## UNIVERSITY OF MARYLAND University College

## Learning Resource

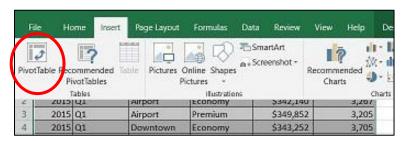
## Pivot Tables and Averages

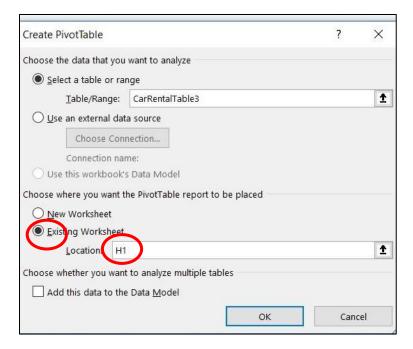
Using the same workbook and tables created in previous tutorials (CarRentalTable) we want to create a pivot table that displays average quarterly revenue. Here is a look at the data for 2015 and 2016.

1	A	В	C	D	E	F
	Year -	Quarter -	Location -	CarClass -	Revenue *	NumCars *
2	2015	Q1	Airport	Economy	\$342,140	3,267
3	2015	Q1	Airport	Premium	\$349,852	3,205
4	2015	Q1	Downtown	Economy	\$343,252	3,705
5	2015	Q1	Downtown	Premium	\$351,060	3,477
6	2015	Q2	Airport	Economy	\$422,192	4,068
7	2015	Q2	Airport	Premium	\$370,128	3,487
8	2015	Q2	Downtown	Economy	\$455,424	4,800
9	2015	Q2	Downtown	Premium	\$296,120	2,897
10	2015	Q3	Airport	Economy	\$580,576	3,214
11	2015	Q3	Airport	Premium	\$752,272	3,581
12	2015	Q3	Downtown	Economy	\$504,800	4,200
13	2015	Q3	Downtown	Premium	\$471,816	3,500
14	2015	Q4	Airport	Economy	\$533,744	3,576
15	2015	Q4	Airport	Premium	\$496,840	3,192
16	2015	Q4	Downtown	Economy	\$582,504	3,350
17	2015	Q4	Downtown	Premium	\$619,900	3,199
18	2016	Q1	Airport	Economy	\$486,252	3,440
19	2016	Q1	Airport	Premium	\$701,460	3,787
20	2016	Q1	Downtown	Economy	\$415,016	3,430
21	2016	Q1	Downtown	Premium	\$552,324	3,629
22	2016	Q2	Airport	Economy	\$486,056	3,424
23	2016	Q2	Airport	Premium	\$626,232	3,392
24	2016	Q2	Downtown	Economy	\$488,588	3,551
25	2016	Q2	Downtown	Premium	\$585,156	3,440
26	2016	Q3	Airport	Economy	\$503,212	3,287
27	2016	Q3	Airport	Premium	\$665,548	3,474
28	2016	Q3	Downtown	Economy	\$483,256	3,515
29	2016	Q3	Downtown	Premium	\$643,168	3,493
30	2016	Q4	Airport	Economy	\$555,768	3,848
31	2016	Q4	Airport	Premium	\$687,844	3,327
32	2016	Q4	3	Economy	\$421,120	3,947
33	2016	Q4	Downtown	Premium	\$527,900	3,371

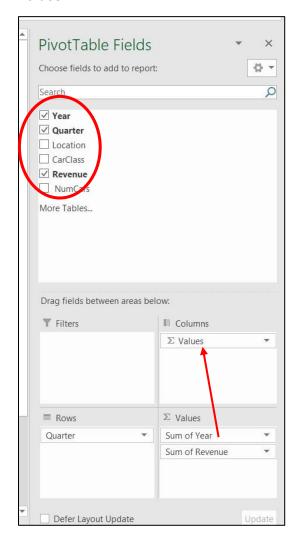
The desired Pivot Table should show years (2015 and 2016) and quarters (Q1, Q2, Q3, Q4). The choice is a 4 row and 2 column or a 2 row and 4 column pivot table. Since 4 rows and 2 columns presents a narrower footprint (width), this tutorial will use a 4 x 2 (Row, Column) Pivot Table.

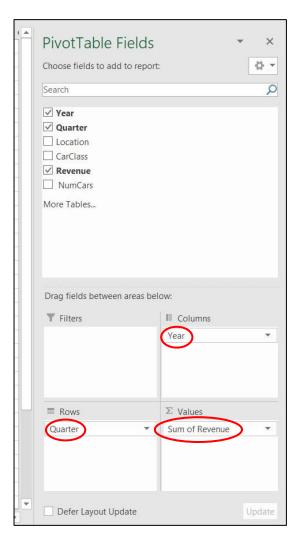
1. Select all the data in the table, click on Insert/Pivot Table. Locate the table on the existing worksheet and positioned in cell H1.





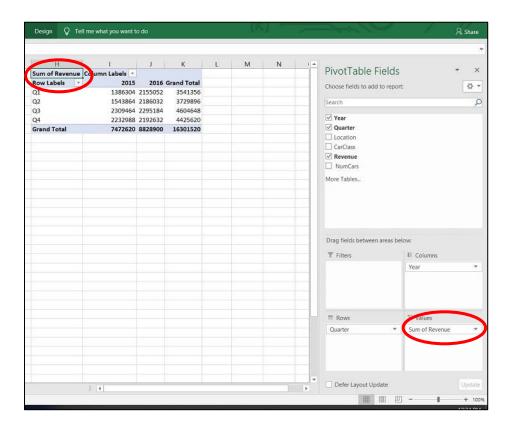
2. Select the fields Year, Quarter, and Revenue. For Quarters to be displayed in Rows, drag Quarter to Row. Then drag Year to columns. Make sure (Sum of) Revenue is in Values.



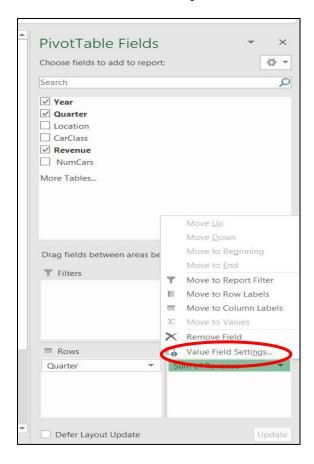


The default value for Pivot Tables is Sum; but the requirement is for Average.

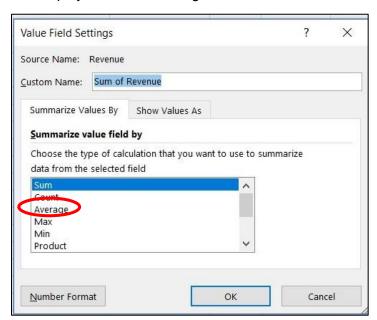
3. Click "Sum of Revenue" in the upper left hand corner of the Pivot Table to bring up the Pivot Table Fields box. In the Pivot Table Fields box, left click on Sum of Revenue in the Values category (or click on the pulldown icon behind the title.



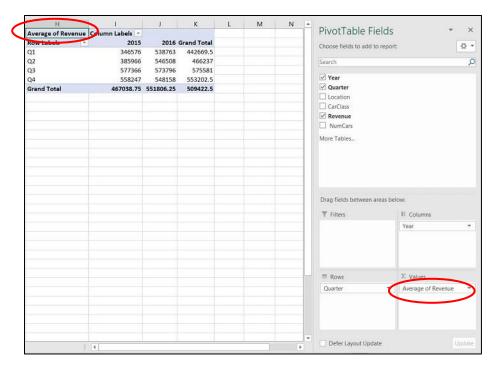
A popup window is displayed. Select Value Field Settings



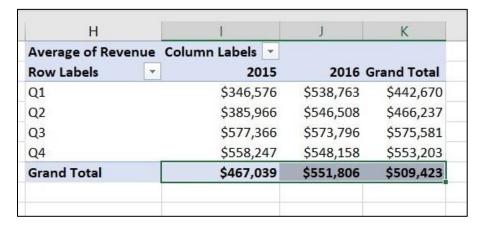
A new window is displayed. Select Average and click on OK.



The Pivot Table design box will reflect the calculation change. And the Pivot Table will reflect averages instead of the default sums.



Be sure to format the data appropriately (Currency, no decimal places in this case).



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