannot explain why it is disproportionate then we are in a very bad place" - Assistant Commissioner of the Metropolitan Police on stop and search powers

Figures show Asian minorities are disproportionately stopped and searched by police forces.

Posted on January 21, 2021

https://gwilloughby99.github.io/2021-01-21-stopandsearch-analysis/

Video walkthroughs on sorting, filtering and pivot tables

Example: <u>What</u> is getting <u>how much</u>?

Row Labels	Sum of 2023-26 Annual Funding (Offered 4 Nov 2022)
Theatre	£ 111,574,250
Combined arts	£ 81,943,672
Music	£ 65,129,380
Visual arts	£ 47,372,659
Dance	£ 46,907,702
Museums	£ 36,647,341
Not discipline specific	£ 34,805,780
Literature	£ 16,027,669
Libraries	£ 4,162,720
Grand Total	**£ 444,571,173**

PivotTable Fields

FIELD NAME · Search fields

- ☐ 2022/23 Annual Funding (Extension year)
- ☑ 2023-26 Annual Funding (Offered 4 Nov
- ☑ Main Discipline
- ☐ ACE Area

Filters

Columns

Rows
- Main Discipline

Values
- Sum of 2023-26...

Example: Where is getting how much?

Row Labels	Sum of 2023-26 Annual Funding (Offered 4 Nov 2022)
Lambeth	£ 41,227,421
Westminster	£ 30,112,508
Leeds	£ 28,948,850
Birmingham	£ 26,534,514
Manchester	£ 24,618,070
Stratford-on-Avon	£ 15,860,562
Tower Hamlets	£ 13,990,814
Southwark	£ 12,297,157
Camden	£ 10,439,801
Islington	£ 10,026,436
Liverpool	£ 9,932,966
Bristol, City of	£ 9,215,443
Newcastle upon Tyne	£ 8,929,115

PivotTable Fields

FIELD NAME   Search fields

- ☐ 2022/23 Annual Funding (Extension ye...
- ☑ 2023-26 Annual Funding (Offered 4 No...
- ☐ Main Discipline
- ☐ ACE Area
- ☐ ONS region
- ☐ Constituency
- ☑ Local authority

Filters

Columns

Rows
: Local authority

Values
: Sum of 2023-2...

Example: <u>Who</u> is getting <u>how much</u>?

	Row Labels	Sum of Actual Value
3	**Row Labels** 🔽	**Sum of Actual Value**
4	LIVERPOOL STREETSCENE SERVICES LIMI	4819553.95
5	MERSEY CARE NHS FOUNDATION TRUST	2757281.84
6	MERSEYSIDE WASTE DISPOSAL AUTHORITY	2728510.2
7	VINCI CONSTRUCTION UK LIMITED	2060707
8	****REDACTED PERSONAL INFO****	1578289.19
9	WIRRAL BOROUGH COUNCIL	1366879.44
10	LIVERPOOL SCHOOLS SERVICES LTD VARI	1339194.93
11	HUYTON ASPHALT LTD	1324203.27
12	MORGAN SINDALL PLC	1181664.74
13	LIVERPOOL YMCA (SP)	997867.4
14	RIVERSIDE	994528.97
15	COMMUNITY INTEGRATED CARE	724746.79
16	LIVERPOOL CHARITY & VOLUNTARY SERVI	625000

PivotTable Fields ✕

FIELD NAME 🔍 Search fields

☐ SAP Document Number
☐ Posting date
☑ Vendor
☑ Actual Value

▽ Filters

III Columns

≡ Rows
⋮ Vendor ⓘ

Σ Values
⋮ Sum of Actual V... ⓘ

Drag fields between areas

Key points to remember

- A quick sort can show you **outliers** to investigate further
- A quick filter allows you to **focus** on an area or field
- A quick % calculation can tell you how much something has **changed**, or the **proportion** something accounts for
- A quick pivot table can allow you **compare** areas, categories and/or time periods and which merits further investigation...
- ...and after 5 minutes of the above you **pick up the phone...**

"The most important piece of technology on my desk is my landline **telephone**. I think some people have the idea that "data journalism" means staring at spreadsheets until a story magically appears, but in the real world that almost never happens. The best stories almost always emerge from talking to **people**, whether they are experts or just ordinary people affected by the issues we write about. They're the ones who **pose the questions** that data can help answer, or who help **explain** the trends that the data reveals, or who can provide the **wrinkles and nuances** that the data glosses over."

Questions?

- How could you use sorting and filtering to give you a story?
- Will you need to calculate a change, percentage, or total?
- Could you use a pivot table to give you totals per category/area?

Mid module survey