Massachusetts Department of Public Health
Bureau of Environmental Health
Food Protection Program

Presentation to the MA Health Officers Association

An alternative risk-based inspection schedule for 105 CMR 590.008(H)
[How to use MS Excel to manage data and work plan]

October 2021

Michael Moore, Director, MDPH/BEH/FPP

cooking
field
events
high
Big
example
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Furthermore
Food
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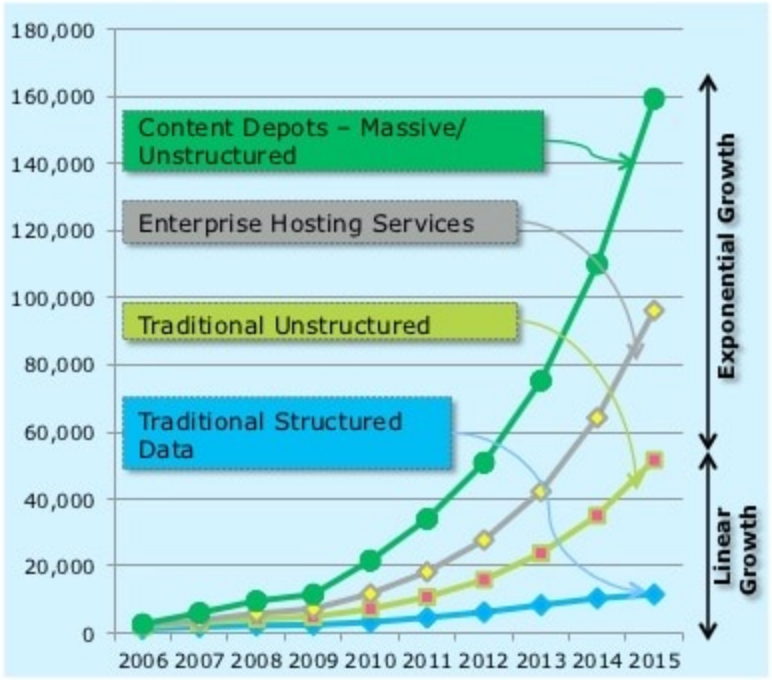
Big Data Tsunami



Between the birth of the world and 2003, there were five Exabyte of information created. We now create five Exabyte every two days

Eric Schmidt

Google

Over **24 Petabytes**
Data processed by Google* every day in 2011

Four billion
Pieces of content shared on Facebook* every day by July 2011

250 Million
Tweets per day in October 2011

5.5 million
Legitimate emails sent every second in 2011

2.7 Zetabytes of data in 2012, 15 billion connected devices by 2015 !!!

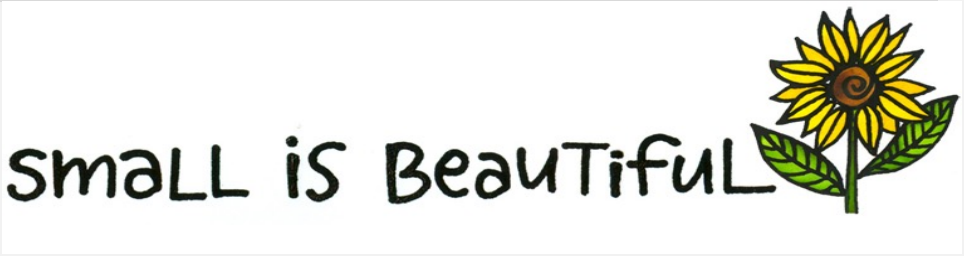
IDF2012
INTEL DEVELOPER FORUM

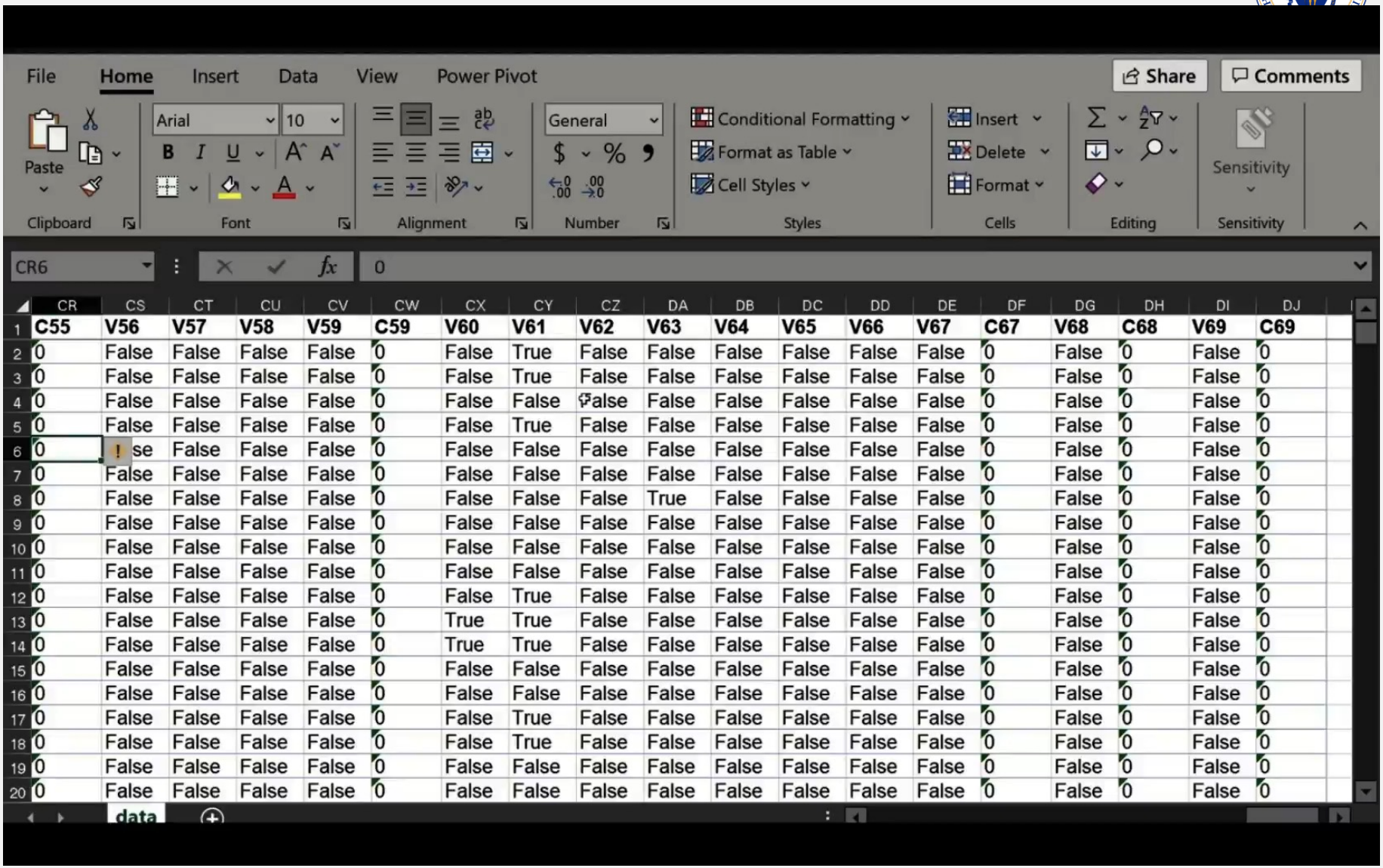
3

3 Source: IDC, 2011 Worldwide Enterprise Storage Systems 2011–2015 Forecast Update. Worldwide Enterprise Storage Consumption Capacity Shipped by Model, 2006–2015 (PB)

Step 1 – Lets start small with:

- **Some raw data (yours)**
- **Excel 2010 or later**
- **Excel add-ins**
  - Power Query, Power Pivot, Power Map





	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ
1	C55	V56	V57	V58	V59	C59	V60	V61	V62	V63	V64	V65	V66	V67	C67	V68	C68	V69	C69
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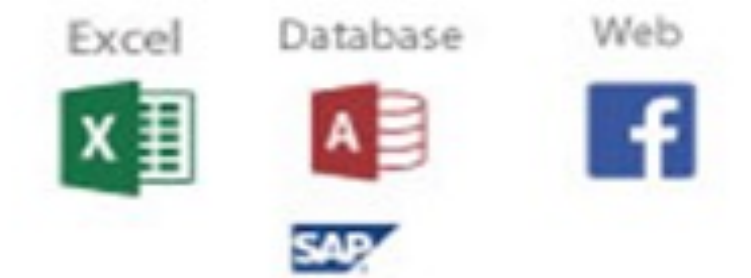
3	0	False	False	False	False	0	False	True	False	False	False	False	False	False	0	False	0	False	0
4	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
5	0	False	False	False	False	0	False	True	False	False	False	False	False	False	0	False	0	False	0
6	0	se	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
7	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
8	0	False	False	False	False	0	False	False	False	True	False	False	False	False	0	False	0	False	0
9	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
10	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
11	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
12	0	False	False	False	False	0	False	True	False	False	False	False	False	False	0	False	0	False	0
13	0	False	False	False	False	0	True	True	False	False	False	False	False	False	0	False	0	False	0
14	0	False	False	False	False	0	True	True	False	False	False	False	False	False	0	False	0	False	0
15	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
16	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
17	0	False	False	False	False	0	False	True	False	False	False	False	False	False	0	False	0	False	0
18	0	False	False	False	False	0	False	True	False	False	False	False	False	False	0	False	0	False	0
19	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0
20	0	False	False	False	False	0	False	False	False	False	False	False	False	False	0	False	0	False	0



Client Name	Country	Remarks
Titan Industries Ltd.	India	Accepted
The Mysore Paper Mills Ltd	India	Under Processing
Mail SeaNav Pvt. Ltd.	India	Under Processing
A.J. Finance Pvt Ltd	India	Accepted
Bokahola Tea Co Pvt Ltd	India	Rejected

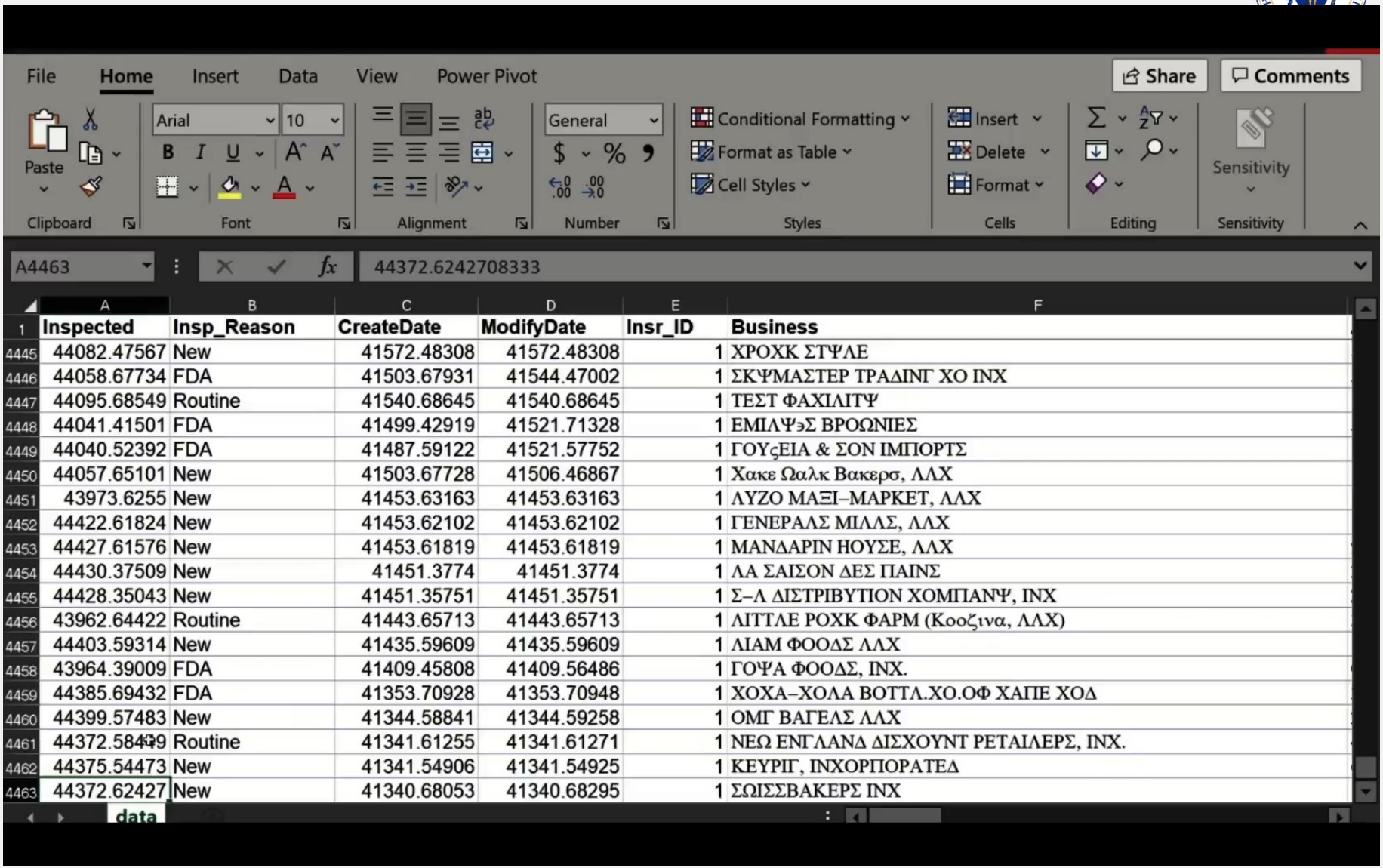
Links about Power Tools:

"How to use Power Pivot in Excel" by Kevin Stratvert

"Power Query vs Power Pivot" by Mynda Treacy

Step 2 – Covert data to an Excel table

- A rectangular range of data which is defined and named in a particular way.
- The table structure makes it easier to write, read, and maintain formulas.



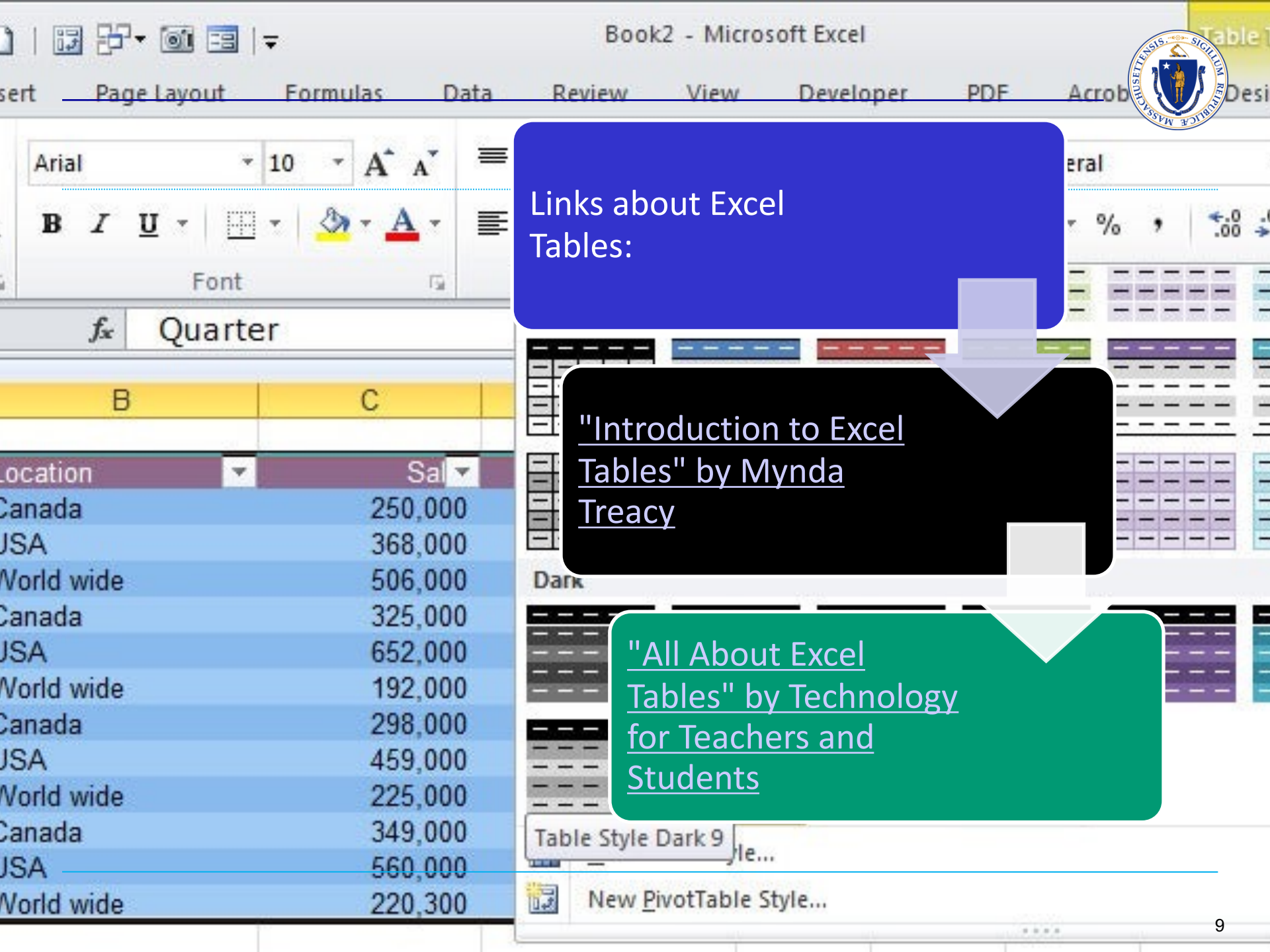
File Home Insert Data View Power Pivot Share Comments

Paste Clipboard Arial 10 Font Alignment General Number Conditional Formatting Format as Table Cell Styles Styles Insert Delete Format Cells Editing Sensitivity Sensitivity

A4463 44372.6242708333

	A	B	C	D	E	F
1	Inspected	Insp_Reason	CreateDate	ModifyDate	Insr_ID	Business
4445	44082.47567	New	41572.48308	41572.48308	1	ΧΡΟΧΚ ΣΤΨΛΕ
4446	44058.67734	FDA	41503.67931	41544.47002	1	ΣΚΨΜΑΣΤΕΡ ΤΡΑΔΙΝΓ ΧΟ ΙΝΧ
4447	44095.68549	Routine	41540.68645	41540.68645	1	ΤΕΣΤ ΦΑΧΙΛΙΤΨ
4448	44041.41501	FDA	41499.42919	41521.71328	1	ΕΜΙΛΨэΣ ΒΡΟΩΝΙΕΣ
4449	44040.52392	FDA	41487.59122	41521.57752	1	ΓΟΥçΕΙΑ & ΣΟΝ ΙΜΠΟΡΤΣ
4450	44057.65101	New	41503.67728	41506.46867	1	Χακε Ωαλκ Βακερσ, ΛΛΧ
4451	43973.6255	New	41453.63163	41453.63163	1	ΛΥΖΟ ΜΑΞΙ–ΜΑΡΚΕΤ, ΛΛΧ
4452	44422.61824	New	41453.62102	41453.62102	1	ΓΕΝΕΡΑΛΣ ΜΙΛΛΣ, ΛΛΧ
4453	44427.61576	New	41453.61819	41453.61819	1	ΜΑΝΔΑΡΙΝ ΗΟΥΣΕ, ΛΛΧ
4454	44430.37509	New	41451.3774	41451.3774	1	ΛΑ ΣΑΙΣΟΝ ΔΕΣ ΠΑΙΝΣ
4455	44428.35043	New	41451.35751	41451.35751	1	Σ–Λ ΔΙΣΤΡΙΒΥΤΙΟΝ ΧΟΜΠΑΝΨ, ΙΝΧ
4456	43962.64422	Routine	41443.65713	41443.65713	1	ΛΙΤΤΛΕ ΡΟΧΚ ΦΑΡΜ (Κοοζινα, ΛΛΧ)
4457	44403.59314	New	41435.59609	41435.59609	1	ΛΙΑΜ ΦΟΟΔΣ ΛΛΧ
4458	43964.39009	FDA	41409.45808	41409.56486	1	ΓΟΨΑ ΦΟΟΔΣ, ΙΝΧ.
4459	44385.69432	FDA	41353.70928	41353.70948	1	ΧΟΧΑ–ΧΟΛΑ ΒΟΤΤΛ.ΧΟ.ΟΦ ΧΑΠΕ ΧΟΔ
4460	44399.57483	New	41344.58841	41344.59258	1	ΟΜΓ ΒΑΓΕΛΣ ΛΛΧ
4461	44372.58429	Routine	41341.61255	41341.61271	1	ΝΕΩ ΕΝΓΛΑΝΔ ΔΙΣΧΟΥΝΤ ΡΕΤΑΙΛΕΡΣ, ΙΝΧ.
4462	44375.54473	New	41341.54906	41341.54925	1	ΚΕΥΡΙΓ, ΙΝΧΟΡΠΟΡΑΤΕΔ
4463	44372.62427	New	41340.68053	41340.68295	1	ΣΩΙΣΣΒΑΚΕΡΣ ΙΝΧ

data


Book2 - Microsoft Excel
Page Layout
Formulas
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Arial
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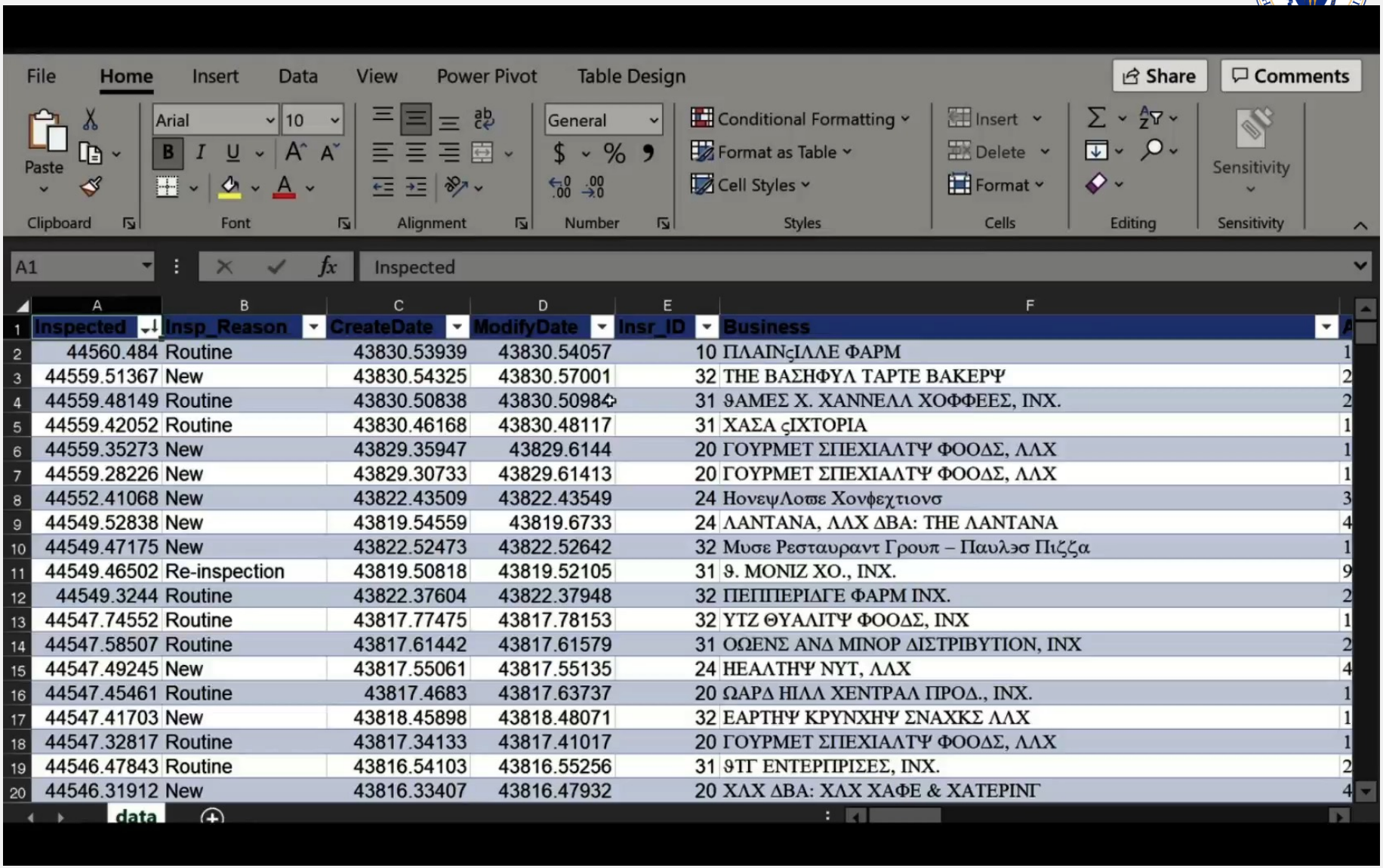
Location
Sal
Canada 250,000
USA 368,000
World wide 506,000
Canada 325,000
USA 652,000
World wide 192,000
Canada 298,000
USA 459,000
World wide 225,000
Canada 349,000
USA 560,000
World wide 220,300
Links about Excel Tables:
"Introduction to Excel Tables" by Mynda Treacy
"All About Excel Tables" by Technology for Teachers and Students
Dark
Table Style Dark 9
New PivotTable Style...

Step 3 – Load Table into Power Query

- Can import or connect different types of external data
- Can shape data in ways that meet your needs



File Home Insert Data View Power Pivot Table Design Share Comments

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Clipboard Font Alignment Number Styles Cells Editing Sensitivity

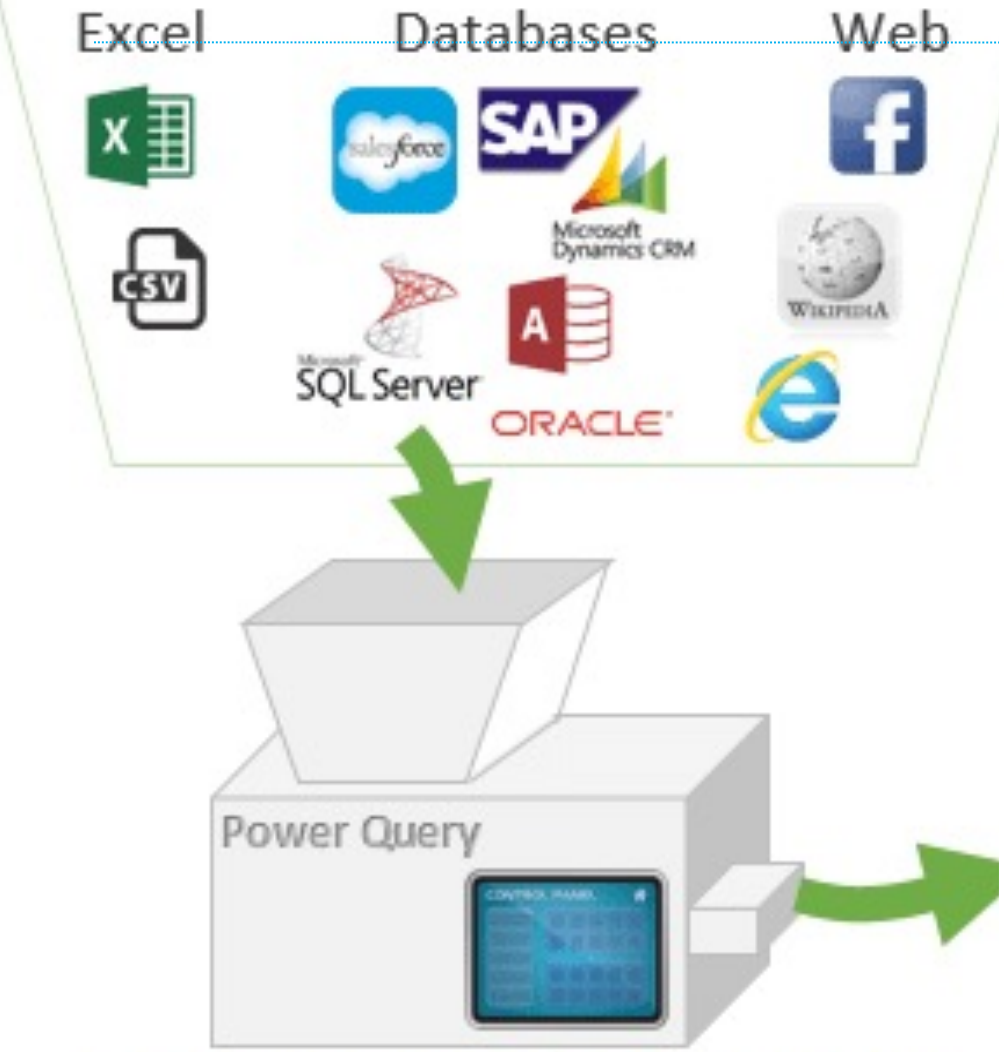
A1 Inspected

	A	B	C	D	E	F
1	Inspected	Insp_Reason	CreateDate	ModifyDate	Insr_ID	Business
2	44560.484	Routine	43830.53939	43830.54057	10	ΠΛΑΙΝçΙΛΛΕ ΦΑΡΜ
3	44559.51367	New	43830.54325	43830.57001	32	ΤΗΕ ΒΑΣΗΦΥΛ ΤΑΡΤΕ ΒΑΚΕΡΨ
4	44559.48149	Routine	43830.50838	43830.5098	31	ϑΑΜΕΣ Χ. ΧΑΝΝΕΛΛ ΧΟΦΦΕΕΣ, ΙΝΧ.
5	44559.42052	Routine	43830.46168	43830.48117	31	ΧΑΣΑ çΙΧΤΟΡΙΑ
6	44559.35273	New	43829.35947	43829.6144	20	ΓΟΥΡΜΕΤ ΣΠΕΧΙΑΛΤΨ ΦΟΟΔΣ, ΛΛΧ
7	44559.28226	New	43829.30733	43829.61413	20	ΓΟΥΡΜΕΤ ΣΠΕΧΙΑΛΤΨ ΦΟΟΔΣ, ΛΛΧ
8	44552.41068	New	43822.43509	43822.43549	24	ΗονεψΛοωε Χονφεχτιονσ
9	44549.52838	New	43819.54559	43819.6733	24	ΛΑΝΤΑΝΑ, ΛΛΧ ΔΒΑ: ΤΗΕ ΛΑΝΤΑΝΑ
10	44549.47175	New	43822.52473	43822.52642	32	Μυσε Ρεσταυραντ Γρουπ – Παυλǝσ Πιζζα
11	44549.46502	Re-inspection	43819.50818	43819.52105	31	ϑ. ΜΟΝΙΖ ΧΟ., ΙΝΧ.
12	44549.3244	Routine	43822.37604	43822.37948	32	ΠΕΠΠΕΡΙΔΓΕ ΦΑΡΜ ΙΝΧ.
13	44547.74552	Routine	43817.77475	43817.78153	32	ΥΤΖ ΘΥΑΛΙΤΨ ΦΟΟΔΣ, ΙΝΧ
14	44547.58507	Routine	43817.61442	43817.61579	31	ΟΩΕΝΣ ΑΝΔ ΜΙΝΟΡ ΔΙΣΤΡΙΒΥΤΙΟΝ, ΙΝΧ
15	44547.49245	New	43817.55061	43817.55135	24	ΗΕΑΛΤΗΨ ΝΥΤ, ΛΛΧ
16	44547.45461	Routine	43817.4683	43817.63737	20	ΩΑΡΔ ΗΙΛΛ ΧΕΝΤΡΑΛ ΠΡΟΔ., ΙΝΧ.
17	44547.41703	New	43818.45898	43818.48071	32	ΕΑΡΤΗΨ ΚΡΥΝΧΗΨ ΣΝΑΧΚΣ ΛΛΧ
18	44547.32817	Routine	43817.34133	43817.41017	20	ΓΟΥΡΜΕΤ ΣΠΕΧΙΑΛΤΨ ΦΟΟΔΣ, ΛΛΧ
19	44546.47843	Routine	43816.54103	43816.55256	31	ϑΤΓ ΕΝΤΕΡΠΡΙΣΕΣ, ΙΝΧ.
20	44546.31912	New	43816.33407	43816.47932	20	ΧΛΧ ΔΒΑ: ΧΛΧ ΧΑΦΕ & ΧΑΤΕΡΙΝΓ

data

ower Query Transforms Your Data

1. Add data from almost any source



Links about Power Query:

"Beginner's Guide to Excel Get & Transform / Power Query" by Technology for Teachers and Students

"How to easily automate boring Excel tasks with Power Query!" by Mynda Treacy

	A	B	C
			Amount
			192.375
			285.75
			38.25
			200.25
			221.625
			349.875
			165.375
9	Product A	Aug-14	499.5
10	Product A	Sep-14	40.5
11	Product A	Oct-14	259.875
12	Product A	Nov-14	343.125

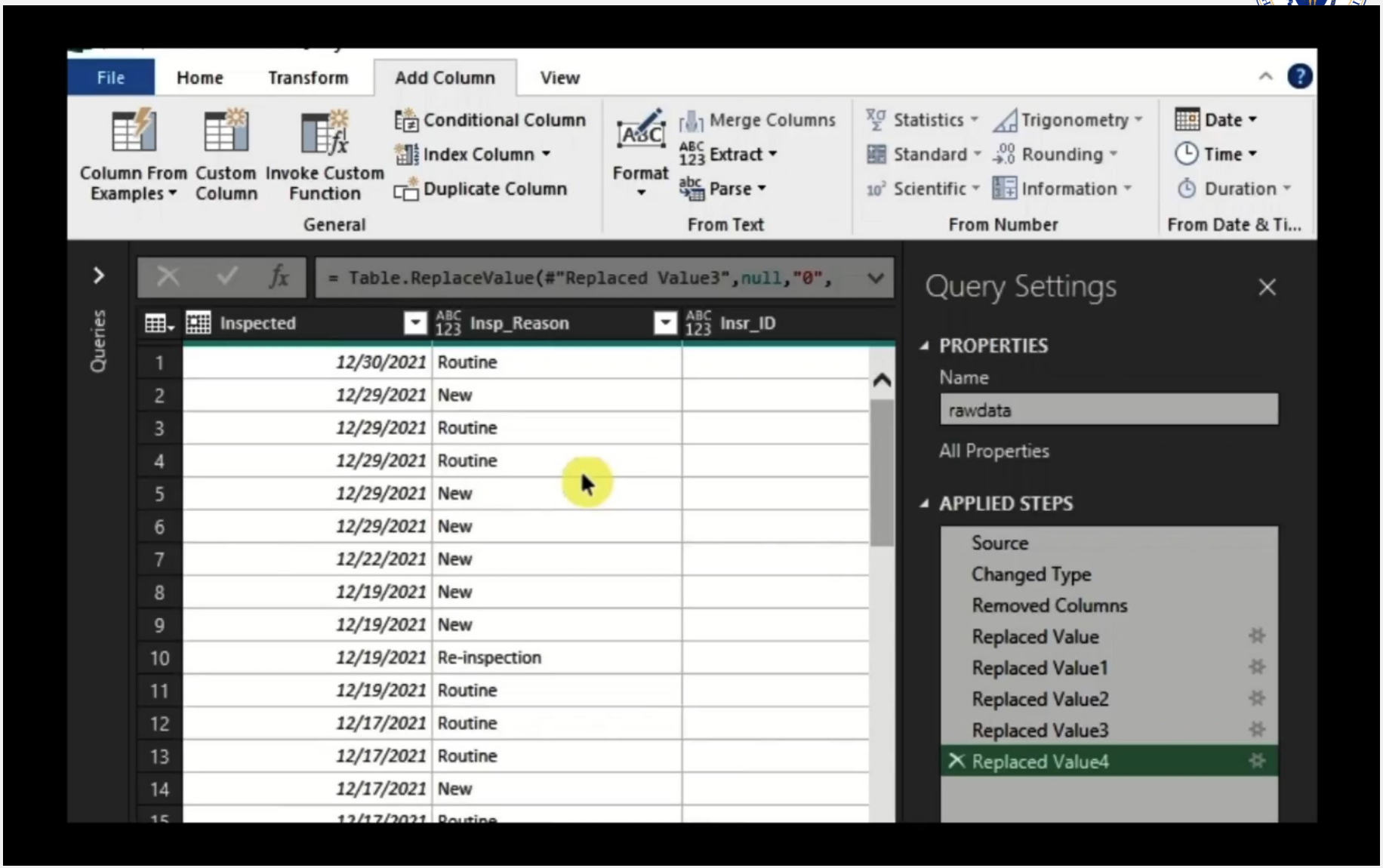
2. Transform it with Power Query

Step 4 – Use Power Query to get total debits for each inspection

Score “1” for each violation

Score “0” for each non-violation

Total score = total debits


File
Home
Transform
Add Column
View
Column From Examples
Custom Column
Invoke Custom Function
Conditional Column
Index Column
Duplicate Column
General
Format
Merge Columns
Extract
Parse
From Text
Statistics
Trigonometry
Standard
Rounding
Scientific
Information
From Number
Date
Time
Duration
From Date & Ti...
Queries
= Table.ReplaceValue(#"Replaced Value3",null,"0",
Inspected
Insp_Reason
Insr_ID
1 12/30/2021 Routine
2 12/29/2021 New
3 12/29/2021 Routine
4 12/29/2021 Routine
5 12/29/2021 New
6 12/29/2021 New
7 12/22/2021 New
8 12/19/2021 New
9 12/19/2021 New
10 12/19/2021 Re-inspection
11 12/19/2021 Routine
12 12/17/2021 Routine
13 12/17/2021 Routine
14 12/17/2021 New
Query Settings
PROPERTIES
Name
rawdata
All Properties
APPLIED STEPS
Source
Changed Type
Removed Columns
Replaced Value
Replaced Value1
Replaced Value2
Replaced Value3
Replaced Value4

TO REPLACE VALUES IN EXCEL POW Q

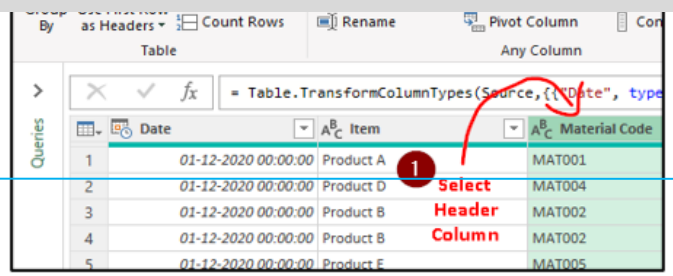
ows information about units sold by sales officers in spective regions during December 2020.

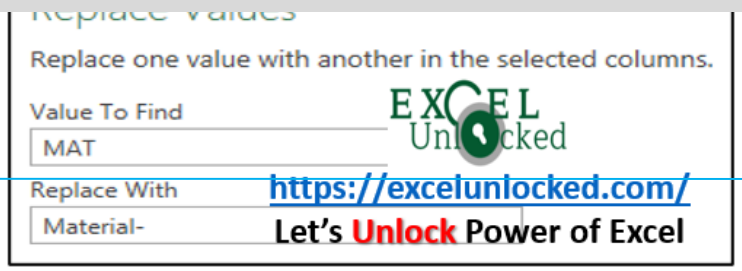
#1 IMPORT DATA FROM TABLE TO POW

> Get &

Links about Replacing Values:

- "Correctly Sum Two Or More Columns" by Maxim Zelensky
- "Replace values and errors" by Miguel Escobar

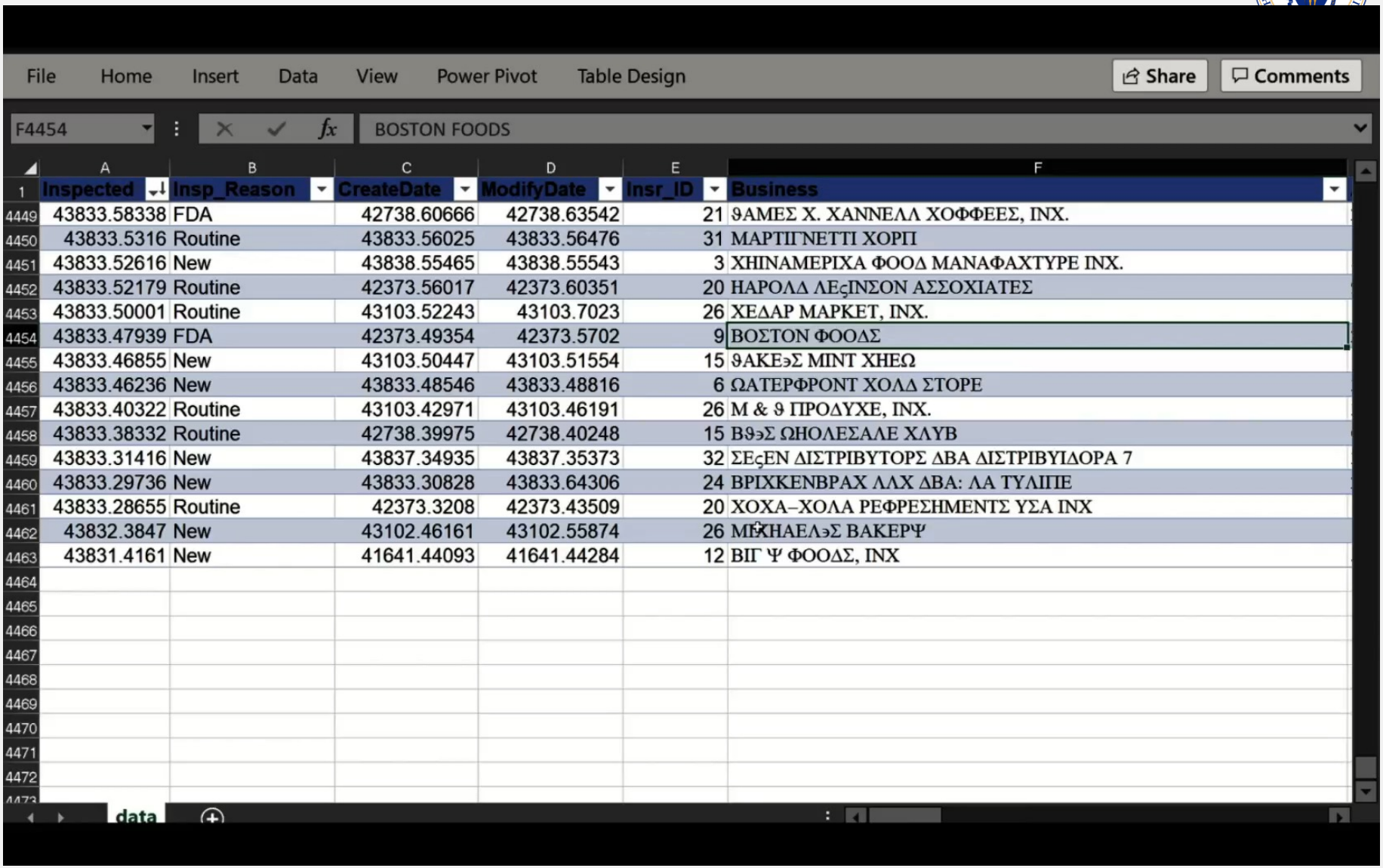




Step 5 – Use Power Pivot to get each firm's average debits per inspection (DPI)

Combine all inspections for each firm

Each firm's total debits divided by its total inspections = average DPI

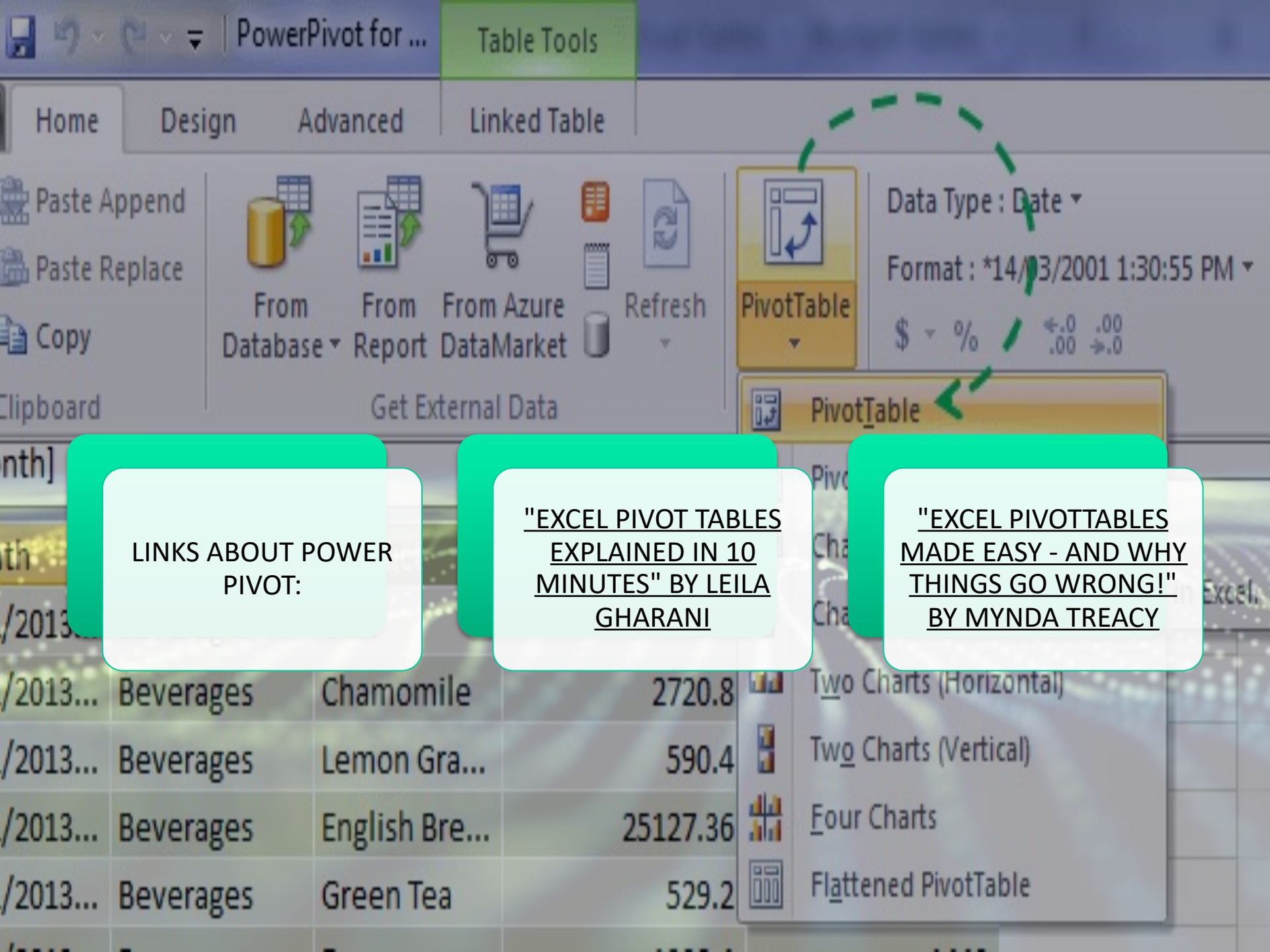


File Home Insert Data View Power Pivot Table Design Share Comments

F4454 BOSTON FOODS

	A	B	C	D	E	F
1	Inspected	Insp_Reason	CreateDate	ModifyDate	Insr_ID	Business
4449	43833.58338	FDA	42738.60666	42738.63542	21	ϑAMEΣ X. XANNEΛΛ XOΦΦEEΣ, INX.
4450	43833.5316	Routine	43833.56025	43833.56476	31	MAPTIΓNETTI XOPΠ
4451	43833.52616	New	43838.55465	43838.55543	3	XHINAMEPIXA ΦOOΔ MANAΦAXTYPE INX.
4452	43833.52179	Routine	42373.56017	42373.60351	20	HAPOΛΔ ΛEçINΣON AΣΣOXIATEΣ
4453	43833.50001	Routine	43103.52243	43103.7023	26	XEΔAP MAPKET, INX.
4454	43833.47939	FDA	42373.49354	42373.5702	9	BOΣTON ΦOOΔΣ
4455	43833.46855	New	43103.50447	43103.51554	15	ϑAKEəΣ MINT XHEΩ
4456	43833.46236	New	43833.48546	43833.48816	6	ΩATEPΦPONT XOΛΔ ΣTOPE
4457	43833.40322	Routine	43103.42971	43103.46191	26	M & ϑ ΠPOΔYXE, INX.
4458	43833.38332	Routine	42738.39975	42738.40248	15	BϑəΣ ΩHOΛEΣAΛE XΛYB
4459	43833.31416	New	43837.34935	43837.35373	32	ΣEçEN ΔIΣTPIBYTOPΣ ΔBA ΔIΣTPIBYIΔOPA 7
4460	43833.29736	New	43833.30828	43833.64306	24	BPIXKENBPAX ΛΛX ΔBA: ΛA TYΛIΠE
4461	43833.28655	Routine	42373.3208	42373.43509	20	XOXA–XOΛA PEΦPESHMENTΣ YΣA INX
4462	43832.3847	New	43102.46161	43102.55874	26	MEXHAEΛəΣ BAKEPΨ
4463	43831.4161	New	41641.44093	41641.44284	12	BIΓ Ψ ΦOOΔΣ, INX
4464						
4465						
4466						
4467						
4468						
4469						
4470						
4471						
4472						

data

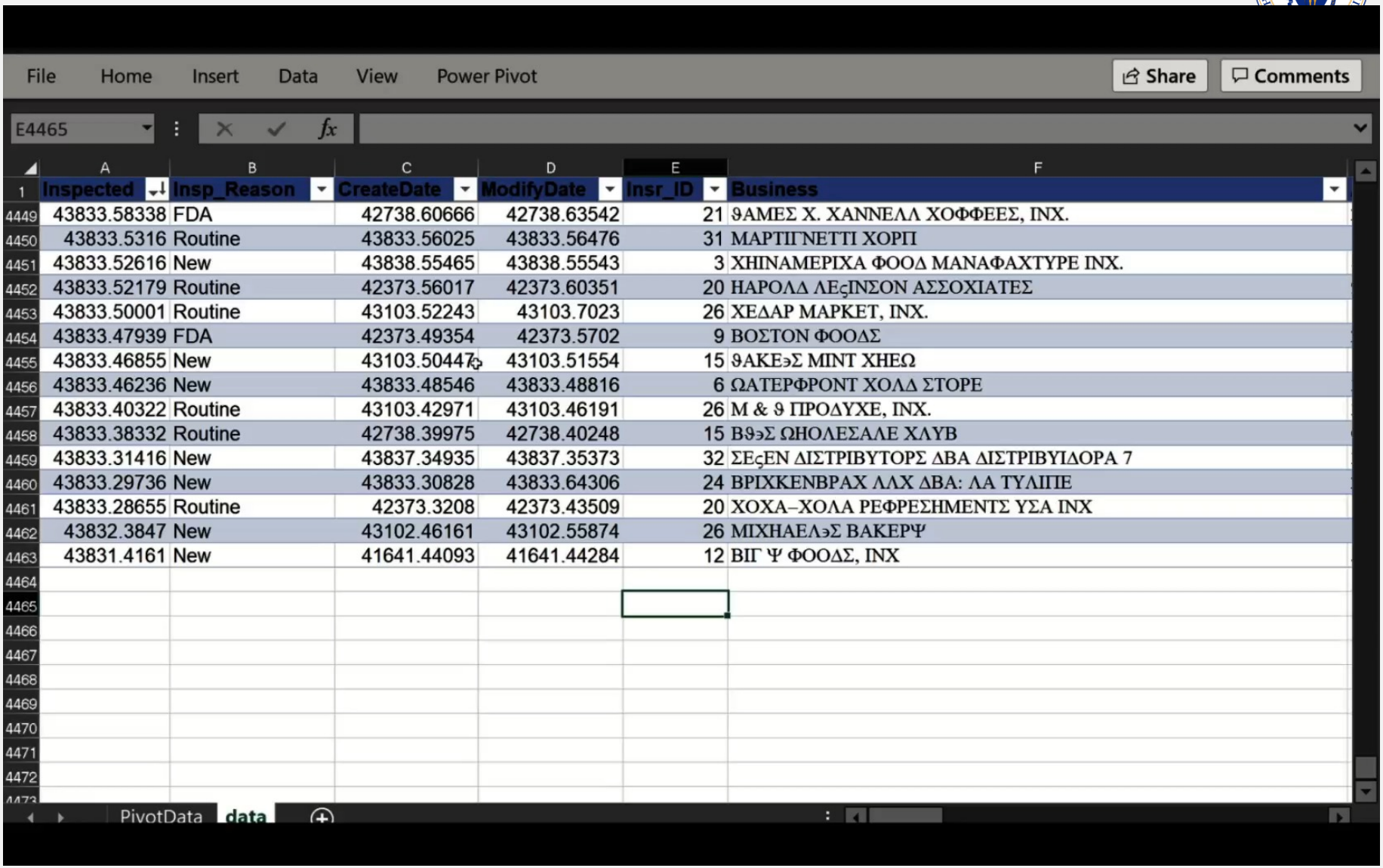

PowerPivot for ...
Table Tools
Home
Design
Advanced
Linked Table
Paste Append
Paste Replace
Copy
Clipboard
From Database
From Report
From Azure DataMarket
Refresh
Get External Data
PivotTable
Data Type : Date
Format : *14/03/2001 1:30:55 PM
PivotTable
Two Charts (Horizontal)
Two Charts (Vertical)
Four Charts
Flattened PivotTable
LINKS ABOUT POWER PIVOT:
"EXCEL PIVOT TABLES EXPLAINED IN 10 MINUTES" BY LEILA GHARANI
"EXCEL PIVOTTABLES MADE EASY - AND WHY THINGS GO WRONG!" BY MYNDA TREACY
/2013... Beverages Chamomile 2720.8
/2013... Beverages Lemon Gra... 590.4
/2013... Beverages English Bre... 25127.36
/2013... Beverages Green Tea 529.2

Step 6 – Rank order DPIs for all firms

PERCENTRANK function

Highest DPI = 1

Lowest DPI = 0



	A	B	C	D	E	F
1	Inspected	Insp_Reason	CreateDate	ModifyDate	Insr_ID	Business
4449	43833.58338	FDA	42738.60666	42738.63542	21	ϑAMΕΣ Χ. ΧΑΝΝΕΛΛ ΧΟΦΦΕΕΣ, ΙΝΧ.
4450	43833.5316	Routine	43833.56025	43833.56476	31	ΜΑΡΤΙΓΝΕΤΤΙ ΧΟΡΠ
4451	43833.52616	New	43838.55465	43838.55543	3	ΧΗΙΝΑΜΕΡΙΧΑ ΦΟΟΔ ΜΑΝΑΦΑΧΤΥΡΕ ΙΝΧ.
4452	43833.52179	Routine	42373.56017	42373.60351	20	ΗΑΡΟΛΔ ΛΕçΙΝΣΟΝ ΑΣΣΟΧΙΑΤΕΣ
4453	43833.50001	Routine	43103.52243	43103.7023	26	ΧΕΔΑΡ ΜΑΡΚΕΤ, ΙΝΧ.
4454	43833.47939	FDA	42373.49354	42373.5702	9	ΒΟΣΤΟΝ ΦΟΟΔΣ
4455	43833.46855	New	43103.50447	43103.51554	15	ϑΑΚΕəΣ ΜΙΝΤ ΧΗΕΩ
4456	43833.46236	New	43833.48546	43833.48816	6	ΩΑΤΕΡΦΡΟΝΤ ΧΟΛΔ ΣΤΟΡΕ
4457	43833.40322	Routine	43103.42971	43103.46191	26	Μ & ϑ ΠΡΟΔΥΧΕ, ΙΝΧ.
4458	43833.38332	Routine	42738.39975	42738.40248	15	Βϑə̈Σ ΩΗΟΛΕΣΑΛΕ ΧΛΥΒ
4459	43833.31416	New	43837.34935	43837.35373	32	ΣΕçΕΝ ΔΙΣΤΡΙΒΥΤΟΡΣ ΔΒΑ ΔΙΣΤΡΙΒΥΙΔΟΡΑ 7
4460	43833.29736	New	43833.30828	43833.64306	24	ΒΡΙΧΚΕΝΒΡΑΧ ΛΛΧ ΔΒΑ: ΛΑ ΤΥΛΙΠΕ
4461	43833.28655	Routine	42373.3208	42373.43509	20	ΧΟΧΑ–ΧΟΛΑ ΡΕΦΡΕΣΗΜΕΝΤΣ ΥΣΑ ΙΝΧ
4462	43832.3847	New	43102.46161	43102.55874	26	ΜΙΧΗΑΕΛəΣ ΒΑΚΕΡΨ
4463	43831.4161	New	41641.44093	41641.44284	12	ΒΙΓ Ψ ΦΟΟΔΣ, ΙΝΧ
4464						
4465						
4466						
4467						
4468						
4469						
4470						
4471						
4472						

Excel PERCENTRANK

=PERCENTRANK($A$2:$A$11,A2)

Links about Percentrank:

- "Use the PERCENTRANK Function" by Doug H
- "How to use the PERCENTILE and PERCENTRANK functions" by Prof. Essa

B2,2)

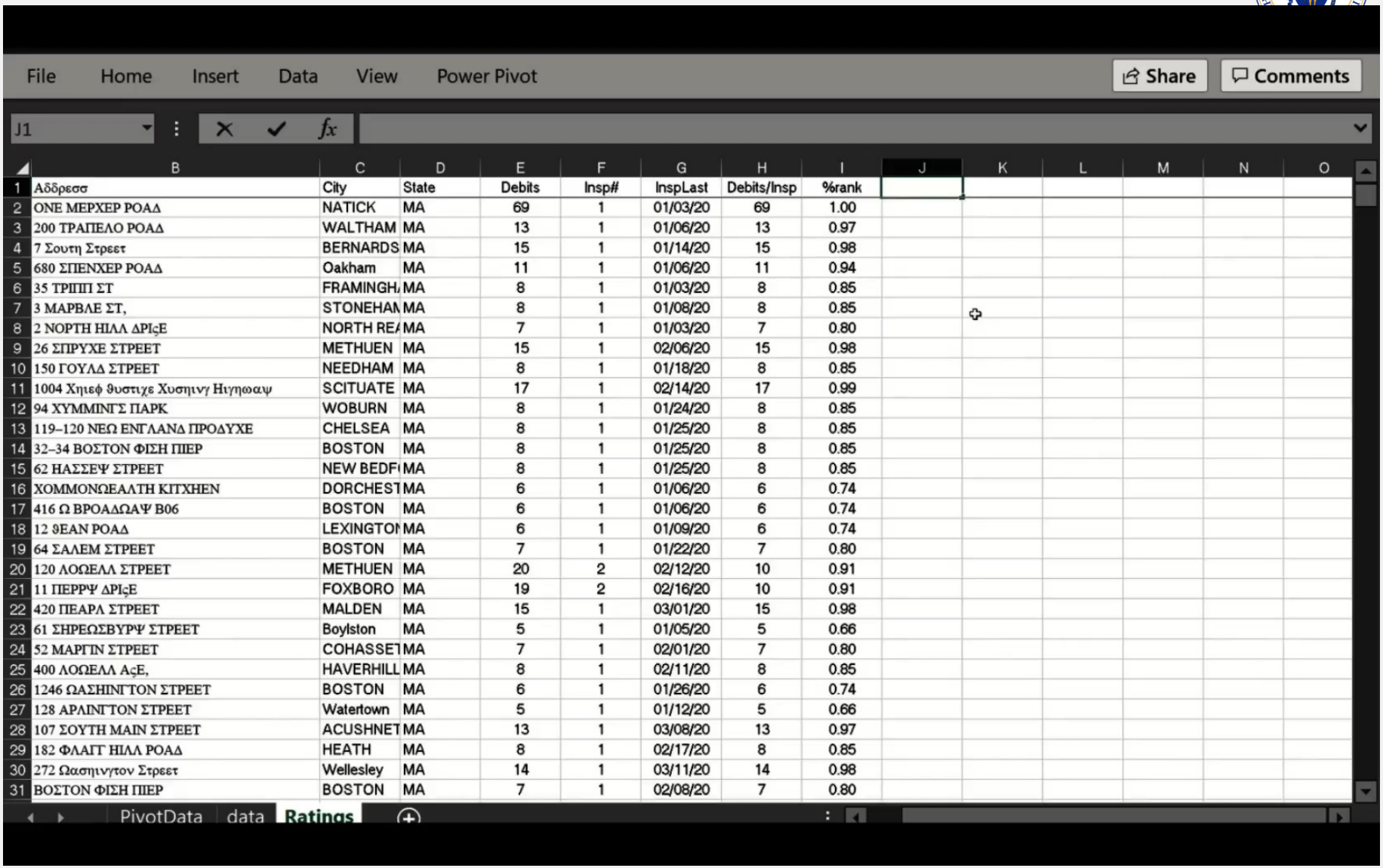
	A	B	C	D	E	F
1	Students	Marks	Rank			
2	Raj	555	88.00%			
3	Ram	377	33.00%			

Step 7 – Use ranked DPI to schedule next inspection

Every 6 months for highest DPIs

Every 12 months for lowest DPIs

6-12 months of in-between DPIs



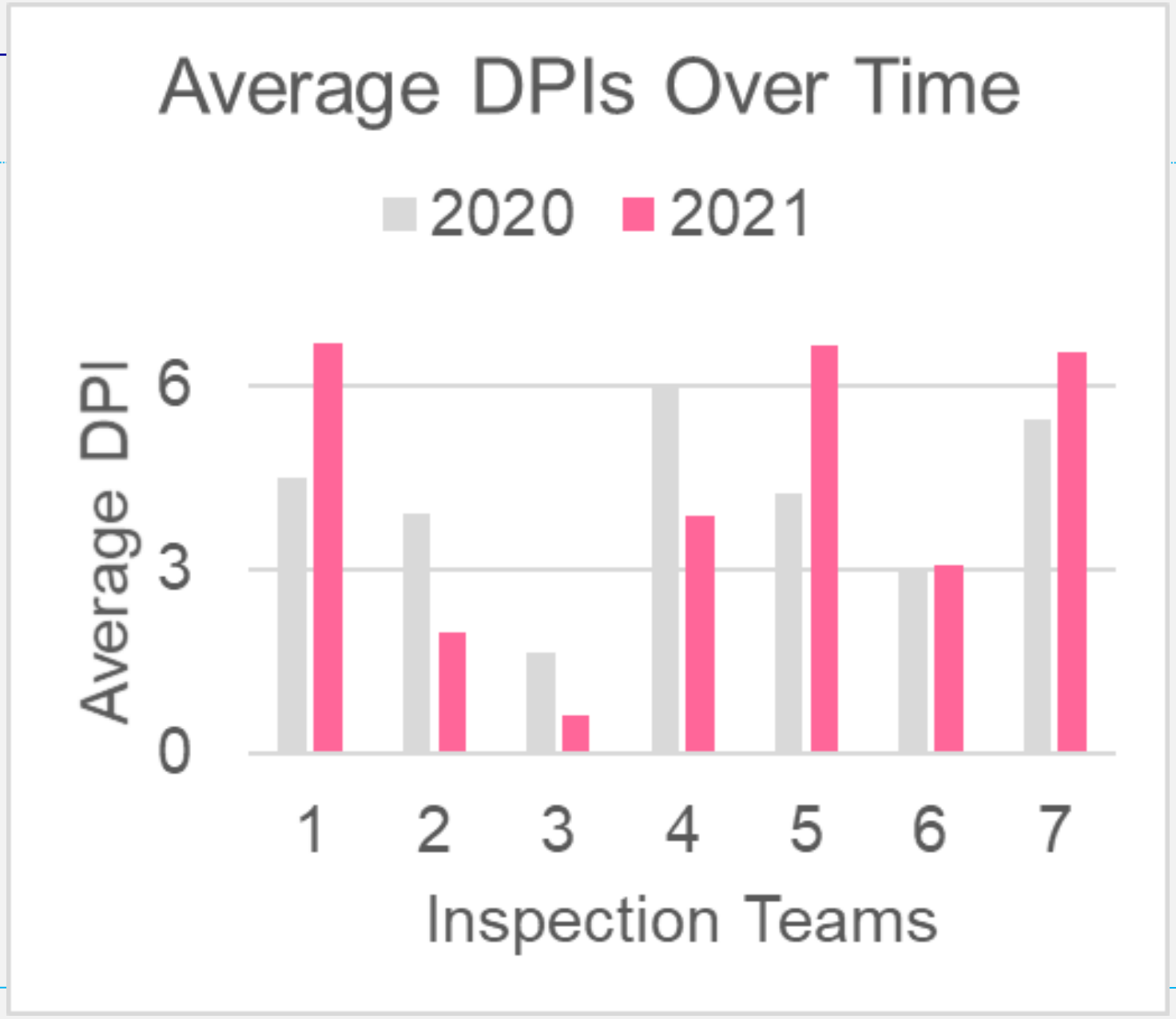
File Home Insert Data View Power Pivot Share Comments

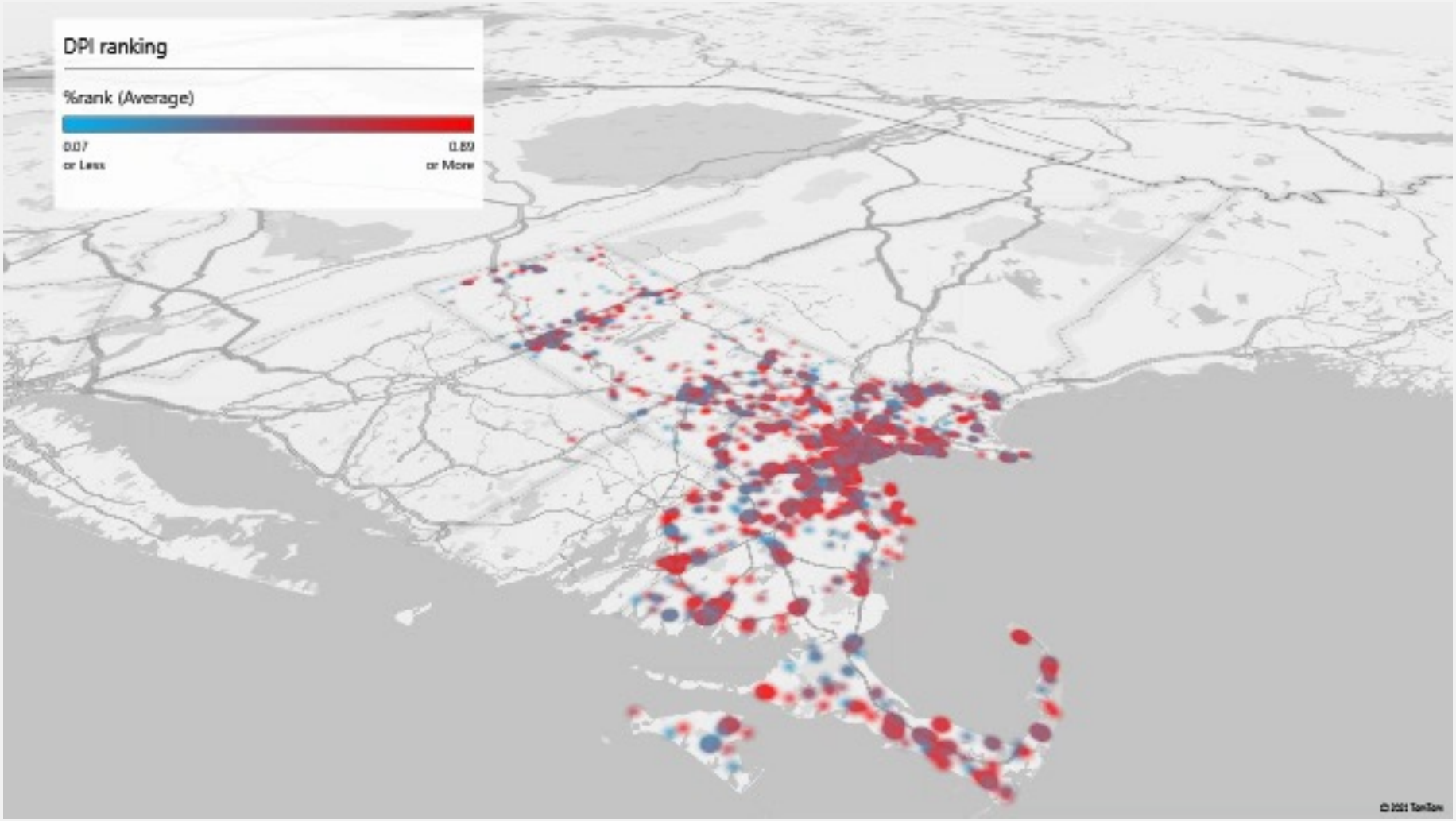
J1

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Αδδρεσσ	City	State	Debits	Insp#	InspLast	Debits/Insp	%rank						
2	ONE ΜΕΡΧΕΡ ΡΟΑΔ	NATICK	MA	69	1	01/03/20	69	1.00						
3	200 ΤΡΑΠΕΛΟ ΡΟΑΔ	WALTHAM	MA	13	1	01/06/20	13	0.97						
4	7 Σουτη Στρεετ	BERNARDS	MA	15	1	01/14/20	15	0.98						
5	680 ΣΠΕΝΧΕΡ ΡΟΑΔ	Oakham	MA	11	1	01/06/20	11	0.94						
6	35 ΤΡΙΠΠ ΣΤ	FRAMINGH/	MA	8	1	01/03/20	8	0.85						
7	3 ΜΑΡΒΛΕ ΣΤ,	STONEHAM	MA	8	1	01/08/20	8	0.85						
8	2 ΝΟΡΤΗ ΗΙΛΛ ΔΡΙçΕ	NORTH REA	MA	7	1	01/03/20	7	0.80						
9	26 ΣΠΡΥΧΕ ΣΤΡΕΕΤ	METHUEN	MA	15	1	02/06/20	15	0.98						
10	150 ΓΟΥΛΔ ΣΤΡΕΕΤ	NEEDHAM	MA	8	1	01/18/20	8	0.85						
11	1004 Χηιεφ θυστιχε Χυσηινγ Ηιγηωαψ	SCITUATE	MA	17	1	02/14/20	17	0.99						
12	94 ΧΥΜΜΙΝΓΣ ΠΑΡΚ	WOBURN	MA	8	1	01/24/20	8	0.85						
13	119–120 ΝΕΩ ΕΝΓΛΑΝΔ ΠΡΟΔΥΧΕ	CHELSEA	MA	8	1	01/25/20	8	0.85						
14	32–34 ΒΟΣΤΟΝ ΦΙΣΗ ΠΙΕΡ	BOSTON	MA	8	1	01/25/20	8	0.85						
15	62 ΗΑΣΣΕΨ ΣΤΡΕΕΤ	NEW BEDF	MA	8	1	01/25/20	8	0.85						
16	ΧΟΜΜΟΝΩΕΑΛΤΗ ΚΙΤΧΗΕΝ	DORCHEST	MA	6	1	01/06/20	6	0.74						
17	416 Ω ΒΡΟΑΔΩΑΨ Β06	BOSTON	MA	6	1	01/06/20	6	0.74						
18	12 ϑΕΑΝ ΡΟΑΔ	LEXINGTOI	MA	6	1	01/09/20	6	0.74						
19	64 ΣΑΛΕΜ ΣΤΡΕΕΤ	BOSTON	MA	7	1	01/22/20	7	0.80						
20	120 ΛΟΩΕΛΛ ΣΤΡΕΕΤ	METHUEN	MA	20	2	02/12/20	10	0.91						
21	11 ΠΕΡΡΨ ΔΡΙçΕ	FOXBORO	MA	19	2	02/16/20	10	0.91						
22	420 ΠΕΑΡΛ ΣΤΡΕΕΤ	MALDEN	MA	15	1	03/01/20	15	0.98						
23	61 ΣΗΡΕΩΣΒΥΡΨ ΣΤΡΕΕΤ	Boylston	MA	5	1	01/05/20	5	0.66						
24	52 ΜΑΡΓΙΝ ΣΤΡΕΕΤ	COHASSET	MA	7	1	02/01/20	7	0.80						
25	400 ΛΟΩΕΛΛ Aç€,	HAVERHILL	MA	8	1	02/11/20	8	0.85						
26	1246 ΩΑΣΗΙΝΓΤΟΝ ΣΤΡΕΕΤ	BOSTON	MA	6	1	01/26/20	6	0.74						
27	128 ΑΡΛΙΝΓΤΟΝ ΣΤΡΕΕΤ	Watertown	MA	5	1	01/12/20	5	0.66						
28	107 ΣΟΥΤΗ ΜΑΙΝ ΣΤΡΕΕΤ	ACUSHNET	MA	13	1	03/08/20	13	0.97						
29	182 ΦΛΑΙΤ ΗΙΛΛ ΡΟΑΔ	HEATH	MA	8	1	02/17/20	8	0.85						
30	272 Ωασηινγτον Στρεετ	Wellesley	MA	14	1	03/11/20	14	0.98						
31	ΒΟΣΤΟΝ ΦΙΣΗ ΠΙΕΡ	BOSTON	MA	7	1	02/08/20	7	0.80						

PivotData data Ratings

Three-Year Work Plan
(6-month vs 12-month offset)
6 months
12 months
6/1/2023
6/1/2022
6/1/2021
6/1/2020
654
1226
1
1001
2001
3001
Total Inspections


Average DPIs Over Time
2020
2021
Average DPI
6
3
0
1
2
3
4
5
6
7
Inspection Teams


DPI ranking
%rank (Average)
0.07
or Less
0.89
or More