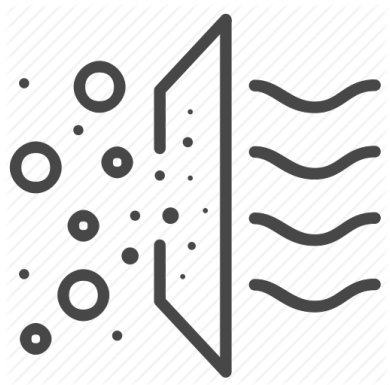
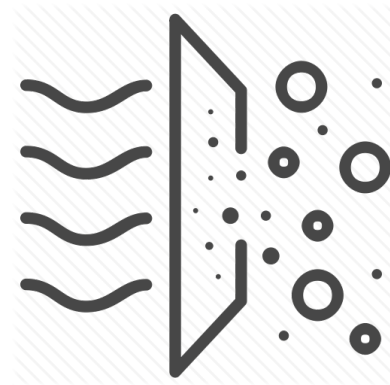


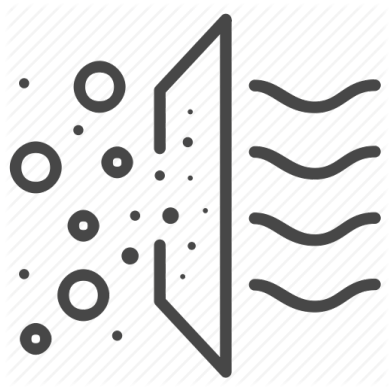
# **PIVOT TABLES**

## **(continued...)**

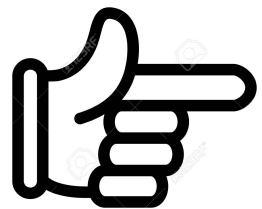
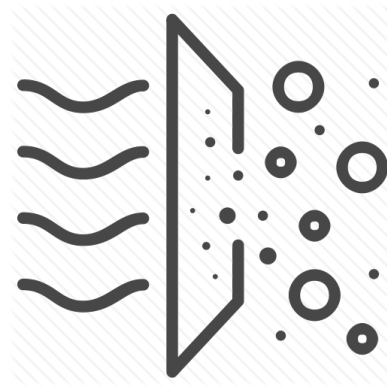


# **FILTERS**





## FILTERS



Open the file:

» **Property portfolio**

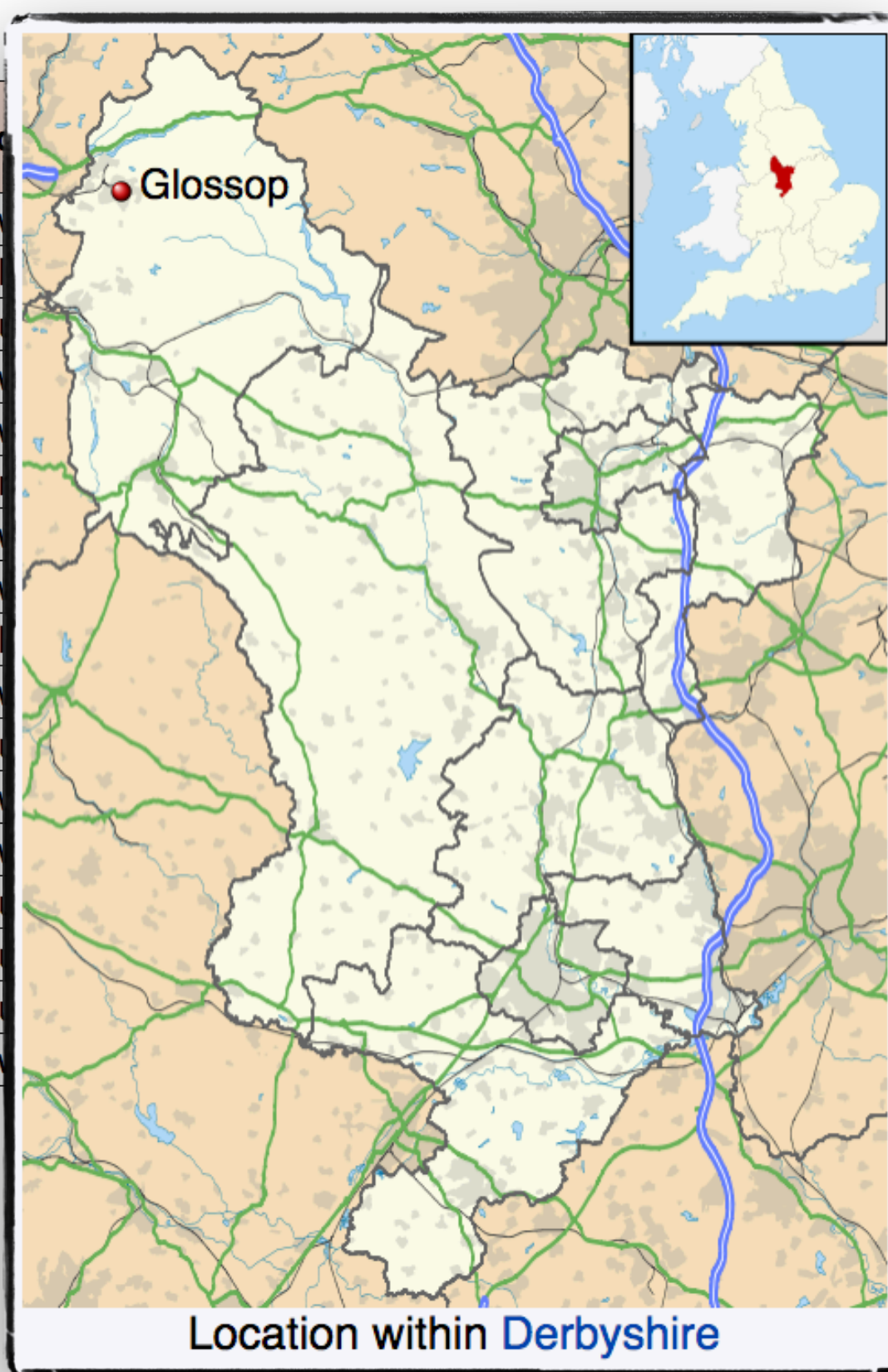


It's a property portfolio dataset (UK)

PostCode	Type	Location	No Bedrooms	No Bathrooms	Reception Rooms	Garden Size	Date on Market	Date Sold	Asking Price	Sale Price
SK13 7AZ	Detatched	Town	4	2	3	Medium	26/11/2017		£345.000	
SK22 9GT	Semi-detatched	Village	3	1	2	Small	18/07/2017	01/02/2018	£245.000	£238.500
SK13 6DD	Terraced	Countryside	2	1	2	Small	24/10/2017	19/12/2017	£199.000	£199.000
SK14 8DS	Detatched	Town	4	2	2	Large	18/10/2018	23/01/2018	£398.000	£387.500
SK13 7CW	Semi-detatched	Town	3	1	2	Medium	29/11/2017	19/12/2018	£329.000	£319.500
SK22 3YT	Detatched	Remote	4	2	3	Large	13/10/2017		£478.500	
SK13 4DF	Terraced	Town	2	1	2	Small	05/09/2017	16/01/2017	£213.000	£199.500
SK14 7AD	Semi-detatched	Town	3	2	2	Medium	29/10/2017	18/02/2018	£278.500	£277.000
SK13 2AA	Semi-detatched	Village	3	1	2	Large	11/08/2017		£278.500	
SK13 5YY	Terraced	Town	3	2	1	Small	30/10/2017	29/01/2018	£176.500	£174.300
SK14 9FT	Bungalow	Countryside	2	2	2	Medium	16/11/2017	13/01/2018	£223.750	£219.750
SK23 4RF	Flat	Town	1	1	1	None	15/11/2017		£135.000	
SK13 1GG	Terraced	Town	3	1	2	Small	05/01/2018	19/01/2018	£165.900	£168.000
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Town	2	2	2	Medium	11/09/2017		£199.500	



PostCode	Type	Location
SK13 7AZ		
SK22 9GT	Semi-detached	Village
SK13 6DD	Terraced	Country
SK14 8DS	Detached	Town
SK13 7CW	Semi-detached	Town
SK22 3YT	Detached	Residential
SK13 4DF	Terraced	Town
SK14 7AD	Semi-detached	Town
SK13 2AA	Semi-detached	Village
SK13 5YY	Terraced	Town
SK14 9FT	Bungalow	Country
SK23 4RF	Flat	Town
SK13 1GG	Terraced	Town
SK13 6YH	Bungalow	Country
SK13 6YH	Bungalow	Country
SK13 6YH	Bungalow	Country
SK13 6YH	Bungalow	Town



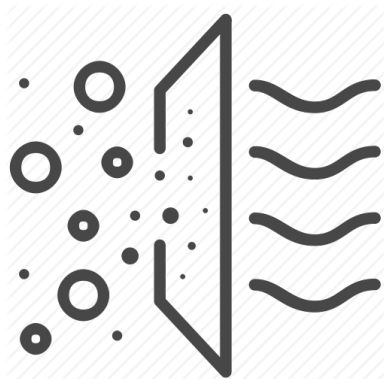
en	Date on Market	Date Sold	Asking Price	Sale Price
um	26/11/2017		£345.000	
ll	18/07/2017	01/02/2018	£245.000	£238.500
ll	24/10/2017	19/12/2017	£199.000	£199.000
e	18/10/2018	23/01/2018	£398.000	£387.500
um	29/11/2017	19/12/2018	£329.000	£319.500
e	13/10/2017		£478.500	
ll	05/09/2017	16/01/2017	£213.000	£199.500
um	29/10/2017	18/02/2018	£278.500	£277.000
e	11/08/2017		£278.500	
ll	30/10/2017	29/01/2018	£176.500	£174.300
um	16/11/2017	13/01/2018	£223.750	£219.750
e	15/11/2017		£135.000	
ll	05/01/2018	19/01/2018	£165.900	£168.000
e	15/09/2017	28/12/2017	£415.500	£419.500
e	15/09/2017	28/12/2017	£415.500	£419.500
e	15/09/2017	28/12/2017	£415.500	£419.500
um	11/09/2017		£199.500	

SK13 = Glossop, Derbyshire, UK

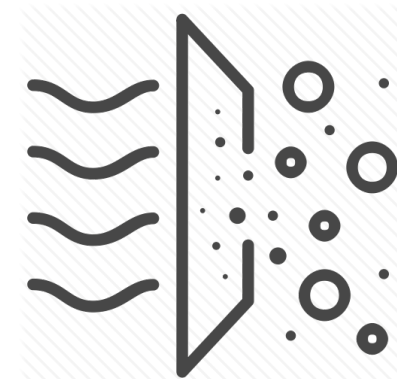
PostCode	Type	Location	Bedrooms	Bathrooms	Reception	Garden Size	Date on Market	Date Sold	Asking Price	Sale Price
SK13 7AZ	Detatched					Medium	26/11/2017		£345.000	
SK22 9GT	Semi-detatched	Village				Small	18/07/2017	01/02/2018	£245.000	£238.500
SK13 6DD	Terraced	Countryside				Small	24/10/2017	19/12/2017	£199.000	£199.000
SK14 8DS	Detatched	Town				Large	18/10/2018	23/01/2018	£398.000	£387.500
SK13 7CW	Semi-detatched	Town				Medium	29/11/2017	19/12/2018	£329.000	£319.500
SK22 3YT	Detatched	Remote				Large	13/10/2017		£478.500	
SK13 4DF	Terraced	Town				Small	05/09/2017	16/01/2017	£213.000	£199.500
SK14 7AD	Semi-detatched	Town	3	2	2	Medium	29/10/2017	18/02/2018	£278.500	£277.000
SK13 2AA	Semi-detatched	Village	3	1	2	Large	11/08/2017		£278.500	
SK13 5YY	Terraced	Town	3	2	1	Small	30/10/2017	29/01/2018	£176.500	£174.300
SK14 9FT	Bungalow	Countryside	2	2	2	Medium	16/11/2017	13/01/2018	£223.750	£219.750
SK23 4RF	Flat	Town	1	1	1	None	15/11/2017		£135.000	
SK13 1GG	Terraced	Town	3	1	2	Small	05/01/2018	19/01/2018	£165.900	£168.000
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Town	2	2	2	Medium	11/09/2017		£199.500	



PostCode	Type	Location	No Bedroom	Reception	Den	Date on Market	Date Sold	Asking Price	Sale Price
SK13 7AZ	Detatched	Town				26/11/2017		£345.000	
SK22 9GT	Semi-detatched	Countryside	3	2	Small	18/07/2017	01/02/2018	£245.000	£238.500
SK13 6DD	Terraced	Countryside	2	2	Small	24/10/2017	19/12/2017	£199.000	£199.000
SK14 8DS	Detatched	Town	4	2	Large	18/10/2018	23/01/2018	£398.000	£387.500
SK13 7CW	Semi-detatched	Town	3	2	Medium	29/11/2017	19/12/2018	£329.000	£319.500
SK22 3YT	Detatched	Remote	4	2		13/10/2017		£478.500	
SK13 4DF	Terraced	Town	2	1	Small	05/09/2017	16/01/2017	£213.000	£199.500
SK14 7AD	Semi-detatched	Town	3	2	Medium	29/10/2017	18/02/2018	£278.500	£277.000
SK13 2AA	Semi-detatched	Village	3	1	Large	11/08/2017		£278.500	
SK13 5YY	Terraced	Town	3	2	Small	30/10/2017	29/01/2018	£176.500	£174.300
SK14 9FT	Bungalow	Countryside	2	2	Medium	16/11/2017	13/01/2018	£223.750	£219.750
SK23 4RF	Flat	Town	1	1	None	15/11/2017		£135.000	
SK13 1GG	Terraced	Town	3	1	Small	05/01/2018	19/01/2018	£165.900	£168.000
SK13 6YH	Bungalow	Countryside	3	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Countryside	3	2	Large	15/09/2017	28/12/2017	£415.500	£419.500
SK13 6YH	Bungalow	Town	2	2	Medium	11/09/2017		£199.500	



## **FILTERS**

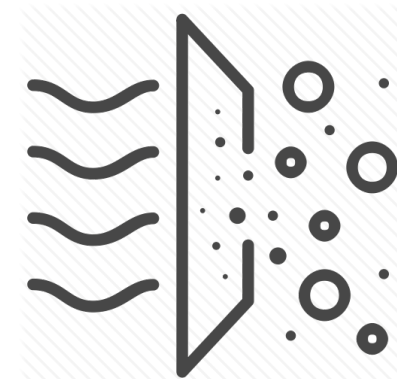


**How many entries in the property portfolio have simultaneously:**





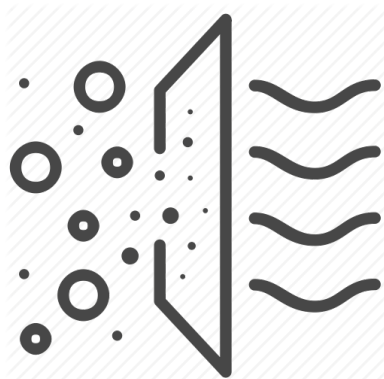
## **FILTERS**



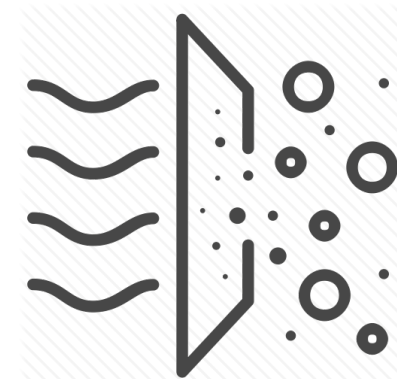
**How many entries in the property portfolio have simultaneously:**

**1) 3 bedrooms,**





## **FILTERS**



**How many entries in the property portfolio have simultaneously:**

**1) 3 bedrooms,**



**2) a medium size garden,**



## FILTERS

**How many entries in the property portfolio have simultaneously:**

**1) 3 bedrooms,**



**2) a medium size garden,**



**3) 2 bathrooms.**





## FILTERS



**How many entries in the property portfolio have simultaneously:**

**1) 3 bedrooms,**



**2) a medium size garden,**



**3) 2 bathrooms.**



**In particular: which types of apartments satisfy 1)+2)+3) and where are they located?**



## PivotTable Fields



FIELD NAME

Search fields

- ☐ PostCode
- ☐ Type
- ☐ Location
- ☐ No Bedrooms
- ☐ No Bathrooms
- ☐ Reception Rooms
- ☐ Garden Size
- ☐ Date on Market
- ☐ Date Sold
- ☐ Asking Price
- ☐ Sale Price



Filters



Columns



Rows



Values

Drag fields between areas



120%

## PivotTable Fields



FIELD NAME

Search fields

- ☐ PostCode
- ☐ Type
- ☐ Location
- ☐ No Bedrooms
- ☐ No Bathrooms
- ☐ Reception Rooms
- ☐ Garden Size
- ☐ Date on Market
- ☐ Date Sold
- ☒ Asking Price
- ☐ Sale Price

Filters

Columns

Rows

Values

Sum of Asking Price

Drag fields between areas



120%

## PivotTable Fields

FIELD NAME

Search fields

- ☐ PostCode
- ☒ Type
- ☐ Location
- ☐ No Bedrooms
- ☐ No Bathrooms
- ☐ Reception Rooms
- ☐ Garden Size
- ☐ Date on Market
- ☐ Date Sold
- ☒ Asking Price
- ☐ Sale Price

Filters

Columns

Rows

Values

Type

Sum of Asking Price

Drag fields between areas



120%

## PivotTable Fields

FIELD NAME

Search fields

- ☐ PostCode
- ☒ Type
- ☒ Location
- ☐ No Bedrooms
- ☐ No Bathrooms
- ☐ Reception Rooms
- ☐ Garden Size
- ☐ Date on Market
- ☐ Date Sold
- ☒ Asking Price
- ☐ Sale Price

Filters

Columns

Location

Rows

Values

Type

Sum of Asking Price

Drag fields between areas



120%

Sum of Asking Price		Column Labels			
Row Labels	Countryside	Remote	Town	Village	Grand Total
Bungalow	3329500	562000	499450		4390950
Detatched	1350250	1717500	2265250		5333000
Flat			310500		310500
Semi-detatched	2289500	176500	2499500	523500	5489000
Terraced	582000	142500	1062500		1787000
Grand Total	7551250	2598500	6637200	523500	17310450



Count of Asking Price		Column Labels				
Row Labels		Countryside	Remote	Town	Village	Grand Total
Bungalow		9	2	2		13
Detatched		3	4	6		13
Flat				2		2
Semi-detatched		7	1	8	2	18
Terraced		3	1	6		10
Grand Total		22	8	24	2	56

**PivotTable Fields**

FIELD NAME Search fields

- ☒ PostCode
- ☒ Type
- ☒ Location
- ☒ No Bedrooms
- ☒ No Bathrooms
- ☒ Reception Rooms
- ☒ Garden Size
- ☒ Date on Market
- ☒ Date Sold
- ☒ Asking Price
- ☒ Sale Price

**Filters**

- : PostCode
- : No Bedrooms
- : No Bathrooms
- : Reception Rooms
- : Garden Size
- : Date on Market
- : Date Sold
- : Sale Price

**Columns**

- : Location

**Rows**

- : Type

**Values**

- : Count of Asking Price

Drag fields between areas

160%

Put all the remaining fields in “Filters”



PostCode	(All)	▼				
No Bedrooms	(All)	▼				
No Bathrooms	(All)	▼				
Reception Rooms	(All)	▼				
Garden Size	(All)	▼				
Date on Market	(All)	▼				
Date Sold	(All)	▼				
Sale Price	(All)	▼				
<b>Count of Asking Price</b>	<b>Column Labels</b>	▼				
<b>Row Labels</b>	▼	<b>Countryside</b>	<b>Remote</b>	<b>Town</b>	<b>Village</b>	<b>Grand Total</b>
Bungalow		9	2	2		13
Detatched		3	4	6		13
Flat				2		2
Semi-detatched		7	1	8	2	18
Terraced		3	1	6		10
<b>Grand Total</b>		<b>22</b>	<b>8</b>	<b>24</b>	<b>2</b>	<b>56</b>

PostCode	(All)	▼
No Bedrooms	(All)	▼
No Bathrooms	(All)	▼
Reception Rooms	(All)	▼
Garden Size	(All)	▼
Date on Market	(All)	▼
Date Sold	(All)	▼
Sale Price	(All)	▼

<b>Count of Asking Price</b>	<b>Column Labels</b>
<b>Row Labels</b>	<b>Countryside</b>

Bungalow					3
Detached	3	4	6		13
Flat			2		2
Semi-detached	7	1	8	2	18
Terraced	3	1	6		10
<b>Grand Total</b>	<b>22</b>	<b>8</b>	<b>24</b>	<b>2</b>	<b>56</b>

We can now apply filters data according to the values of the remaining fields

PostCode	(All)						
No Bedrooms	3						
No Bathrooms	(All)						
Reception Rooms	(All)						
Garden Size	(All)						
Date on Market	(All)						
Date Sold	(All)						
Sale Price	(All)						
Count of Asking Price	Column Labels						
Row Labels	<div>Countryside</div>	Remote	Town	Village	Grand Total		
Bungalow		8	2		10		
Detatched			1	2	3		
Semi-detatched		6		7	2		
Terraced				2	2		
Grand Total		14	3	11	2		30

No Bedrooms

Q Search

(Select All)

1

2

3

4

5

Clear Filter

PostCode	(All)	▼
No Bedrooms	3	▼
No Bathrooms	(All)	▼
Reception Rooms	(All)	▼
Garden Size	Medium	▼
Date on Market	(All)	▼
Date Sold	(All)	▼
Sale Price	(All)	▼

<b>Count of Asking Price</b>	<b>Column Labels</b>	▼
------------------------------	----------------------	---

<b>Row Labels</b>	▼ <b>Countryside</b>
-------------------	----------------------

Detatched	
Semi-detatched	6

<b>Grand Total</b>	<b>6</b>	<b>8</b>	<b>14</b>
--------------------	----------	----------	-----------

Garden Size

Search

☒ (Select All)
   
☐ Large
   
☒ Medium
   
☐ None
   
☐ Small

Clear Filter

PostCode	(All)	
No Bedrooms	3	
No Bathrooms	2	
Reception Rooms	(All)	
Garden Size	Medium	
Date on Market	(All)	
Date Sold	(All)	
Sale Price	(All)	

<b>Count of Asking Price</b>	<b>Column Labels</b>
<b>Row Labels</b>	<b>Countryside</b>

Detatched		1	1
Semi-detatched	6	5	11
<b>Grand Total</b>	<b>6</b>	<b>6</b>	<b>12</b>

No Bathrooms

Search

☒ (Select All)










☐ 1

☒ 2

☐ 3

Clear Filter



PostCode	(All)			
No Bedrooms	3			
No Bathrooms	2			
Reception Rooms	(All)			
Garden Size	Medium			
Date on Market	(All)			
Date Sold	(All)			
Sale Price	(All)			
Count of Asking Price	Location			
Type	 Countryside	Town	Grand Total	
Detatched			1	1
Semi-detatched	6	5	11	
Grand Total	6	6	12	

No Bedrooms		3		
No Bathrooms		2		
Garden Size		Medium		
Count of Asking Price		Location		
Type		Countryside	Town	Grand Total
Detatched			1	1
Semi-detatched		6	5	11
Grand Total		6	6	12

No detached units with these features in the countryside.



Count of Asking Price	Location	Grand Total
Type	Countryside Town	Grand Total
Detached	1	1
Semi-detached	6	11
Grand Total	6	12

6 semi-detached units with these features in the countryside.



Count of Asking Price	Location	Grand Total
Type	Countryside Town	
Detatched		1
Semi-detatched	6	5
<b>Grand Total</b>	<b>6</b>	<b>6</b>

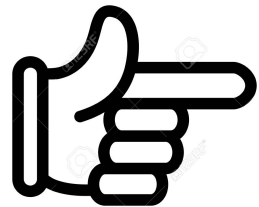
1 detached unit with these features in Town.

Count of Asking Price	Location	Grand Total
Type	Countryside Town	
Detatched		1
Semi-detatched	6	11
<b>Grand Total</b>	<b>6</b>	<b>12</b>

5 semi-detatched unit with these features in countryside

No Bedrooms		3	
No Bathrooms		2	
Garden Size		Medium	
12 units in total.			
Count of Asking Price	Location		
Type	Countryside	Town	Grand Total
Detatched			1
Semi-detatched	6	5	11
Grand Total	6	6	12

## Corrupted data



Open the file:



» **Education and working condition**



6366 full-time workers in five  
North-Central States, March 1999





“Elaborated data” (from A to H)  
are complex functions of raw  
original data (remaining columns).

“Elaborated data” (from A to H)  
are complex functions of raw  
original data (remaining columns).

=IF(I5>0;I5;".")

1	Data												
2	6366 full-time workers in five North-Central States, March 1999												
3	Recoded Variables	Original											
4	Usual Hours Worked	Education (yrs)	Yearly Earnings	Ethnic Group	Sex	Usual Weekly Earnings	State	Month in Sample	A_GRSWK	PMHRUSLT	A_AGE	A_HGA	A_RA
5	40	13	\$ 44.000	White	Male	\$ 858	Ohio	8	858	40	29	40	
6	35	12	\$ 12.000	White	Female	.	Ohio	3	0	35	57	39	
7	70	11	\$ 54.000	White	Male	.	Ohio	3	0	70	69	37	
8	40	16	\$ 48.200	White	Male	.	Ohio	7	0	40	30	43	
9	38	12	\$ 24.000	White	Male	.	Ohio	2	0	38	44	39	
10	60	18	\$ 62.000	White	Female	.	Ohio	5	0	60	45	44	
11	40	13	\$ 17.000	White	Female	.	Ohio	5	0	40	20	40	
12	50	8	\$ 25.000	Black	Male	.	Ohio	5	0	50	60	33	
13	40	11	\$ 10.000	Black	Male	.	Ohio	5	0	40	27	37	
14	50	16	\$ 65.000	White	Male	.	Ohio	7	0	50	56	43	
15	45	12	\$ 30.000	White	Male	.	Ohio	2	0	45	44	39	
16	50	16	\$ 306.731	White	Male	.	Ohio	1	0	50	37	43	
17	50	11	\$ 37.000	White	Male	\$ 643	Ohio	4	643	50	45	37	
18	40	12	\$ 34.000	White	Male	\$ 600	Ohio	4	600	40	51	39	
19	40	13	\$ 25.000	White	Male	\$ 520	Ohio	4	520	40	28	40	
20	40	12	\$ 42.000	White	Male	\$ 680	Ohio	8	680	40	44	39	
21	40	16	\$ 68.000	White	Male	.	Ohio	6	0	40	43	43	
22	50	13	\$ 70.000	White	Male	.	Ohio	6	0	50	52	40	
23	40	12	\$ 25.000	White	Female	.	Ohio	7	0	40	59	39	
24	35	13	\$ 15.400	White	Female	.	Ohio	7	0	35	30	40	
25	40	13	\$ 56.426	White	Male	.	Ohio	7	0	40	50	40	

Home

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Page Layout

Formulas

Data

Review

View



Office Update To keep up-to-date with security updates, fixes, and improvements, choose

Check for Updates

F5 fx =IF(I5&gt;0;I5;"")

The are missing values!!

## 1 Data

2 6366 full-time workers in five North-Central States, March 1999

3 Recoded Variables

Original

	Usual Hours Worked	Education (yrs)	Yearly Earnings	Ethnic Group	Sex	Usual Weekly Earnings	State	Month in Sample	A_GRSWK	PMHRUSLT	A_AGE	A_HGA	A_RA
5	40	13	\$ 44.000	White	Male	\$ 858	Ohio	8	858	40	29	40	
6	35	12	\$ 12.000	White	Female	.	Ohio	3	0	35	57	39	
7	70	11	\$ 54.000	White	Male	.	Ohio	3	0	70	69	37	
8	40	16	\$ 48.200	White	Male	.	Ohio	7	0	40	30	43	
9	38	12	\$ 24.000	White	Male	.	Ohio	2	0	38	44	39	
10	60	18	\$ 62.000	White	Female	.	Ohio	5	0	60	45	44	
11	40	13	\$ 17.000	White	Female	.	Ohio	5	0	40	20	40	
12	50	8	\$ 25.000	Black	Male	.	Ohio	5	0	50	60	33	
13	40	11	\$ 10.000	Black	Male	.	Ohio	5	0	40	27	37	
14	50	16	\$ 65.000	White	Male	.	Ohio	7	0	50	56	43	
15	45	12	\$ 30.000	White	Male	.	Ohio	2	0	45	44	39	
16	50	16	\$ 306.731	White	Male	.	Ohio	1	0	50	37	43	
17	50	11	\$ 37.000	White	Male	\$ 643	Ohio	4	643	50	45	37	
18	40	12	\$ 34.000	White	Male	\$ 600	Ohio	4	600	40	51	39	
19	40	13	\$ 25.000	White	Male	\$ 520	Ohio	4	520	40	28	40	
20	40	12	\$ 42.000	White	Male	\$ 680	Ohio	8	680	40	44	39	
21	40	16	\$ 68.000	White	Male	.	Ohio	6	0	40	43	43	
22	50	13	\$ 70.000	White	Male	.	Ohio	6	0	50	52	40	
23	40	12	\$ 25.000	White	Female	.	Ohio	7	0	40	59	39	
24	35	13	\$ 15.400	White	Female	.	Ohio	7	0	35	30	40	
25	40	13	\$ 56.426	White	Male	.	Ohio	7	0	40	50	40	

Topic\_1\_Exercise\_3\_Elaborated.xls [Compatibility Mode]

HomeInsertDrawPage LayoutFormulasDataReviewView

CutCopyFormat

Font settings: Arial, 12, Bold, Italic, Underline, Color, Background Color

Paragraph settings: Wrap Text, Merge & Center

General

Conditional FormattingFormat as Table

Cell Styles: Normal, Bad, Good, Neutral, Calculation, Check Cell, Explanatory T..., Input, Linked Cell, Note

InsertDeleteFormat

AutoSumFillClear

Sort & Filter

Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

A1fxData

1Data

26366 full-time workers in five North-Central States, March 1999

3

Recoded Variables

Original Variables

	Usual Hours Worked	Education (yrs)	Yearly Earnings	Ethnic Group	Sex	Weekly Earnings	State	Month in Sample	A_GRSWK	PMHRUSLT	A_AGE	A_HGA	A_RACE	A_SEX
4	40	13	\$ 44.000	White	Male	\$ 858	Ohio	8	858	40	29	40	1	
5	35	12	\$ 12.000	White	Female	.	Ohio	3	0	35	57	39	1	
6	70	11	\$ 54.000	White	Male	.	Ohio	3	0	70	69	37	1	
7	40	16	\$ 48.200	White	Male	.	Ohio	7	0	40	30	43	1	
8	38	12	\$ 24.000	White	Male	.	Ohio	2	0	38	44	39	1	
9	60	18	\$ 62.000	White	Female	.	Ohio	5	0	60	45	44	1	
10	40	13	\$ 17.000							40	20	40	1	
11	50	8	\$ 25.000							50	60	33	2	
12	40	11	\$ 10.000							40	27	37	2	
13	50	16	\$ 65.000	White	Male	.	Ohio	7	0	50	56	43	1	
14	45	12	\$ 30.000	White	Male	.	Ohio	2	0	45	44	39	1	
15	50	16	\$ 306.731	White	Male	.	Ohio	1	0	50	37	43	1	
16	50	11	\$ 37.000	White	Male	\$ 643	Ohio	4	643	50	45	37	1	
17	40	12	\$ 34.000	White	Male	\$ 600	Ohio	4	600	40	51	39	1	
18	40	13	\$ 25.000	White	Male	\$ 520	Ohio	4	520	40	28	40	1	
19	40	12	\$ 42.000	White	Male	\$ 680	Ohio	8	680	40	44	39	1	
20	40	16	\$ 68.000	White	Male	.	Ohio	6	0	40	43	43	1	
21	50	13	\$ 70.000	White	Male	.	Ohio	6	0	50	52	40	1	
22	40	12	\$ 25.000	White	Female	.	Ohio	7	0	40	59	39	1	
23	35	13	\$ 15.400	White	Female	.	Ohio	7	0	35	30	40	1	
24	40	13	\$ 56.426	White	Male	.	Ohio	7	0	40	50	40	1	

Select the first three lines

Count: 4



Topic\_1\_Exercise\_3\_Elaborated.xls [Compatibility Mode]

Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

Check for Updates

A1

Home Insert Draw Page Layout Formulas Data Review View

Cut Copy Paste Format

Arial 12

Wrap Text Merge & Center

General

Normal Bad Good Neutral Calculation

Check Cell Explanatory T... Input Linked Cell Note

Insert Delete Format

AutoSum Fill Sort & Filter

1 Data

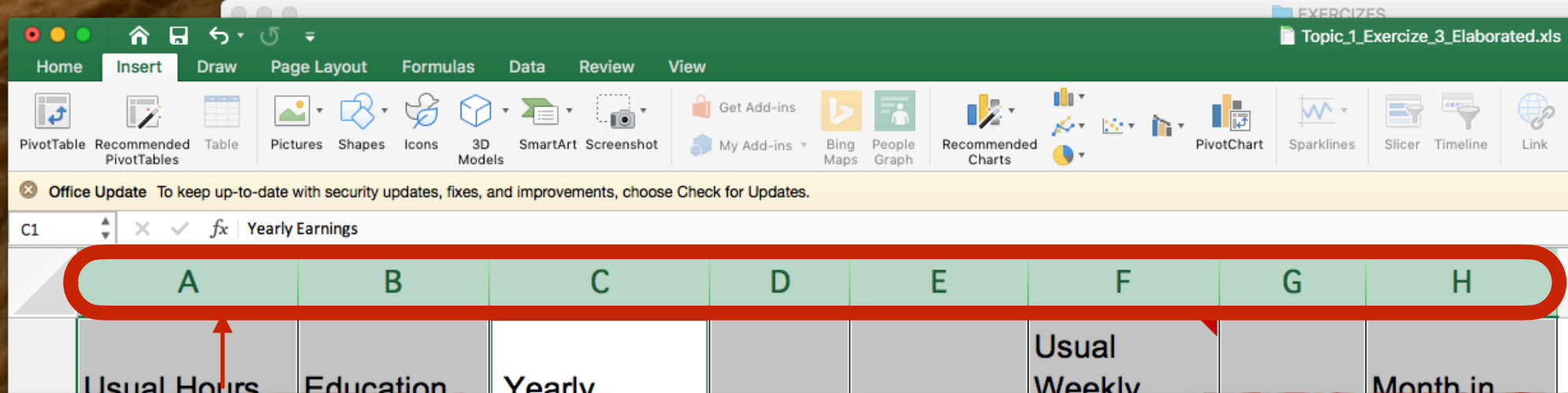
2 6366 full-time workers in five North-Central States, March 1999

3 Recoded Variables Original Variables

	Usual Hours Worked	Education (yrs)	Yearly Earnings	Ethnic Group	Sex	Usual Weekly Earnings	Month in Sample	A_GRSWK	PMHRUSLT	A_AGE	A_HGA	A_RACE	A_SEX
4	40	13	\$ 44.000	White	Male	\$	8	858	40	29	40	1	
5	35	12	\$ 12.000	White	Female	.	3	0	35	57	39	1	
6	70	11	\$ 54.000	White	Male	.	Ohio	3	0	70	69	37	1
7	40	16	\$ 48.200	White	Male	.	Ohio	7	0	40	30	43	1
8	38	12	\$ 24.000	White	Male	.	Ohio	2	0	38	44	39	1
9	60	18	\$ 62.000	White	Female	.	Ohio	5	0	60	45	44	1
10	40	13	\$ 17.000	White	Female	.	Ohio	5	0	40	20	40	1
11	50	8	\$ 25.000	Black	Male	.	Ohio	0	50	60	33	2	
12	40	11	\$ 10.000	Black	Male	.	Ohio	0	40	27	37	2	
13	50	16	\$ 65.000	White	Male	.	Ohio	0	50	56	43	1	
14	45	12	\$ 30.000	White	Male	.	Ohio	0	45	44	39	1	
15	50	16	\$ 306.731	White	Male	.	Ohio	0	50	37	43	1	
16	50	11	\$ 37.000	White	Male	\$	643	50	45	37	1		
17	40	12	\$ 34.000	White	Male	\$	600	40	51	39	1		
18	40	13	\$ 25.000	White	Male	\$	520	40	28	40	1		
19	40	12	\$ 42.000	White	Male	\$	680	40	44	39	1		
20	40	16	\$ 68.000	White	Male	.	Ohio	0	40	43	43	1	
21	50	13	\$ 70.000	White	Male	.	Ohio	0	50	52	40	1	
22	40	12	\$ 25.000	White	Female	.	Ohio	0	40	59	39	1	
23	35	13	\$ 15.400	White	Female	.	Ohio	0	35	30	40	1	
24	40	13	\$ 56.426	White	Male	.	Ohio	0	40	50	40	1	

Right-click and delete.

Count: 4 250%



Now select only the elaborated data: columns for A to H and copy with right-click menu.

5	40	16	\$	48.200	White	Male	.	Ohio	7
6	38	12	\$	24.000	White	Male	.	Ohio	2
7	60	18	\$	62.000	White	Female	.	Ohio	5
8	40	13	\$	17.000	White	Female	.	Ohio	5
9	50	8	\$	25.000	Black	Male	.	Ohio	5
10	40	11	\$	10.000	Black	Male	.	Ohio	5
11	50	16	\$	65.000	White	Male	.	Ohio	7
12	45	12	\$	30.000	White	Male	.	Ohio	2
13	50	16	\$	306.731	White	Male	.	Ohio	1
14	50	11	\$	37.000	White	Male	\$ 643	Ohio	4
15	40	12	\$	34.000	White	Male	\$ 600	Ohio	4
16	40	13	\$	25.000	White	Male	\$ 520	Ohio	4
17	40	12	\$	42.000	White	Male	\$ 680	Ohio	8
18	40	16	\$	68.000	White	Male	.	Ohio	6
19	50	13	\$	70.000	White	Male	.	Ohio	6
20	40	12	\$	25.000	White	Female	.	Ohio	7
21	35	13	\$	15.400	White	Female	.	Ohio	7
22	40	13	\$	56.426	White	Male	.	Ohio	7
23	40	12	\$	21.087	White	Male	.	Ohio	7
24	40	13	\$	50.000	White	Male	.	Ohio	7
25	49	12	\$	11.500	Black	Female	\$ 173	Ohio	4
26	60	12	\$	40.000	White	Male	.	Ohio	5
27	60	18	\$	70.000	White	Female	.	Ohio	1

Intro

Data

Data and Pivot

Codebook

Grouping

Summary Stats

Tables

Q&A

+

EXERCISES  
Topic\_1\_Exercise\_3\_Elaborated.xls

Home Insert Draw Page Layout Formulas Data Review View

PivotTable Recommended PivotTables Table Pictures Shapes Icons 3D Models SmartArt Screenshot Get Add-ins My Add-ins Bing Maps People Graph Recommended Charts PivotChart Sparklines Slicer Timeline Link

Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

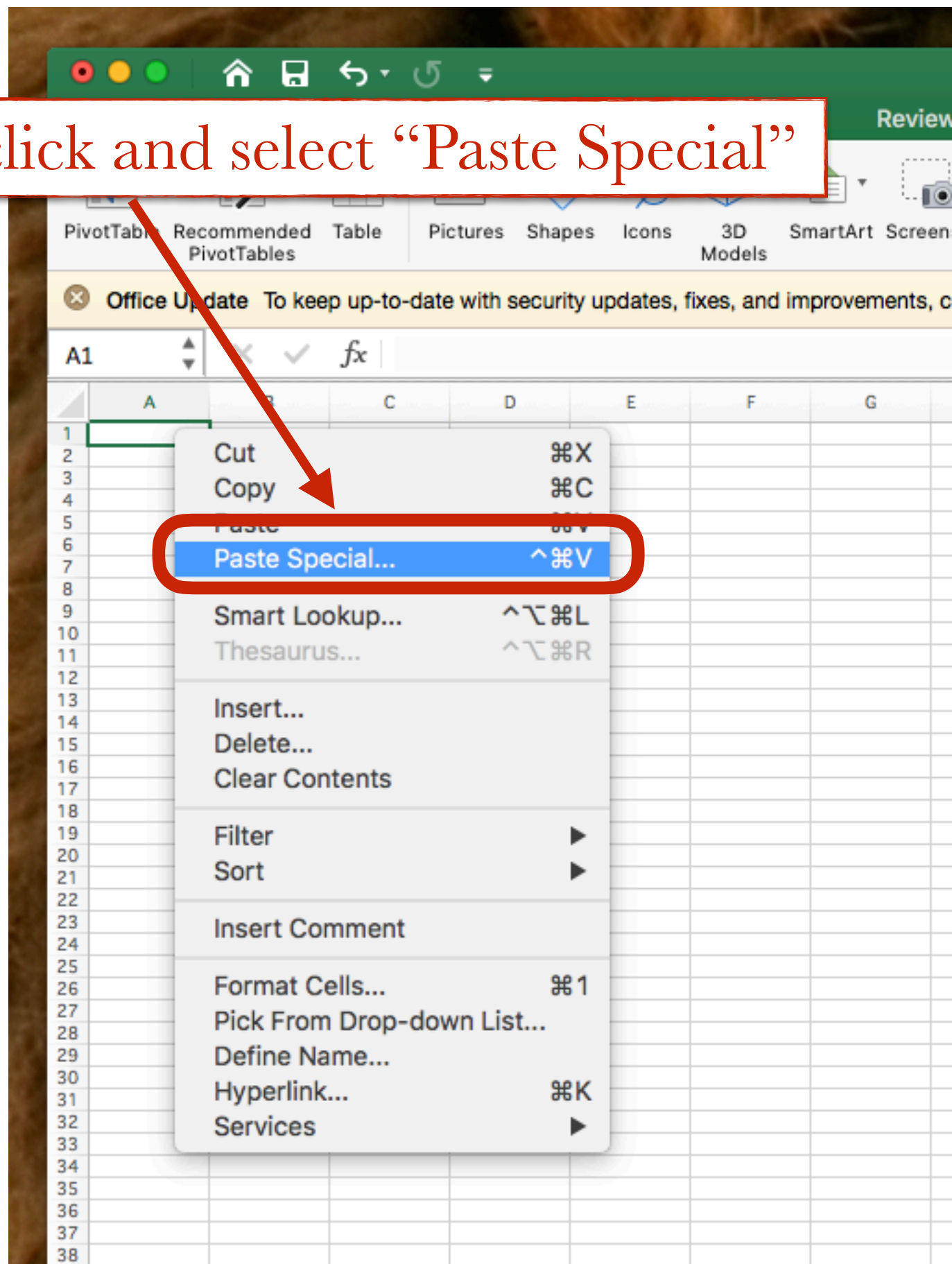
C1 x ✓ fx Yearly Earnings

	A	B	C	D	E	F	G	H
	Usual Hours Worked	Educational (yrs)				Usual Weekly Earnings	State	Month in Sample
1	40	12	\$ 11.000	White	Male	\$ 858	Ohio	8
2	35	12	\$ 12.000	White	Female	.	Ohio	3
3	70	11	\$ 54.000	White	Male	.	Ohio	3
4	40	16	\$ 48.200	White	Male	.	Ohio	7
5	38	12	\$ 24.000	White	Male	.	Ohio	2
6	60	18	\$ 62.000	White	Female	.	Ohio	5
7	40	13	\$ 17.000	White	Female	.	Ohio	5
8	50	8	\$ 25.000	Black	Male	.	Ohio	5
9	40	11	\$ 10.000	Black	Male	.	Ohio	5
10	50	16	\$ 65.000	White	Male	.	Ohio	7
11	45	12	\$ 30.000	White	Male	.	Ohio	2
12	50	16	\$ 306.731	White	Male	.	Ohio	1
13	50	11	\$ 37.000	White	Male	\$ 643	Ohio	4
14	40	12	\$ 34.000	White	Male	\$ 600	Ohio	4
15	40	13	\$ 25.000	White	Male	\$ 520	Ohio	4
16	40	12	\$ 42.000	White	Male	\$ 680	Ohio	8
17	40	16	\$ 68.000	White	Male	.	Ohio	6
18	50	13	\$ 70.000	White	Male	.	Ohio	6
19	40	12	\$ 25.000	White	Female	.	Ohio	7
20	35	13	\$ 15.400	White	Female	.	Ohio	7
21	40	13	\$ 56.426	White	Male	.	Ohio	7
22	40	12	\$ 21.087	White	Male	.	Ohio	7
23	40	13	\$ 50.000	White	Male	.	Ohio	7
24	49	12	\$ 11.500	Black	Female	\$ 173	Ohio	4
25	60	12	\$ 40.000	White	Male	.	Ohio	5
26	60	18	\$ 70.000	White	Female	.	Ohio	1

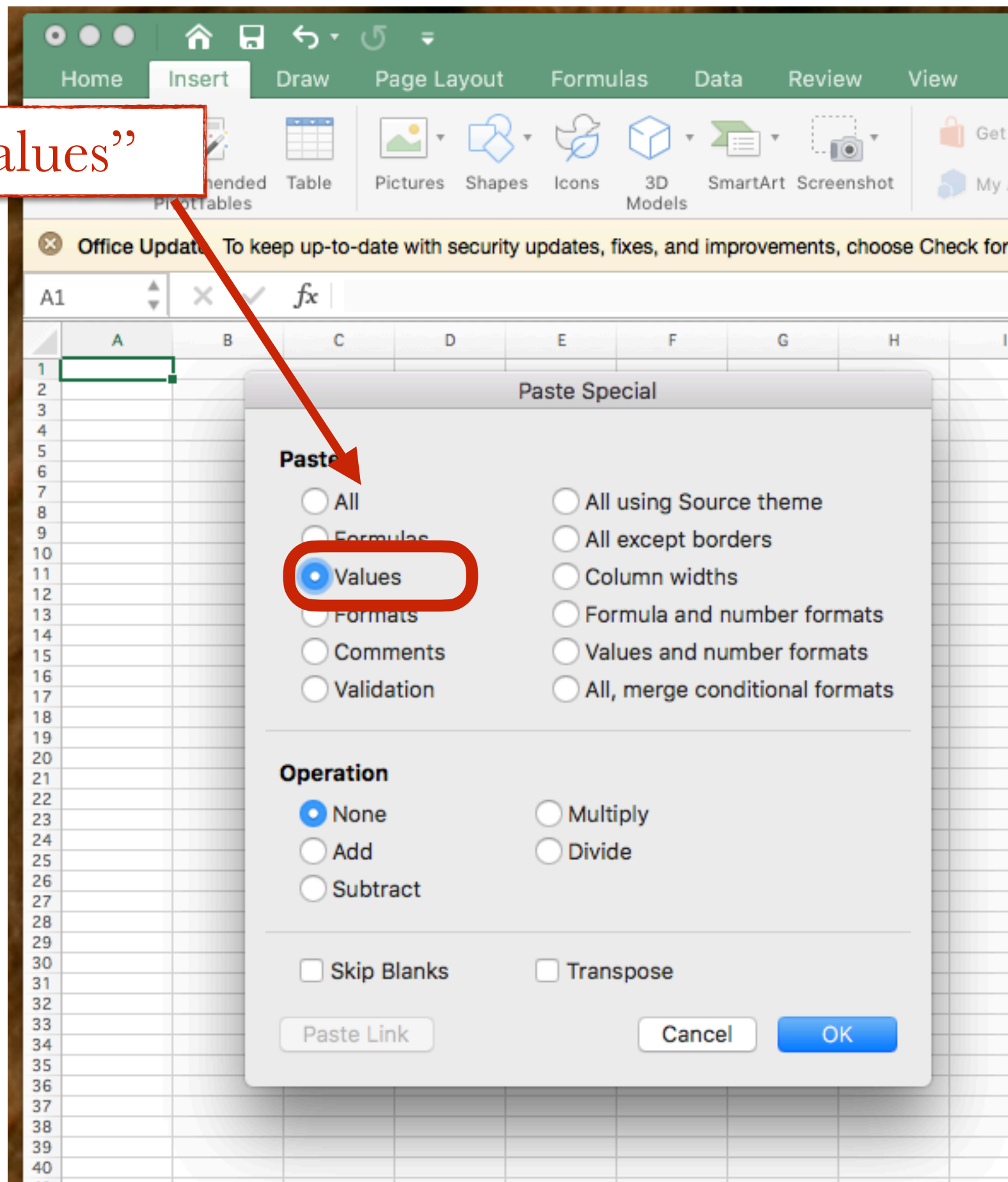
Intro Data Data and Pivot Codebook Grouping Summary Stats Tables Q&A +



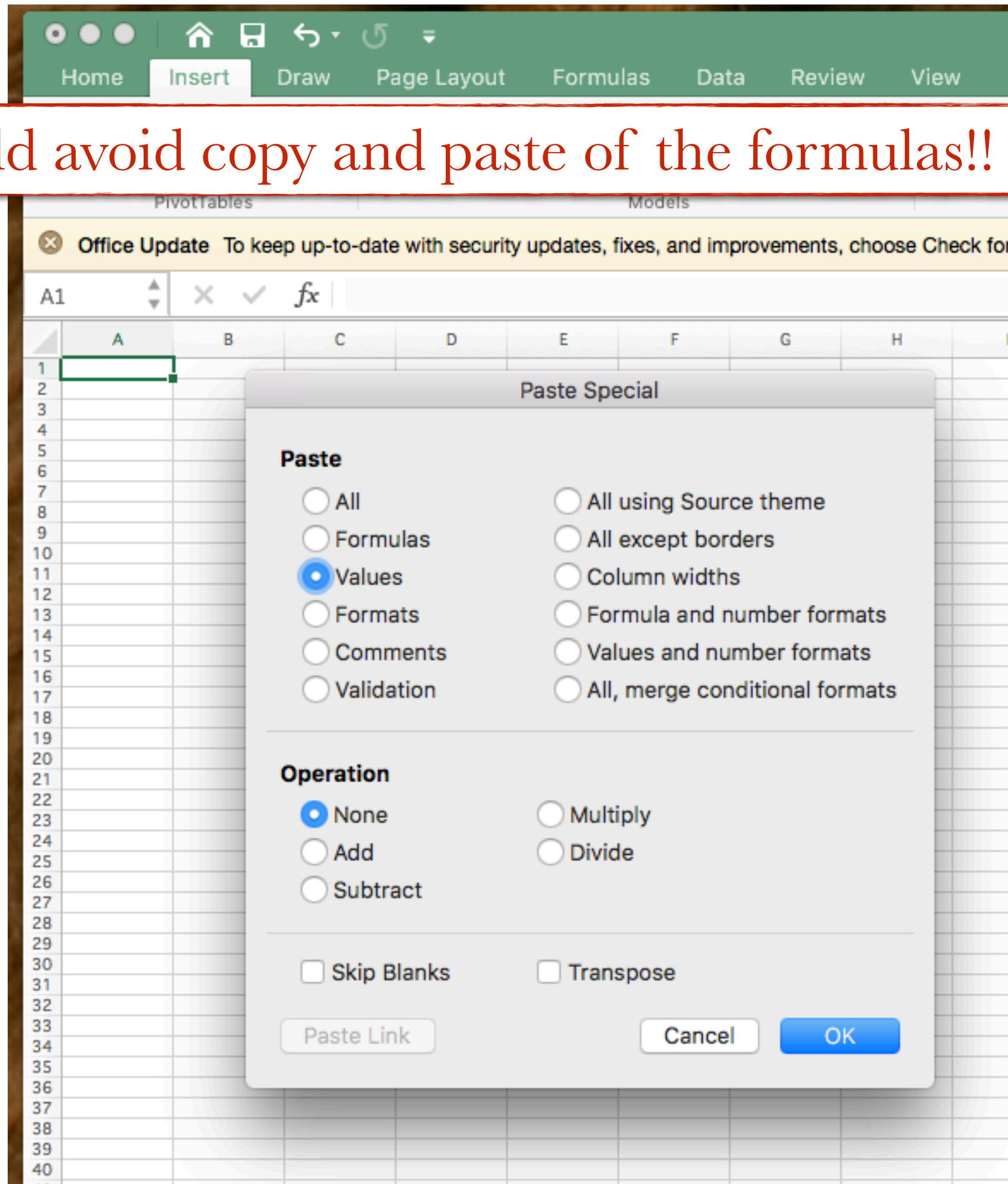
Now right-click and select “Paste Special”



Select "Values"



This would avoid copy and paste of the formulas!!



Topic\_1\_Exercise\_3\_Elaborated.xls

Home Insert Draw Page Layout Formulas Data Review View

Geneva 9 A A

Wrap Text Merge & Center

General

Normal Bad Good Neutral

Check Cell Explanatory T... Input Linked Cell

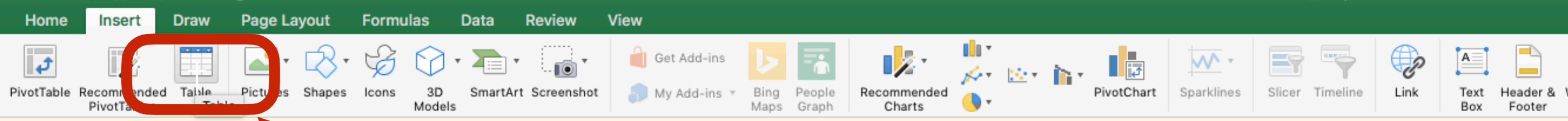
Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

D19 fx White

	A	B	C	D	E	F	G	H
1	Usual Hours W	Education (yrs)				Usual Weekly	State	Month in Sample
2	40	12	12000	White	Female	858	Ohio	8
3	35	12	12000	White	Female	.	Ohio	3
4	70	11	54000	White	Male	.	Ohio	3
5	40	16	48200	White	Male	.	Ohio	7
6	38	12	24000	White	Male	.	Ohio	2
7	60	18	62000	White	Female	.	Ohio	5
8	40	13	17000	White	Female	.	Ohio	5
9	50	8	25000	Black	Male	.	Ohio	5
10	40	11	10000	Black	Male	.	Ohio	5
11	50	16	65000	White	Male	.	Ohio	7
12	45	12	30000	White	Male	.	Ohio	2
13	50	16	306731	White	Male	.	Ohio	1
14	50	11	37000	White	Male	643	Ohio	4
15	40	12	34000	White	Male	600	Ohio	4
16	40	13	25000	White	Male	520	Ohio	4
17	40	12	42000	White	Male	680	Ohio	8
18	40	16	68000	White	Male	.	Ohio	6
19	50	13	70000	White	Male	.	Ohio	6
20	40	12	25000	White	Female	.	Ohio	7
21	35	13	15400	White	Female	.	Ohio	7
22	40	13	56426	White	Male	.	Ohio	7
23	40	12	21087	White	Male	.	Ohio	7
24	40	12	50000	White	Male	.	Ohio	7

We need a table ...





Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

	A	B	C	D	E	F	G	H
1	Usual Hours W	Education (yrs)					State	Month in Sample
2	40	12	15000	White	Male	858	Ohio	8
3	35	12	15000	White	Male		Ohio	3
4	70	11	15000	White	Male		Ohio	3
5	40	16	48200	White	Male	.	Ohio	7
6	38	12	24000	White	Male	.	Ohio	2
7	60	18	62000	White	Female	.	Ohio	5
8	40	13	17000	White	Female	.	Ohio	5
9	50	8	25000	Black	Male	.	Ohio	5
10	40	11	10000	Black	Male	.	Ohio	5
11	50	16	65000	White	Male	.	Ohio	7
12	45	12	30000	White	Male	.	Ohio	2
13	50	16	306731	White	Male	.	Ohio	1
14	50	11	37000	White	Male	643	Ohio	4
15	40	12	34000	White	Male	600	Ohio	4
16	40	13	25000	White	Male	520	Ohio	4
17	40	12	42000	White	Male	680	Ohio	8
18	40	16	68000	White	Male	.	Ohio	6
19	50	13	70000	White	Male	.	Ohio	6
20	40	12	25000	White	Female	.	Ohio	7

Select "Insert" tab and then "Table"

Home Insert Draw Page Layout Formulas Data Review View

PivotTable Recommended PivotTables Table Pictures Shapes Icons 3D Models SmartArt Screenshot Get Add-ins My Add-ins Bing Maps People Graph Recommended Charts PivotChart Sparklines Slicer Timeline Link Text Box Header &amp; Footer

Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

A1 fx Usual Hours Worked

XLS automatically recognises the range.

Create Table

Where is the data for your table?

=A\$1:\$H\$6367

☒ My table has headers

Cancel OK

	Usual					E	F	G	H
1	Usual					Sex	Usual Weekly	State	Month in Sample
2						Male	858	Ohio	8
3						Female	.	Ohio	3
4						Male	.	Ohio	3
5	40	16	48200	White		Male	.	Ohio	7
6	38	12	24000	White		Male	.	Ohio	2
7	60	18	62000	White		Female	.	Ohio	5
8	40	13	17000	White		Female	.	Ohio	5
9	50	8	25000	Black		Male	.	Ohio	5
10	40	11	10000	Black		Male	.	Ohio	5
11	50	16	65000	White		Male	.	Ohio	7
12	45	12	30000	White		Male	.	Ohio	2
13	50	16	306731	White		Male	.	Ohio	1
14	50	11	37000	White		Male	643	Ohio	4
15	40	12	34000	White		Male	600	Ohio	4
16	40	13	25000	White		Male	520	Ohio	4
17	40	12	42000	White		Male	680	Ohio	8
18	40	16	68000	White		Male	.	Ohio	6
19	50	13	70000	White		Male	.	Ohio	6
20	40	12	25000	White		Female	.	Ohio	7

PivotTable Fields

- ☐ Usual Hours Worked
- ☐ Education (yrs)

Create the following pivot table

- ☐ Usual Weekly Earnings
- ☒ State
- ☐ Month in Sample

Filters

Columns

Ethnic group

Rows

Σ Values

State

Average of yearly earnings

Drop Report Filter Fields Here

Too many digits!

Average of

State	AsianPI	Black	IndEsk	White	Grand Total
Illinois	42518,72727	28027,01163	40222,22222	38526,33008	37327,69671
Indiana	92500	29607,80645	39457,14286	33133,98032	33124,47659
Michigan	49834,85714	29419,88344	32448,15385	40412,75875	39317,01679
Ohio	47646,08333	29522,30709	47000	40839,21538	40051,05174
Wisconsin	30121,5	17680	25800	35280,57239	34497,25714
Grand Total	44921,41379	28405,68937	36237,52632	38667,00446	37796,10902

Click on information



$\Sigma$  Values

### PivotTable Field

Source field: Yearly Earnings

Field name: Average of Yearly Earnings

Summarize by

Show data as

Sum  
Count  
Average  
Max  
Min  
Product  
Count Numbers  
StdDev

Number...

Cancel

OK



$\Sigma$  Values

: Average of Yearly Earnings

### PivotTable Field

Source field: Yearly Earnings

Field name: Average of Yearly Earnings

Summarize by

Show data as

Sum

Count

Average

Max

Product

Count Numbers

StdDev

Then on Number....

Number...

Cancel

OK



# Format Cells

Number

Category:

Sample

General

Number

Currency

Accounting

Date

Time

Percentage

Fraction

Scientific

Text

Special

Custom

38667,00446

General format cells have no specific number format.

Then on Number, again!

Cancel

OK

# Format Cells

Number

Category:

General

Number

Currency

Accounting

Date

Time

Percentage

Fraction

Scientific

Text

Special

Custom

Sample

38667,00

Decimal places: 2

☐ Use 1000 Separator (,)

Negative numbers:

-1234,10

1234,10

-1234,10

-1234,10

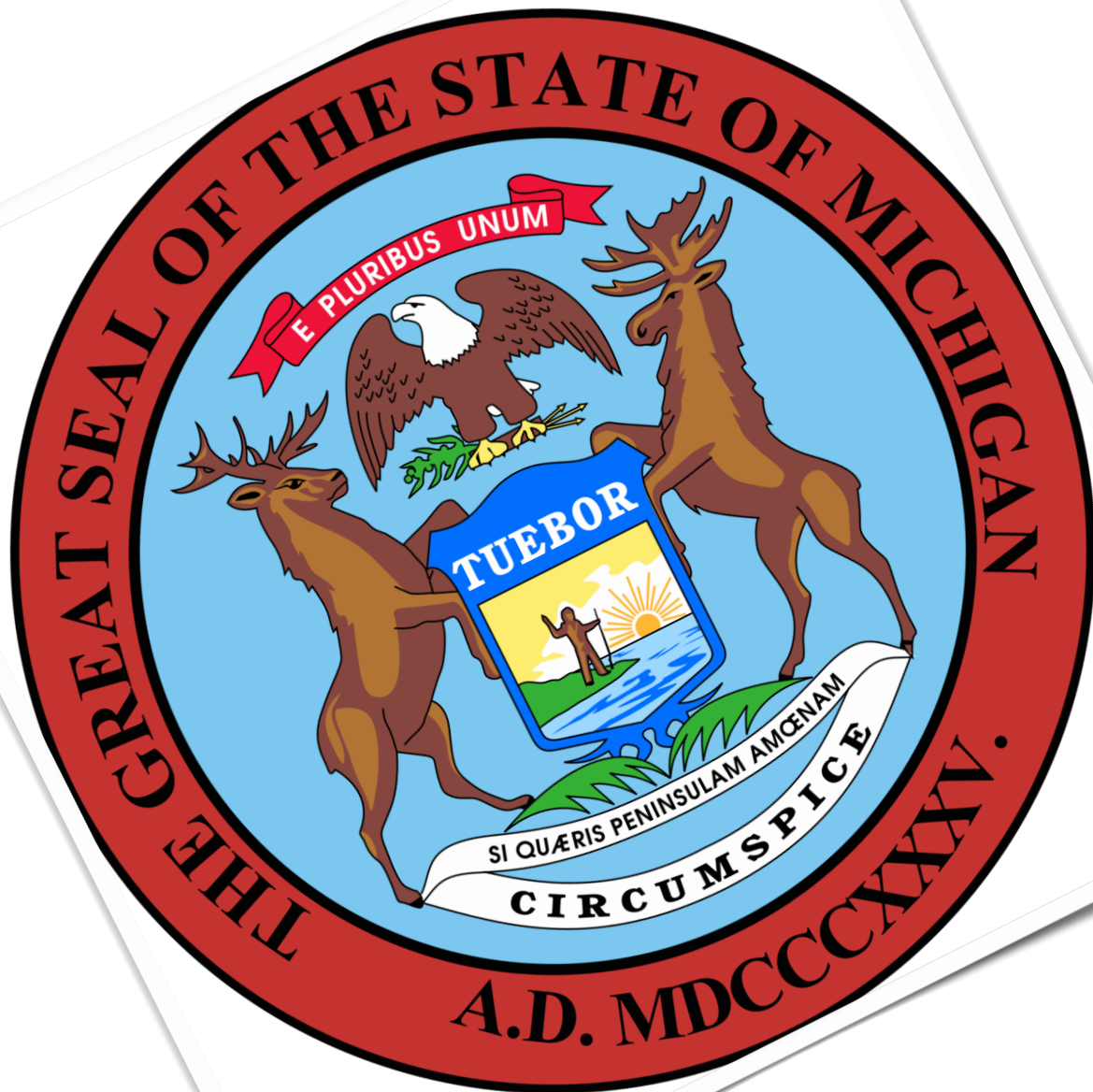
Choose 2 digits.


Number is used for general display of numbers. Currency and Accounting offer specialized formatting for monetary value.


Cancel


OK


Which is the  
**average Yearly Earnings gender gap**  
for the white group in the state of Michigan?





 Filters


 Columns


: Sex 




 Rows

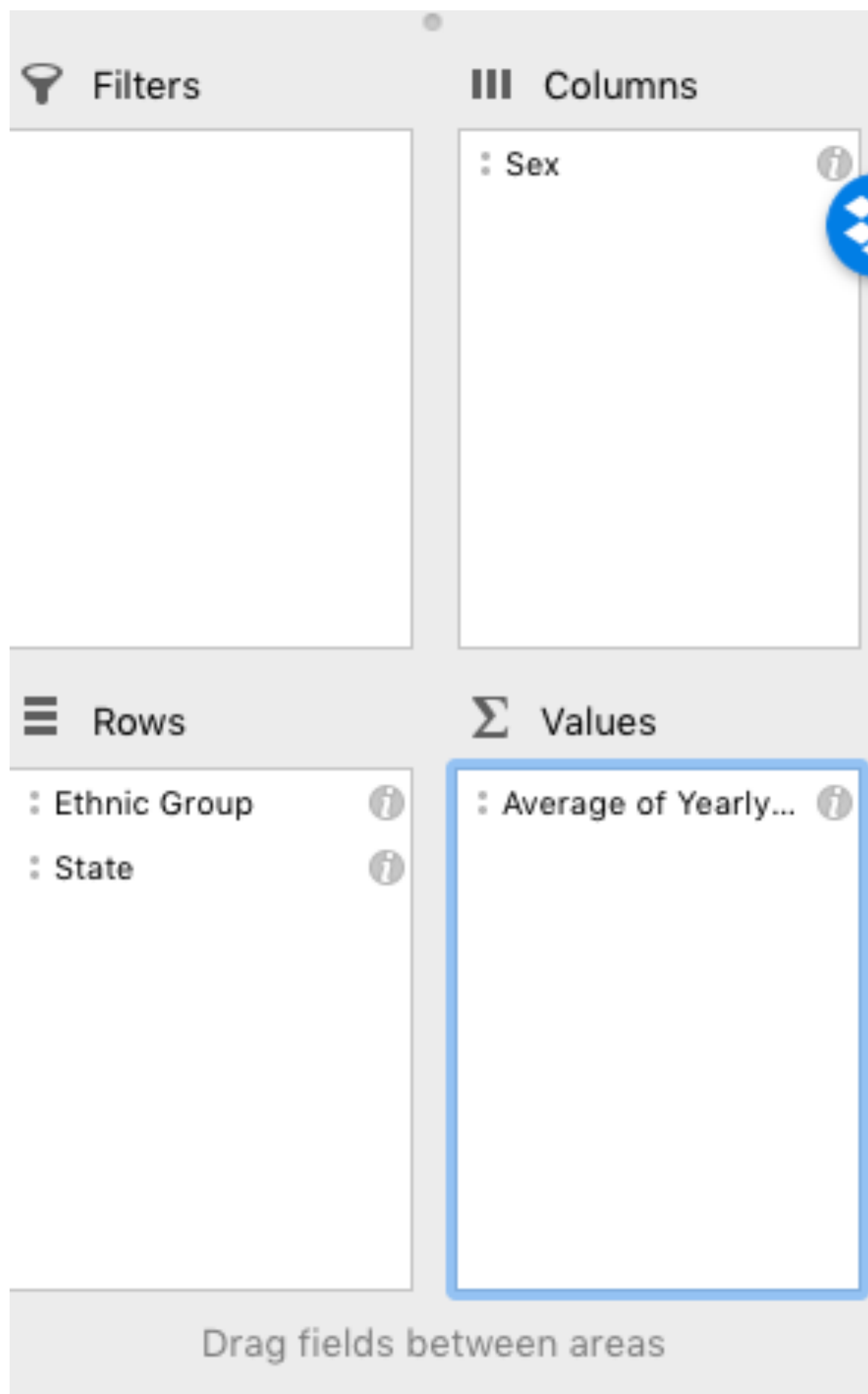
: Ethnic Group 

: State 

 Values

: Average of Yearly... 

Drag fields between areas



## Pivot Table Field

Source field: Yearly Earnings

Field name: Average of Yearly Earnings

Summarise by

Show data as

Difference From

Base field:

Usual Hours W...  
Education (yrs)  
Yearly Earnings  
Ethnic Group  
Sex

Base item:

(previous)  
(next)  
Female  
Male

Number...

Cancel

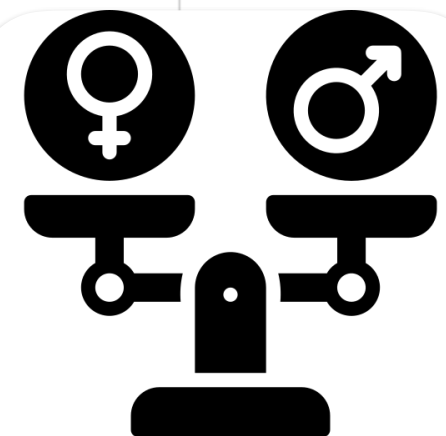
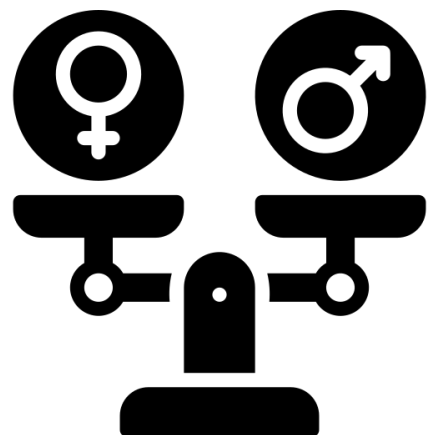
OK

Average of Yearly Earnings		Column Labels	
Row Labels	Female	Male	Grand Total
<input type="checkbox"/> AsianPI		18286,41502	
Illinois		4717,724185	
Indiana		92500	
Michigan		43267,55556	
Ohio		17869,28889	
Wisconsin		19127,73333	
<input type="checkbox"/> Black		7808,69898	
Illinois		7154,114463	
Indiana		15928,90171	
Michigan		9828,118721	
Ohio		6256,170738	
Wisconsin		-4676,666667	
<input type="checkbox"/> IndEsk		21586,0202	
Illinois		26642,85714	
Indiana		19200	
Michigan		15358,83333	
Ohio		24000	
Wisconsin		32750	
<input type="checkbox"/> White		16582,94326	
Illinois		15885,6948	
Indiana		12431,78064	
Michigan		18800,04027	
Ohio		16696,61883	
Wisconsin		17020,10542	
Grand Total		16241,90826	



Average of Yearly Earnings		Column Labels	
Row Labels	Female	Male	Grand Total
<b>AsianPI</b>		<b>18286,41502</b>	
Illinois		4717,724185	
Indiana		92500	
Michigan		43267,55556	
Ohio		17869,28889	
Wisconsin		19127,73333	
<b>Black</b>		<b>7808,69898</b>	
Illinois		7154,114463	
Indiana		15928,90171	
Michigan		9828,118721	
Ohio			
Wisconsin			
<b>White</b>		<b>21586,0202</b>	
Illinois		26642,85714	
Indiana		19200	
Michigan		15358,83333	
Ohio		24000	
Wisconsin		32750	
<b>White</b>		<b>16582,94326</b>	
Illinois		15885,6948	
Indiana		12431,78064	
Michigan		18800,04027	
Ohio		16696,61883	
Wisconsin		17020,10542	
<b>Grand Total</b>		<b>16241,90826</b>	

Gender Gap = 18800,04\$



Which is the average Usual Weekly Earnings of Asian people in Indiana?



Which is the average Usual Weekly Earnings of Asian people in Indiana?



FIELD NAME	
<input type="checkbox"/>	Usual Hours Worked
<input type="checkbox"/>	Education (yrs)
<input type="checkbox"/>	Yearly Earnings
<input checked="" type="checkbox"/>	Race
<input type="checkbox"/>	Sex
<input checked="" type="checkbox"/>	Usual Weekly Earnings
<input checked="" type="checkbox"/>	State
<input type="checkbox"/>	Month in Sample

Filters	Columns

Rows	Values
State	Average of Usual Weekly Earnings

Ethnic group

State

Average of Usual Weekly Earnings

Drop Report Filter Fields Here

Double click to see how the data is created

Average of	State	AsianPI	Black	IndEsk	White	Grand Total
Illinois		817,9090909	673,0847458	725	776,9289617	763,8215103
Indiana		#DIV/0!	637,0909091	320	672,1395349	666,9078014
Michigan		807,5	524,7073171	505,25	783,8421053	748,626506
Ohio		696	645,0769231	#DIV/0!	742,4871795	733,765043
Wisconsin		767	338,6666667	398	668,3333333	651,3741497
Grand Total		761,8148148	608,6503497	473,3333333	746,8117359	731,2972973



It's not possible to compute the average  
because data are corrupted!

				F	G	H	
						Usual Weekly Earnings	State Month in Sample
55	12	47000	IndEsk	Male	.	Ohio	5
40	18	60000	IndEsk	Male	.	Ohio	1
51	13	52000	IndEsk	Male	.	Ohio	7
40	13	29000	IndEsk	Female	.	Ohio	1



FIELD NAME

Search fields

☐ Usual Hours Worked

☐ Education (yrs)

☐ Yearly Earnings

Add usual weekly earnings to the Filters

☐ Sex

☒ Usual Weekly Earnings

☒ State

☐ Month in Sample

 Filters

 Usual Weekly Ear... 

Usual Weekly Earnings	(All)
Average of Usual Weekly Earnings	Race
State	AsianPI
Illinois	817,9090909
Indiana	#DIV/0!
Michigan	807,5
Ohio	696
Wisconsin	767
Grand Total	761,8148148

Usual Weekly Earnings

Search

☒ 2500  
☒ 2577  
☒ 2596  
☒ 2615  
☒ 2692  
☒ 2884  
☒ 2885  
☒ .

Clear Filter

Usual Weekly Earnings	(All)
Average of Usual Weekly Earnings	Race
State	AsianPI
Illinois	817,9090909
Indiana	#DIV/0!
Michigan	807,5
Ohio	696
Wisconsin	767
Grand Total	761,8148148

Usual Weekly Earnings

Search

☒ 2500  
☒ 2577  
☒ 2596  
☒ 2615  
☒ 2692  
☒ 2884  
☒ 2885  
☒ .

Clear Filter

Deselect the corrupted value

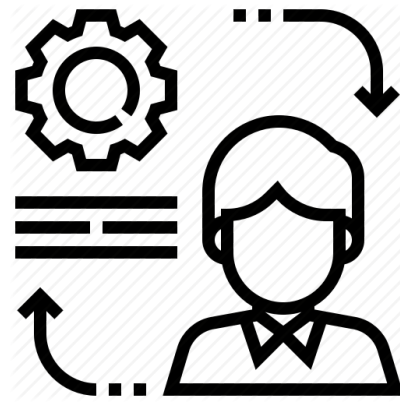
Now empty fields signal that the data are absent

Usual Week

Average of

State	AsianPl	Black	IndEsk	White	Grand Total
Illinois	817,9090909	673,0847458	725	776,9289617	763,8215103
Indiana		637,0909091	320	672,1395349	666,9078014
Michigan	807,5	524,7073171	505,25	783,8421053	748,626506
Ohio	696	645,0769231		742,4871795	733,765043
Wisconsin	767	338,6666667	398	668,3333333	651,3741497
Grand Total	761,8148148	608,6503497	473,3333333	746,8117359	731,2972973

# Classwork



Open the file: » **US property portfolio**





Practice\_1\_usa\_data\_XLS

Q Search Sheet

Share

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BBIU

Wrap TextMerge & Center

Text%

Conditional FormattingFormat as Table

NormalBadGoodNeutralCalcul...Check ...Explan...InputLinked ...Note

InsertDeleteFormat

AutoSumFillSort & FilterClear

Office UpdateTo keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

Check for Updates

C9fx4,64

	A	B	C	D	E	F	G	H
1	State	Number of residents	Energy Consumption (kWh/daily)	Number of bathrooms	Number of bedrooms	Square Foots	Garden (Y/N)	Estimated Market Price (\$)
2	Alabama	3	5,88	2	4	1911,22	N	199163,3
3	Illinois	6	5,17	2	3	1840,21	N	199136,6
4	Virginia	6	5,07	4	4	1773,02	Y	197889
5	Montana	2	5,94	3	3	1896,79	N	204227
6	Georgia	6	5,25	4	3	1766,82	Y	194786,3
7	South Dakota	3	6,47	4	3	1969,63	N	208109,8
8	Colorado	5	6,72	3	2	1720,67	Y	203454,6
9	Arizona	3	4,64	4	2	1785,26	N	197769,2
10	Kansas	3	5,68	2	2	1836,37	Y	206217,1
11	Oregon	4	5,7	3	4	1783,74	N	200618,2
12	Minnesota	2	6,46	4	2	1784,24	Y	197296,1
13	Wyoming	5	5,69	4	3	1922,63	N	202165
14	Delaware	4	4,34	2	2	1602,73	Y	206184,5
15	Alabama	6	5,18	4	3	1845,33	N	196961,1
16	Idaho	2	5,48	4	4	1845,77	Y	199081,6
17	Mississippi	6	4,85	3	4	1808,65	Y	194299,6
18	New Hampshire	6	5,24	3	3	1783,42	N	195789,9

Sheet1+

270%

# Question #1

What is the maximum estimated market price for a unit with 4 bathrooms in Alabama and in West Virginia?

# Question #1


What is the maximum estimated market price for a unit with 4 bathrooms in Alabama and in West Virginia?

Filters	Columns
: State	: Number of bathrooms
Rows	Values
: Number of bedrooms	: Max of Estimated Market Price (\$)

# Question #1

What is the maximum estimated market price for a unit with 4 bathrooms in Alabama and in West Virginia?

State	(Multiple Items) 
-------	--

	Number of bathrooms 			Grand Total
	2	3	4	
Max. of Estimated Market Price (\$)	208885,8	206492	209247	209247

## **Question #2**

How many units in Texas have a garden?



# Question #2

How many units in Texas have a garden?

State	Texas
-------	-------

Garden (Y/N)	Count of Garden (Y/N)
N	213
Y	197
Grand Total	410

## **Question #3**

What is the difference between the average estimated market price in Alabama for a unit with a garden and a unit without?

# Question #3

What is the difference between the average estimated market price in Alabama for a unit with a garden and a unit without?

Pivot Table Field

Source field: Estimated Market Price (\$)

Field name: Average of Estimated Market Price (\$)

Summarise by Show data as

Difference From

Base field: Base item:

Energy Consu...  
Number of bat...  
Number of be...  
Square Feet  
Garden (Y/N)

(previous)  
(next)  
N  
Y

Number... Cancel OK

State	Alabama
Garden (Y/N)	Average of Estimated Market Price (\$)
N	
Y	11,70285475
Grand Total	

## **Question #4**

Which is the percentage, relative to all the units, of the number of units with a number of residents greater or equal to 5?

## Question #4

Which is the percentage, relative to all the units, of the number of units with a number of residents greater or equal to 5?

Pivot Table Field

Source field: Number of residents

Field name:

Summarise by

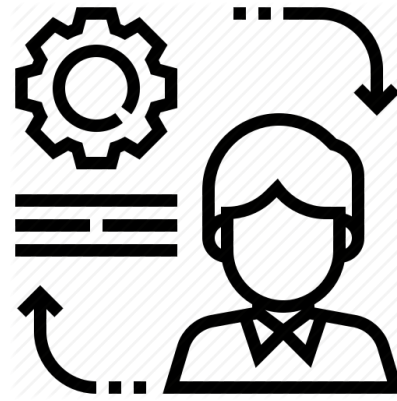
Base field:   
Number of residents  
Energy Consumption  
Number of bathroom  
Number of bedroom

Base item:

Number of residents	Count of Number of residents
2	19,95%
3	19,86%
4	19,90%
5	20,06%
6	20,24%
Grand Total	100,00%
	40,30%



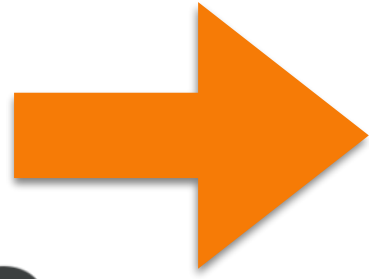
# Classwork



Open the file: » **World Bank indicators**



Questions
Q1: How many mobile phone subscribers in Switzerland during 2006?
Q2: Which is, in the year 2007, the percentage difference between Uk and Italy in terms of average health expenditure per capita? Which country invests more in health care?
Q3: Which is the difference in average life expectancy at birth (total) between UK and italy in 2008?
Q4: Which is the percentage of population with more than 65 years for which the maximum number of internet users is achieved?
Q5: Which is the average GDP per capita (in current \$) when the life expectancy at birth (total) is 40 years?
Q6: Which is the relative difference between germany and italy of the average number of passenger cars (per 1000 people) in 2009?
Q7: Which is the relative difference between germany and japan of the average number of passenger cars (per 1000 people) in 2009?



Airplane crashes.

