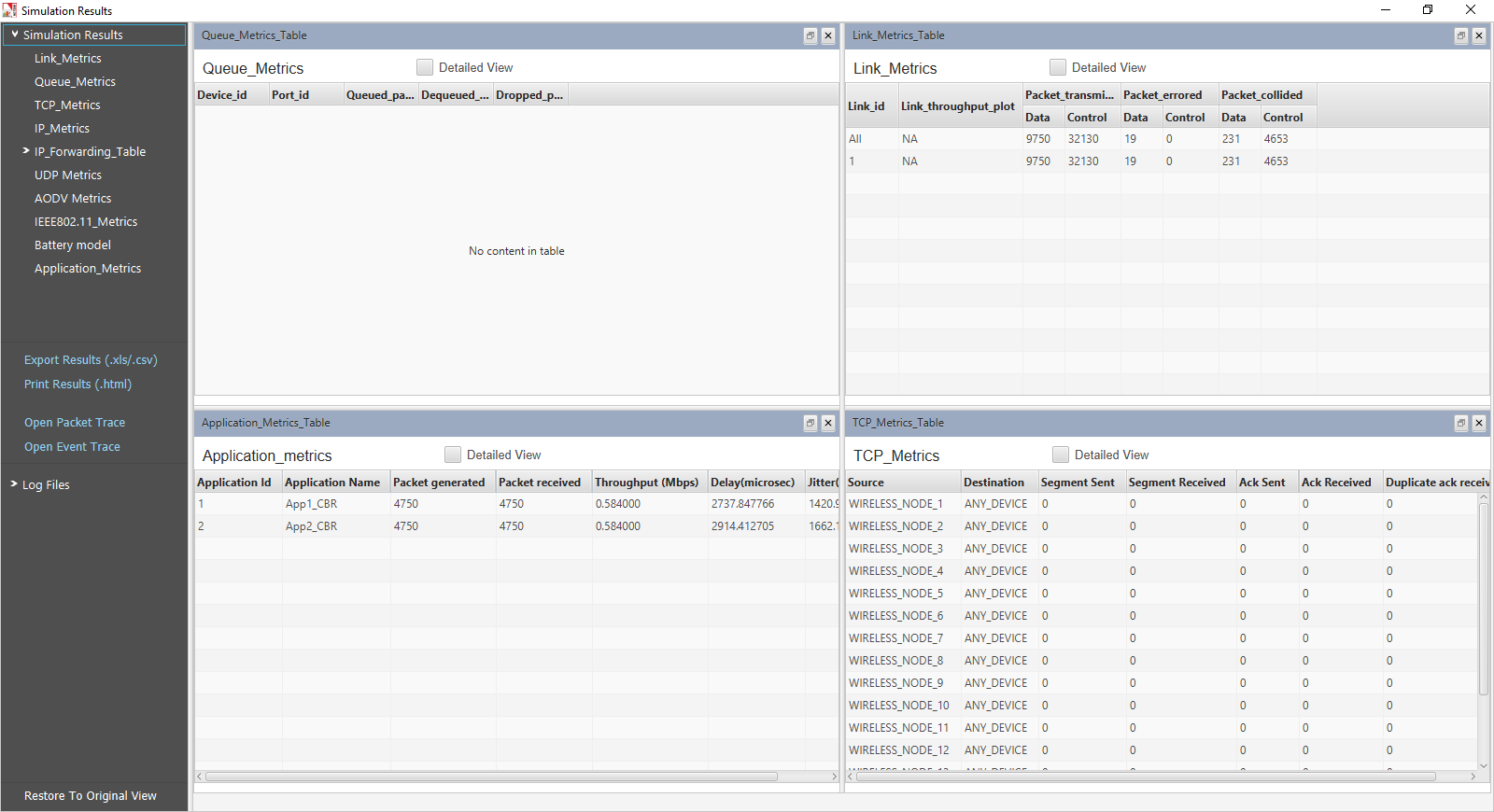
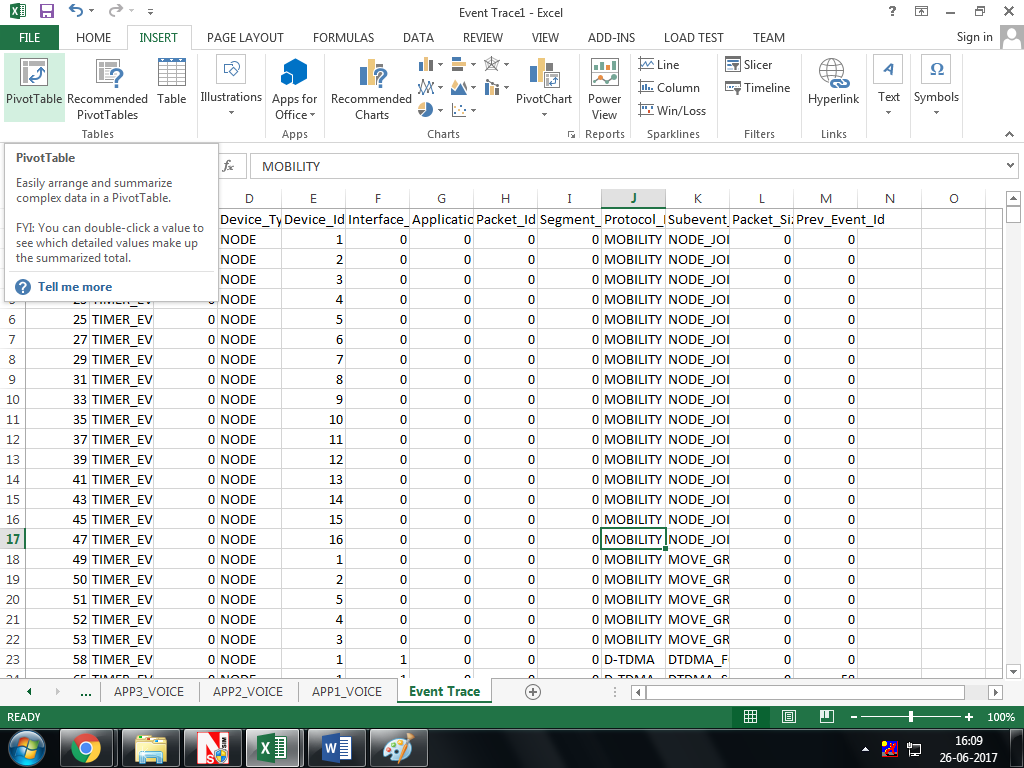
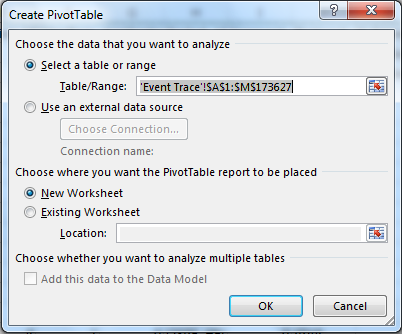
1. Select Event Trace in the Simulation results window



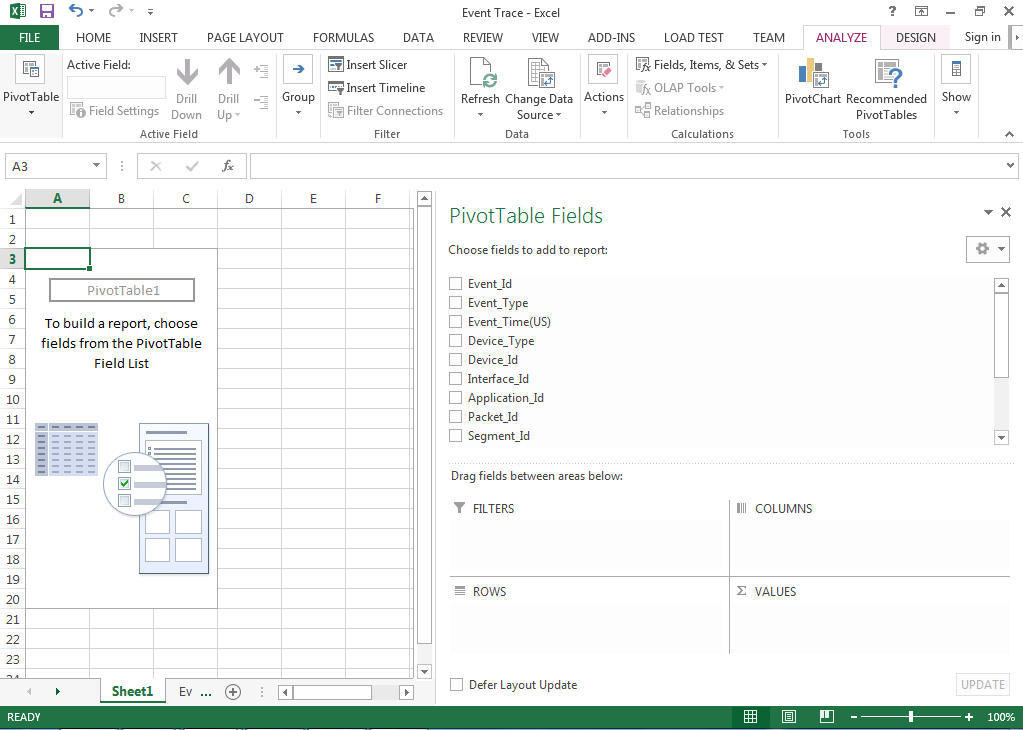
1. Click on **Pivot Table** in **INSERT** tab



1. Then a window named **Create Pivot Table** pops up which automatically selects the entire table, then click **OK** button.



1. A blank **PivotTable** and **Field List** will appear on a new worksheet.

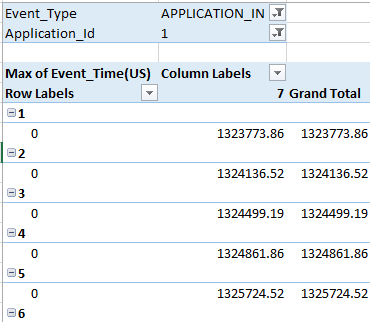


1. Once you create a PivotTable, you will need to decide which **fields** to add. Each field is simply a **column header** from the source data. In the **PivotTable Field List**, check the box for each field you want to add.

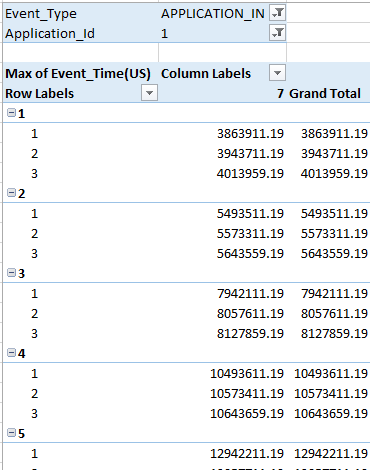
**CASE 1: NO SEGMENTATION**

1. This case occurs if the application packet size does not get segmented. If there are segments users can see segment 1, segment 2 etc

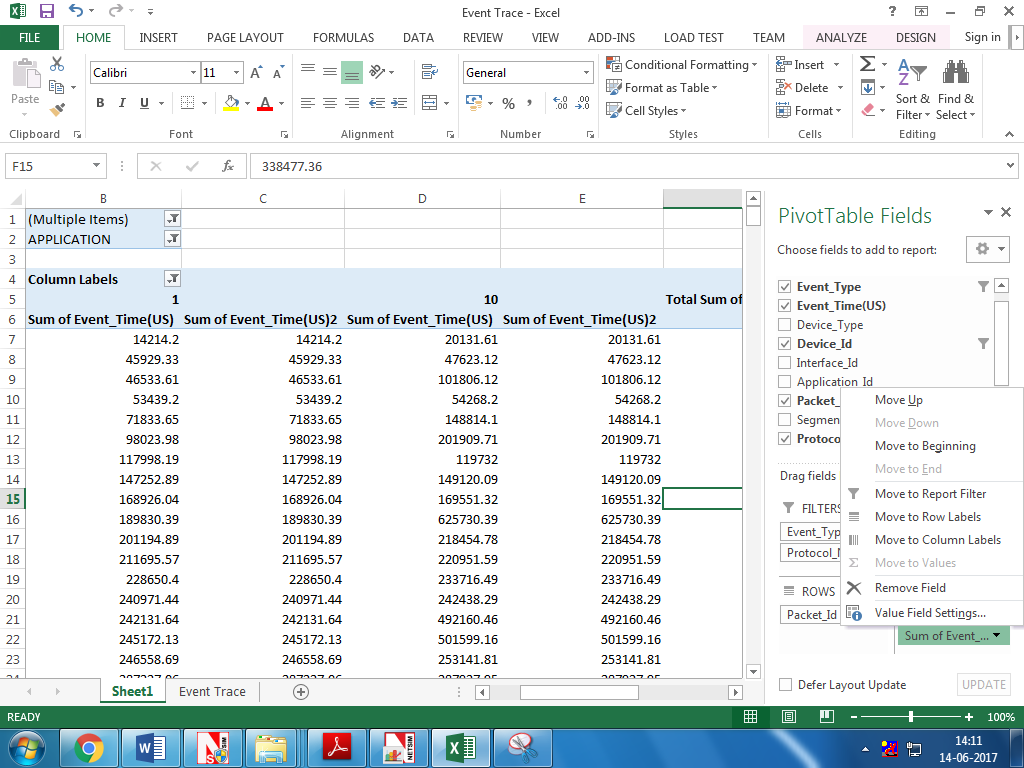
**Without Segmentation:**



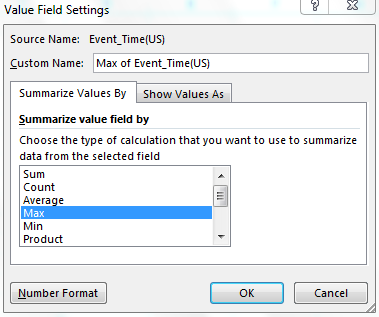
**With Segmentation:**



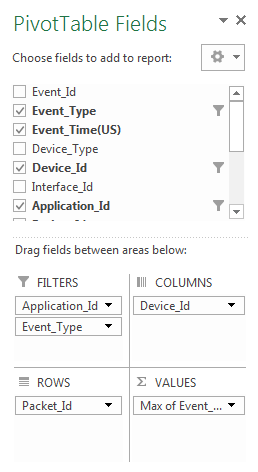
1. Drag and drop the **Event\_Type**, **Application\_Id** Fields into **FILTERS,** **Packet\_Id** into **ROWS** and **Device\_Id** into **COLUMNS**.
2. Drag and Drop **Event\_Time** Field into **VALUES**.
3. Click on the **Event\_Time** field in the VALUES and select the **Value Field Settings.**



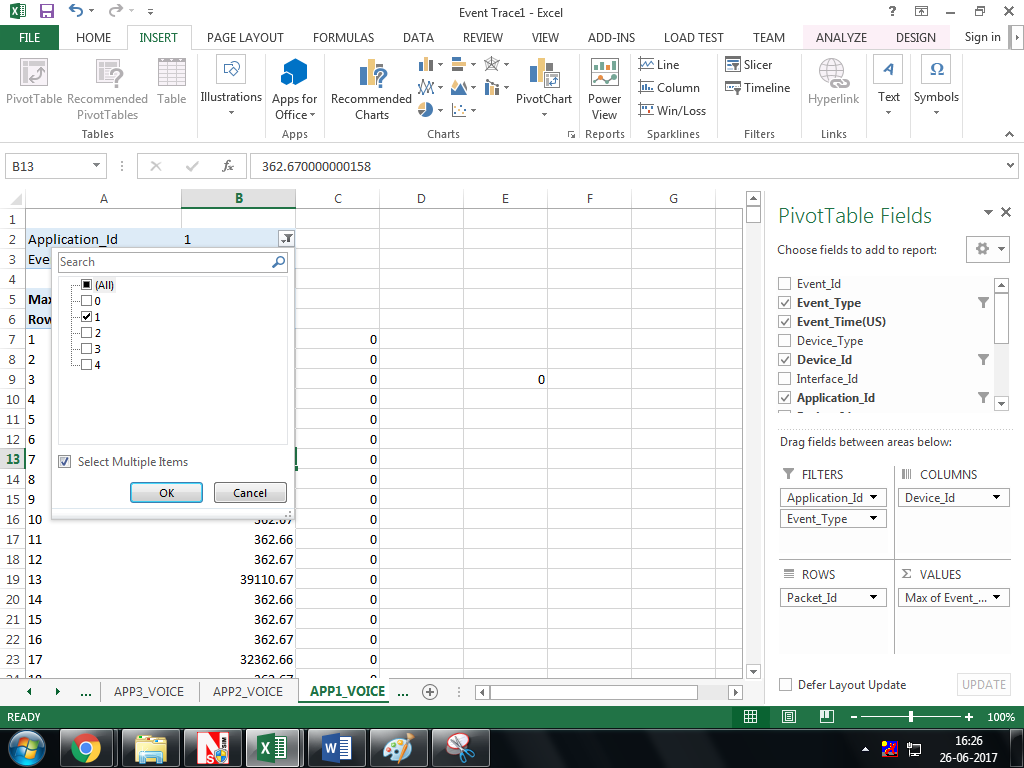
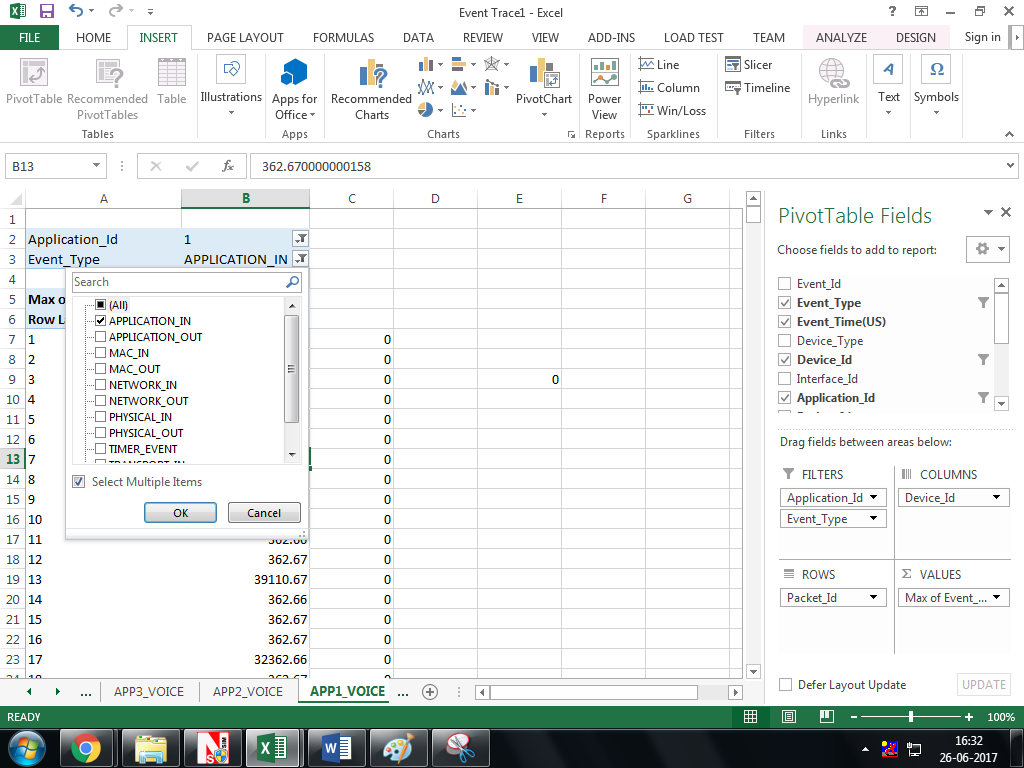
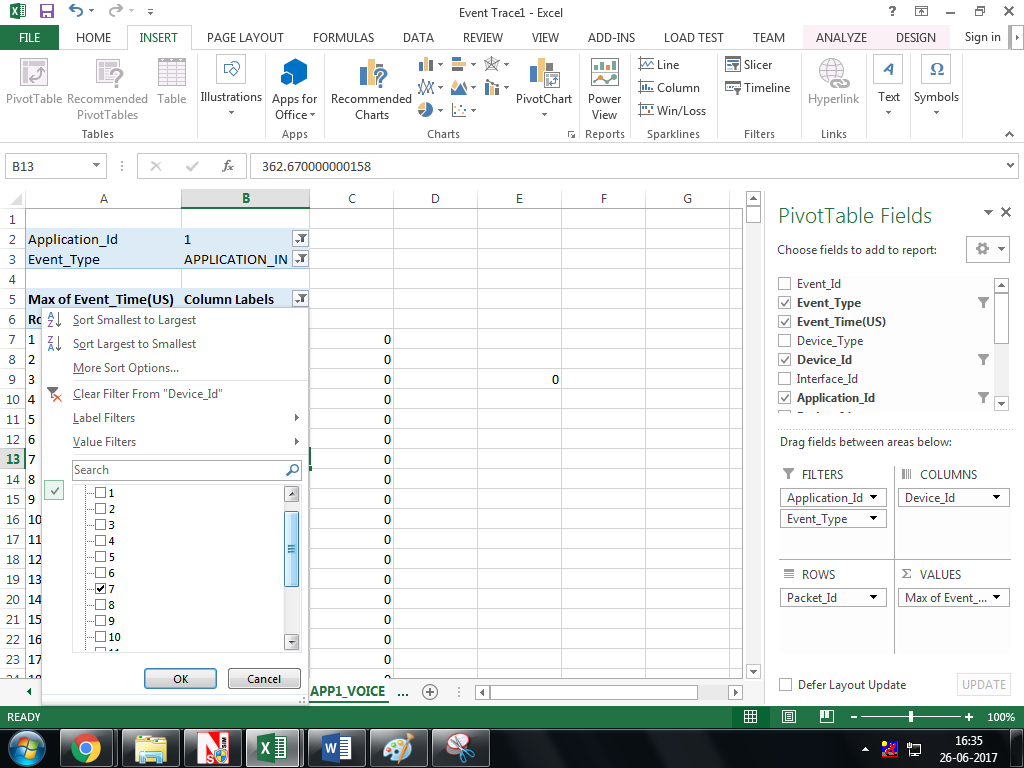
1. A window named **Value Field Settings** opens then select **Max** option and click **OK** button



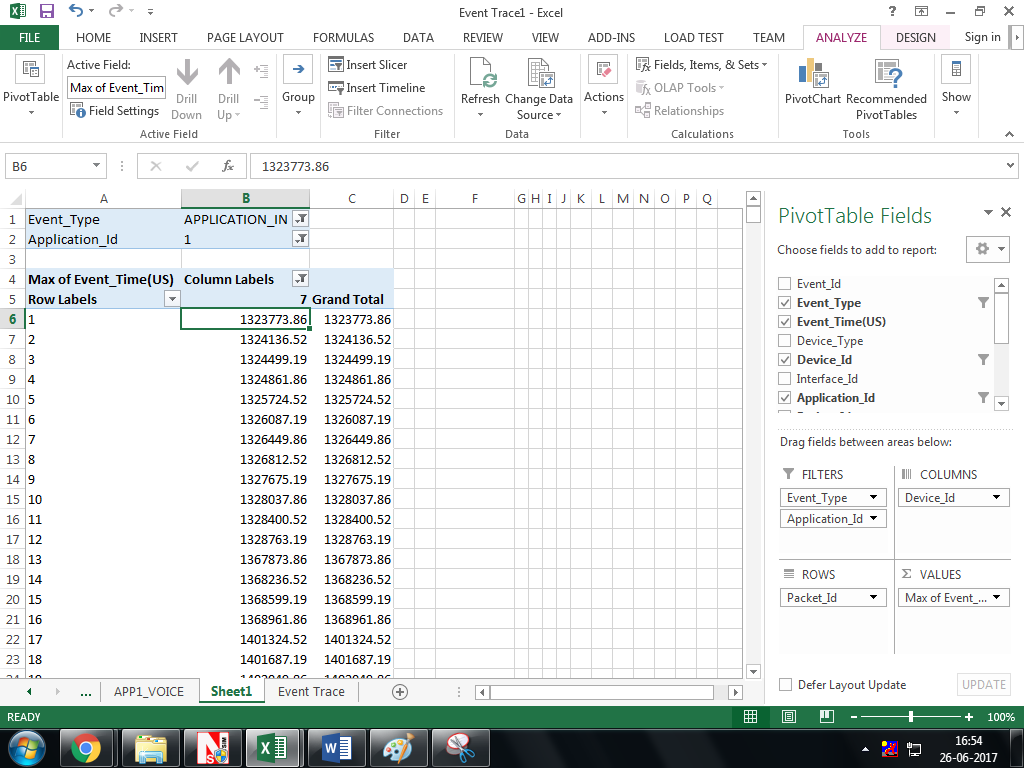
1. Then finally the **Pivot Table Fields** will be as shown below.



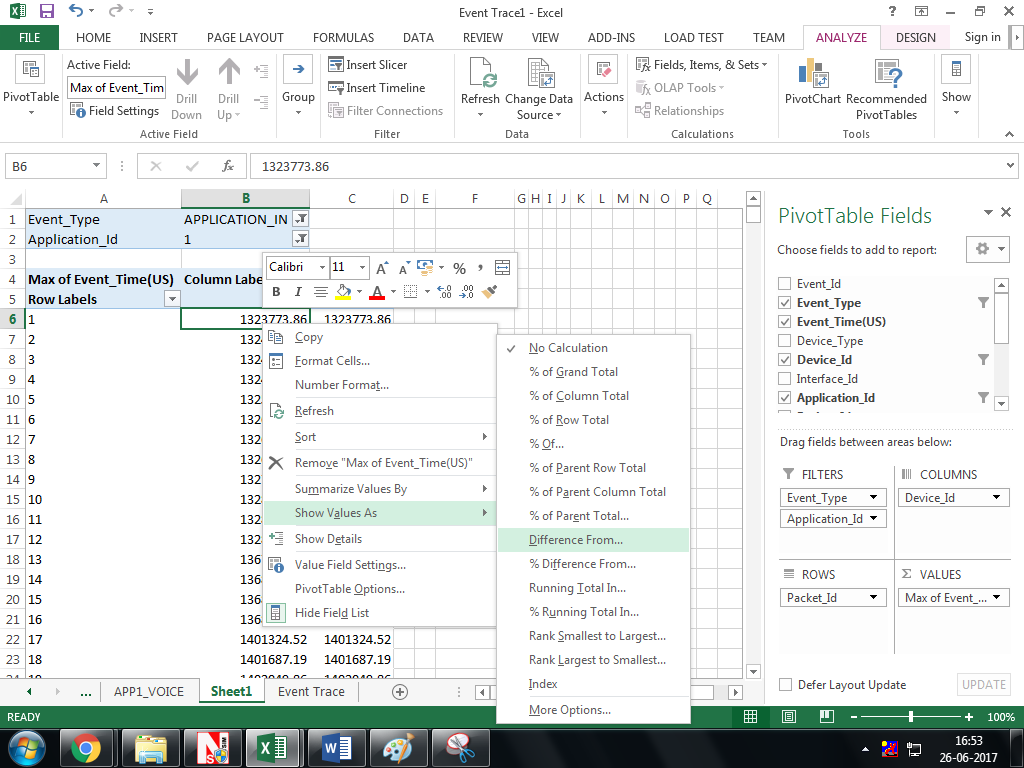
1. In the Column Labels Select the **Application\_Id,** in **Event\_Type** select **APPLICATION\_IN** and select **Destination\_Id**.



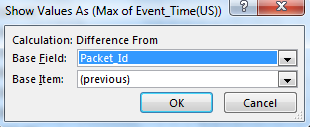
And the Pivot Table created will be as shown (7(in this case) is the Destination\_Id)



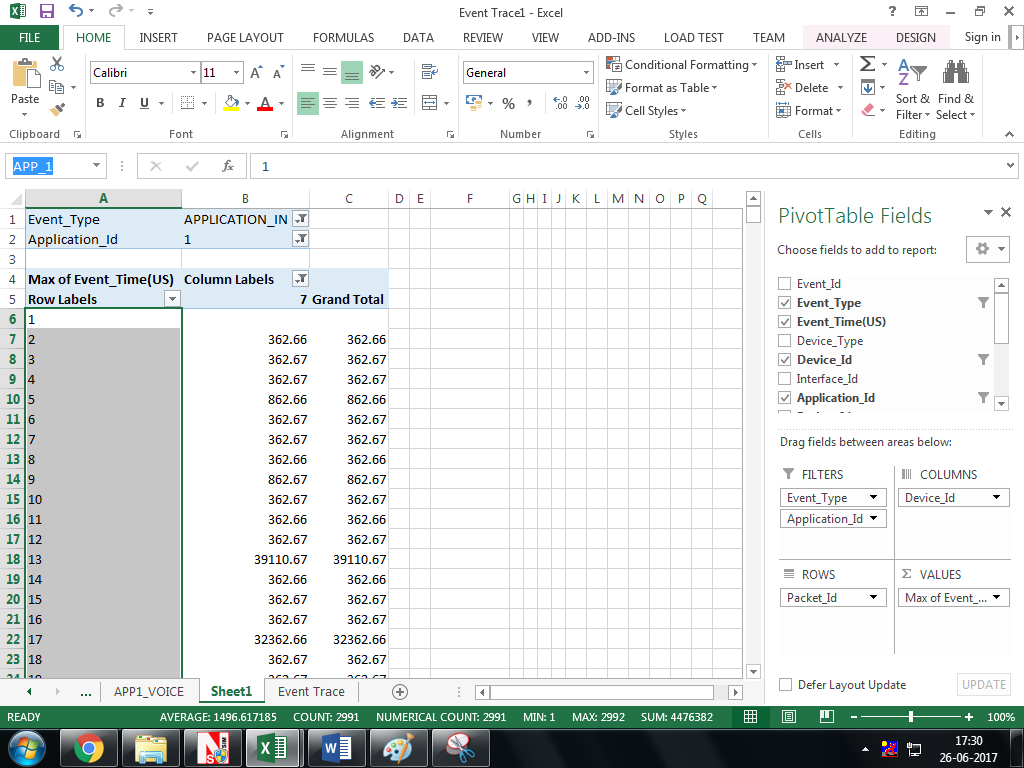
1. Selcet one cell in **Columns Labels** and **right click** then select **Show Values As**, then select **Difference From,**

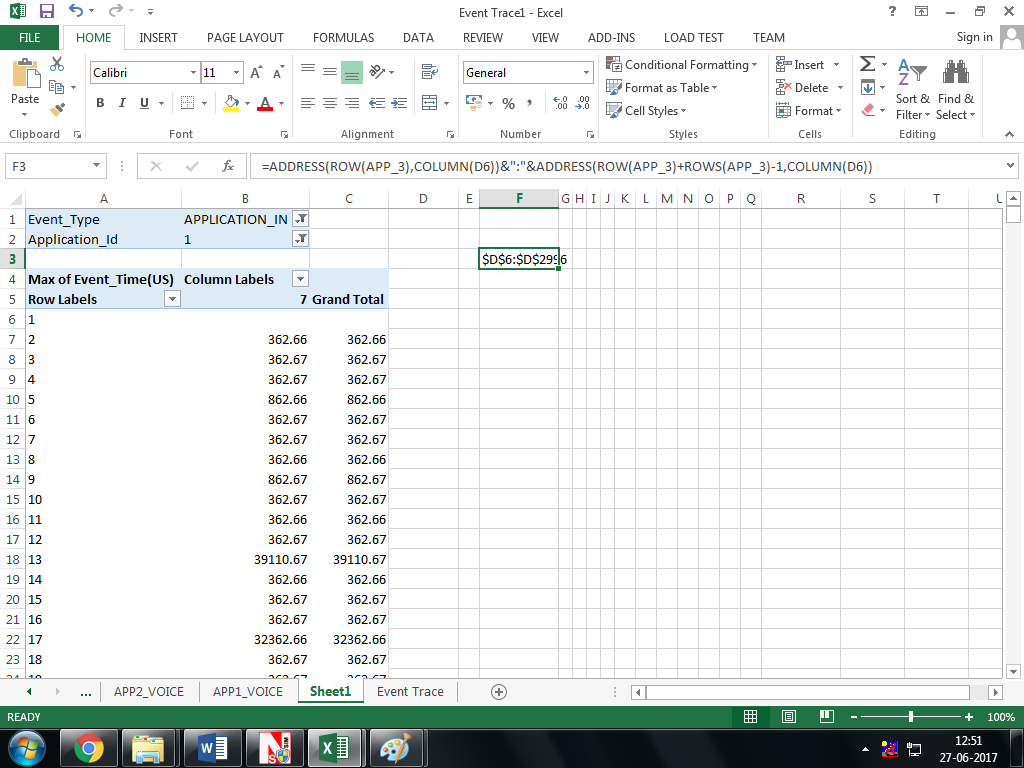


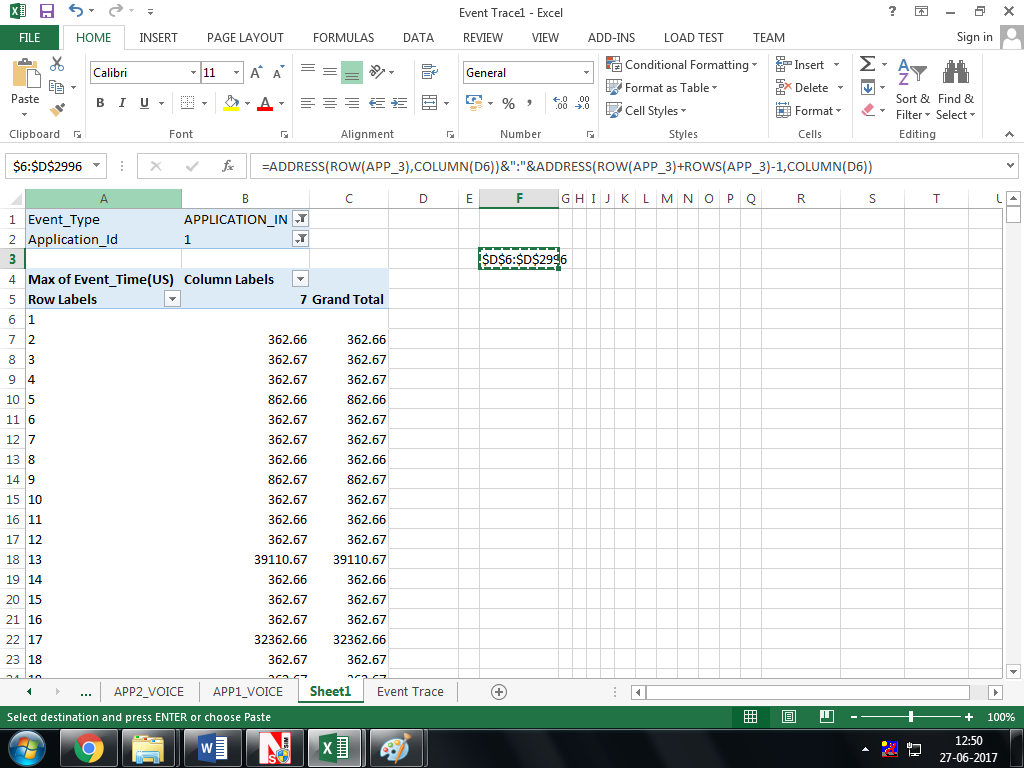
1. Then a window named **Show Values As** open up in that select **BaseField** as **Packet\_Id** and **Base Item** as **(previous)**

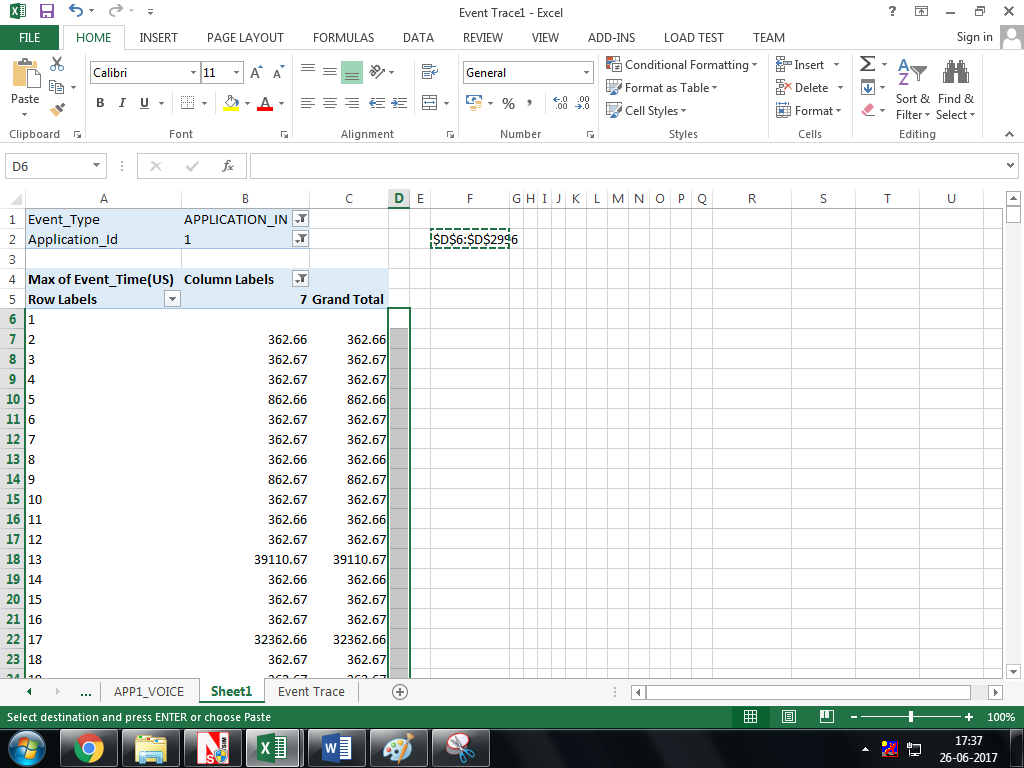


1. Place the mouse pointer just below **Row Labels** then left click**,** it will automatically selects the entire row of the **Row Labels** as shown below then in the **Name Box** name that row (APP\_1 in this case)

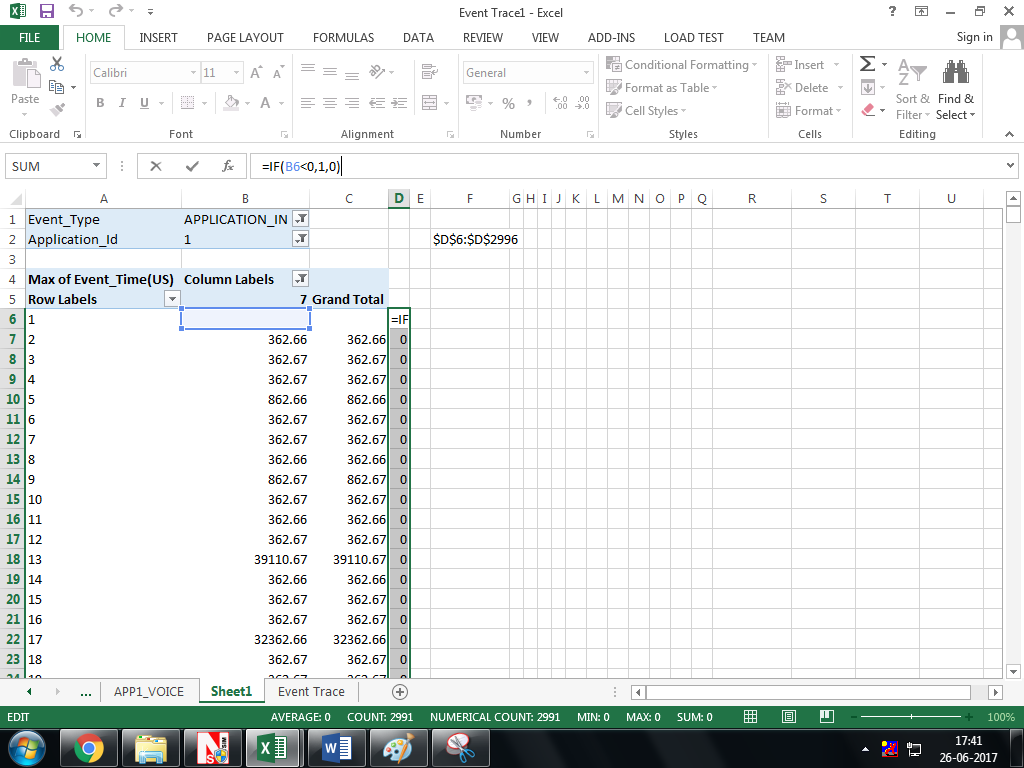


1. In an empty cell enter the formula **=ADDRESS(ROW(APP\_1),COLUMN(D6)) & ":" & ADDRESS(ROW(APP\_1)+ROWS(APP\_1)-1,COLUMN(D6)),** to get the row address
2. Then copy the address and paste in the **Name Box**, and **press Enter** this selects the rows of Column D. (Name Box is in the left top corner as shown)

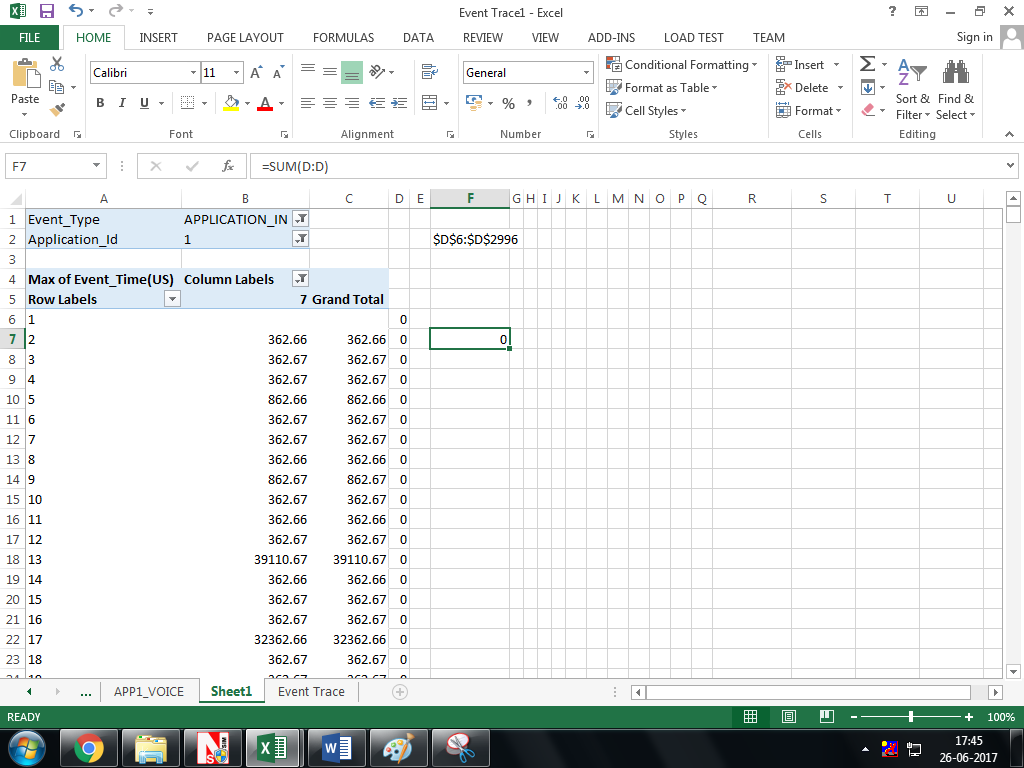




1. Now in the Formula box enter the formula =IF(B7<0,1,0) and press **CTRL + ENTER**

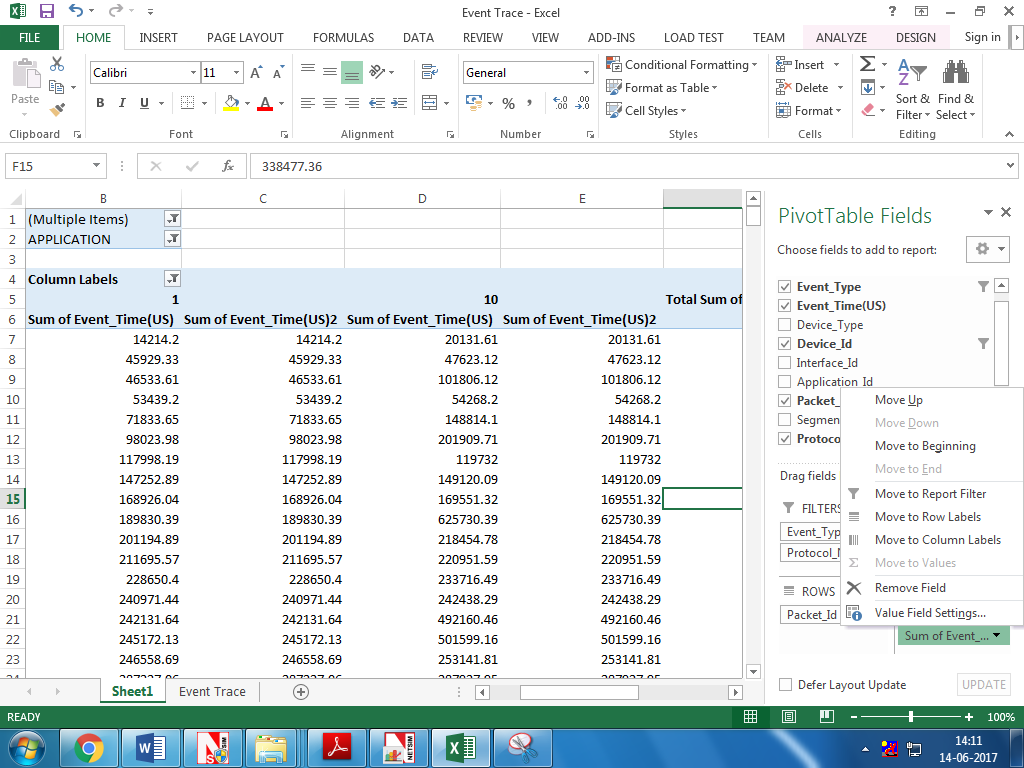


1. Then in enter the formula **= SUM(D:D)**  in empty cell which gives the number of out of order packets.

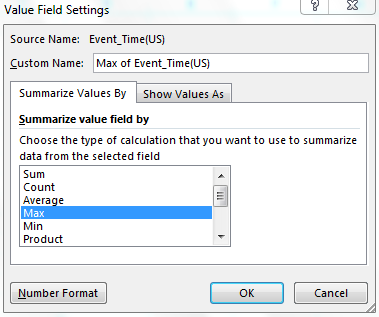


**CASE 2: SEGMENTATION**

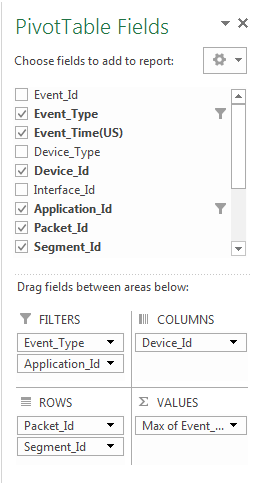
1. Drag and drop the **Event\_Type**, **Application\_Id** Fields into **FILTERS**, **Packet\_Id** and **Segment\_Id** into **ROWS** and **Device\_Id** into **COLUMNS.**
2. Drag and Drop **Event\_Time** Field into **VALUES**.
3. Click on the **Event\_Time** field in the VALUES and select the **Value Field Settings.**



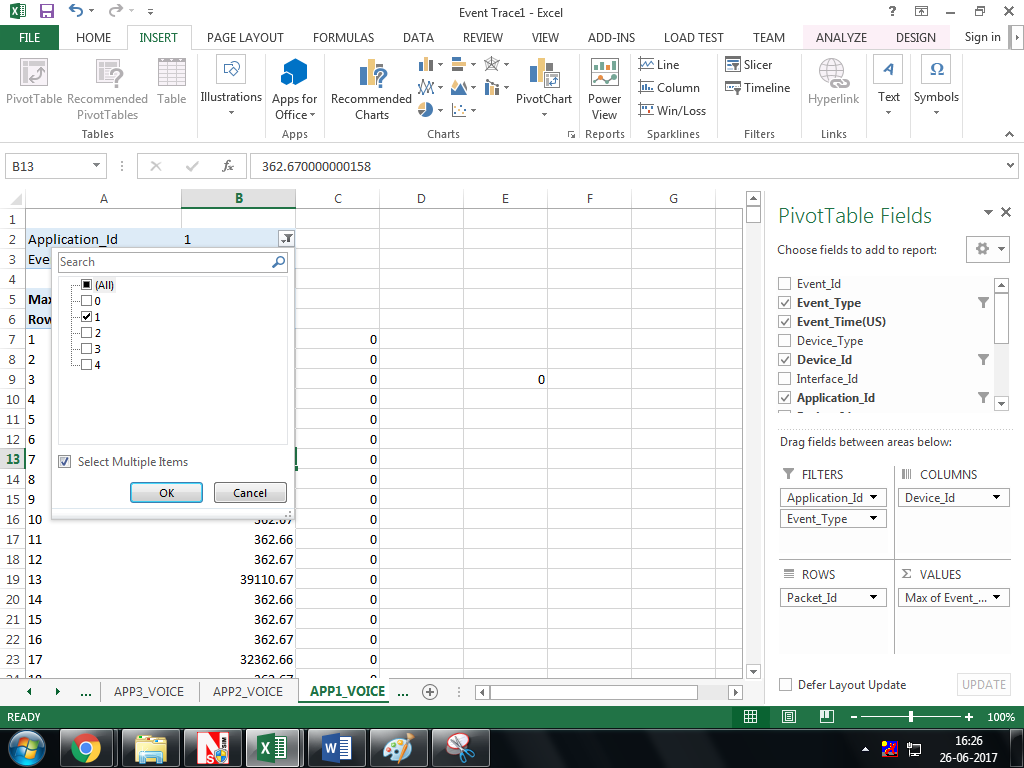
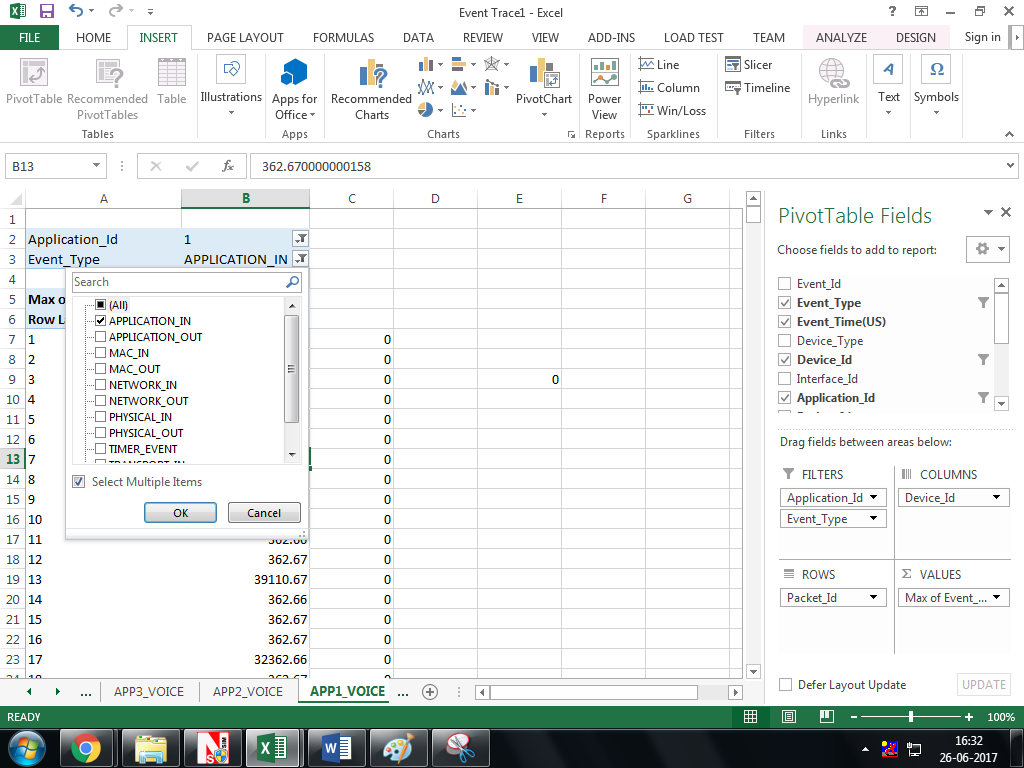
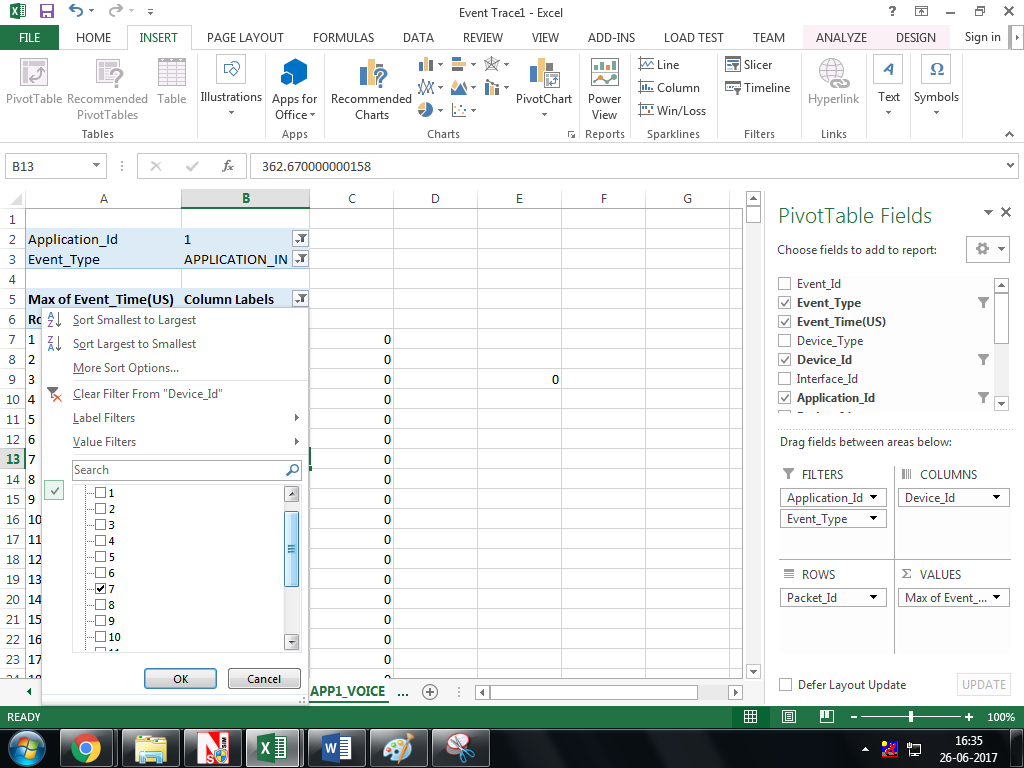
1. A window named **Value Field Settings** opens then select **Max** option and click **OK** button



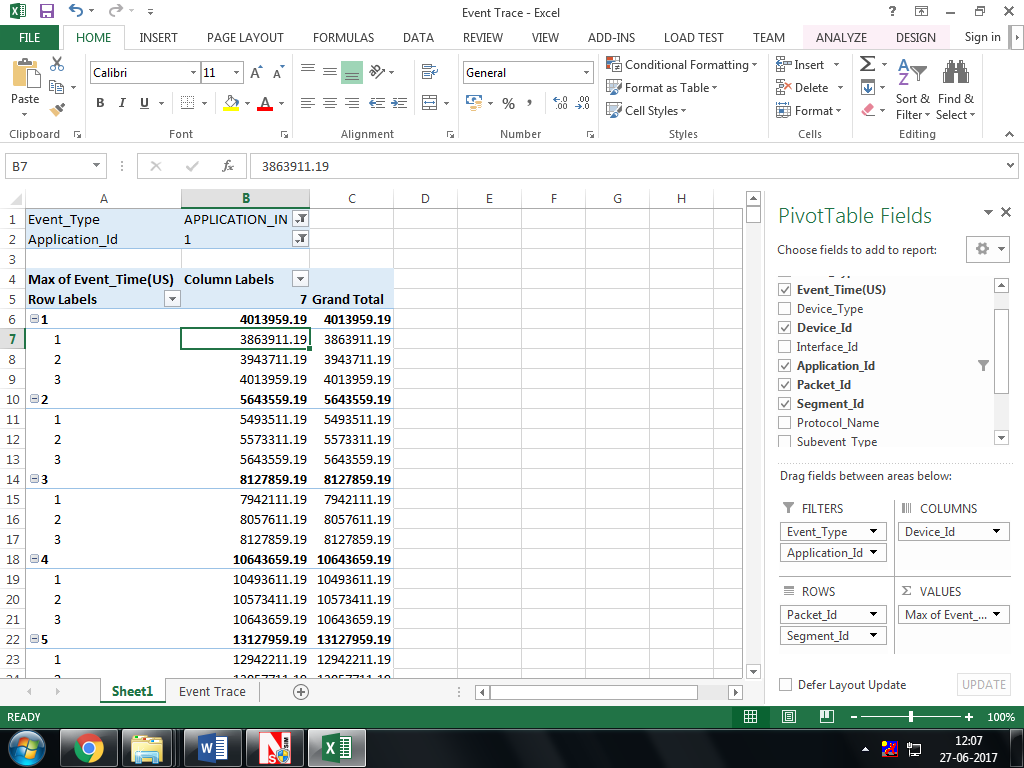
1. Then finally the **Pivot Table Fields** will be as shown below.



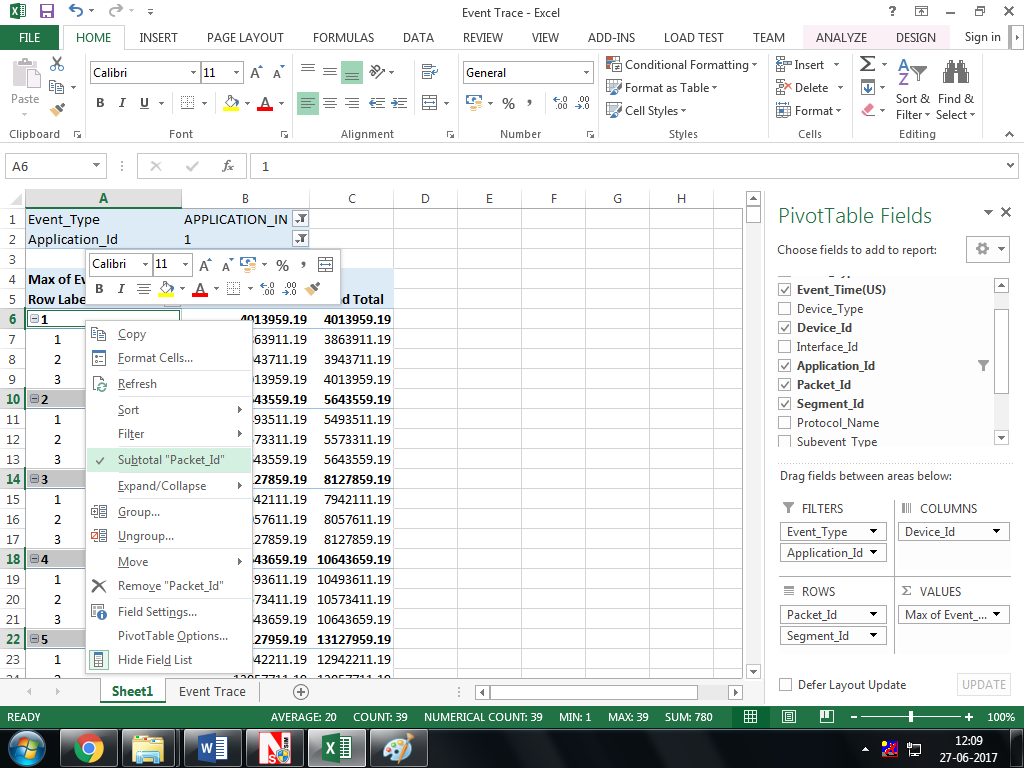
1. Select the **Application\_Id,** in **Event\_Type** select **APPLICATION\_IN** and in the **Column Labels** select **Destination\_Id**.



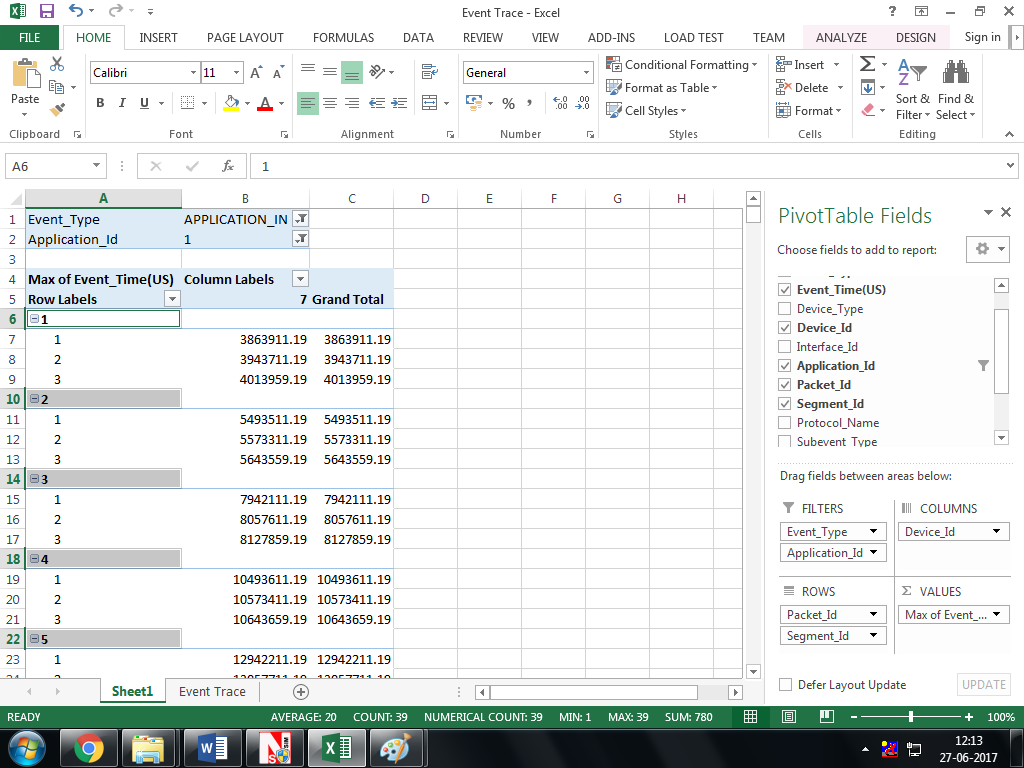
And the Pivot Table created will be as shown (7(in this case) is the Destination\_Id)



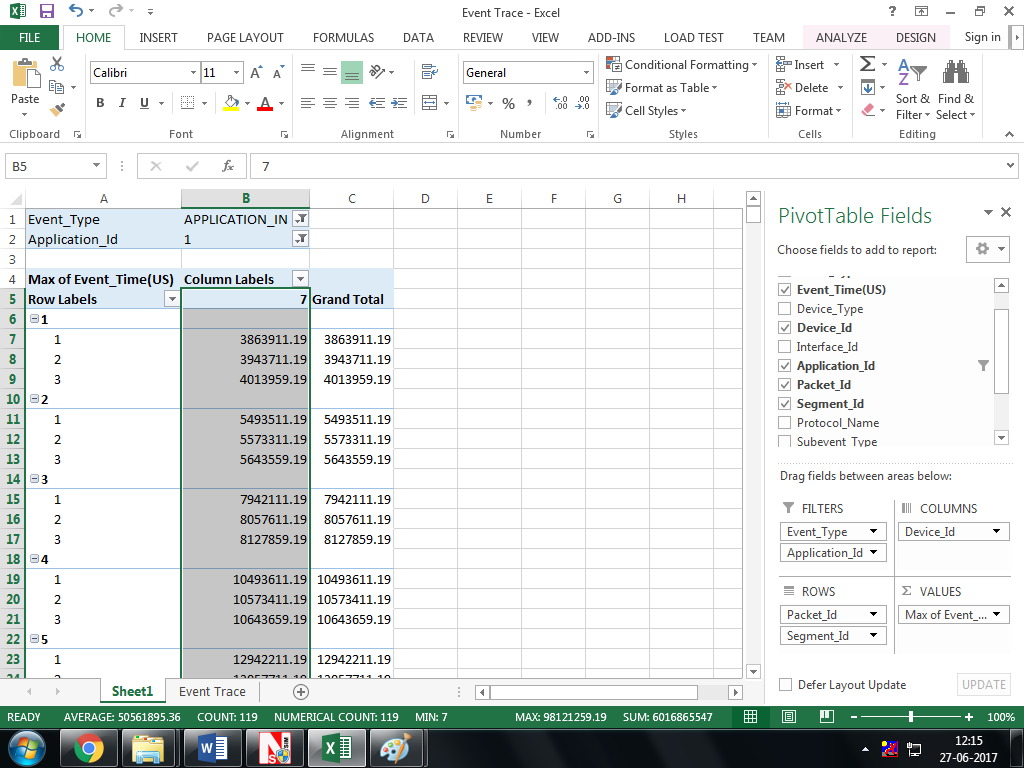
1. Select one cell in **Row Labels (Packet\_Id)** and **right click** and deselect the **Subtotal “Packet\_Id”**



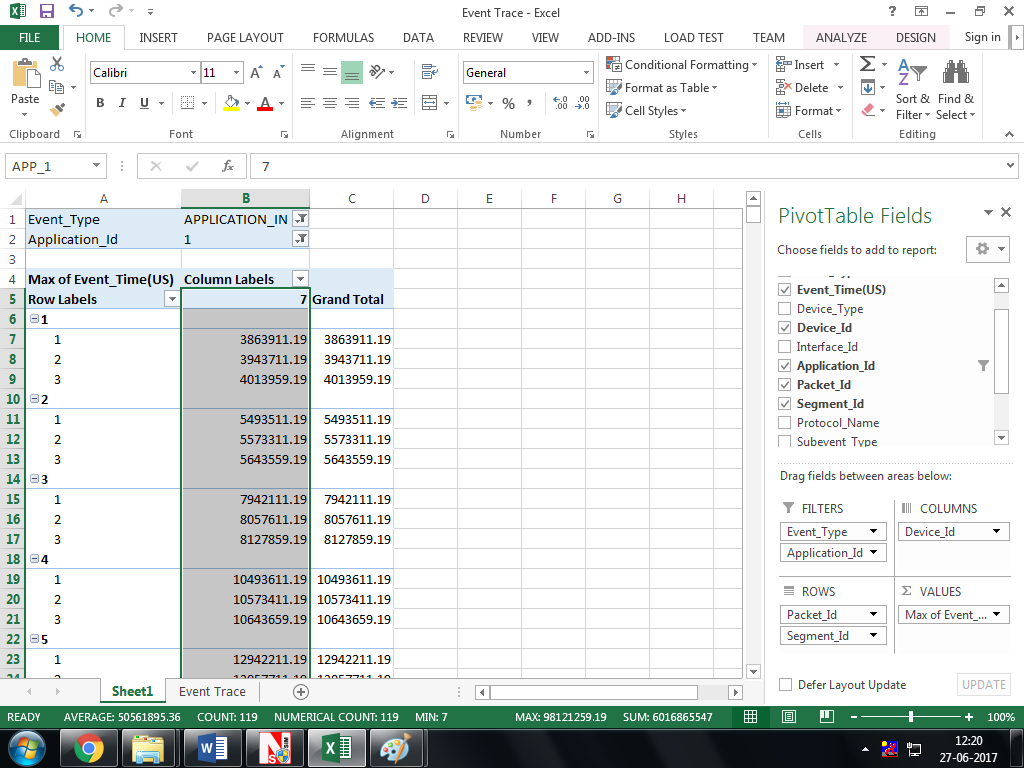
Then it removes the Subtotals as shown below



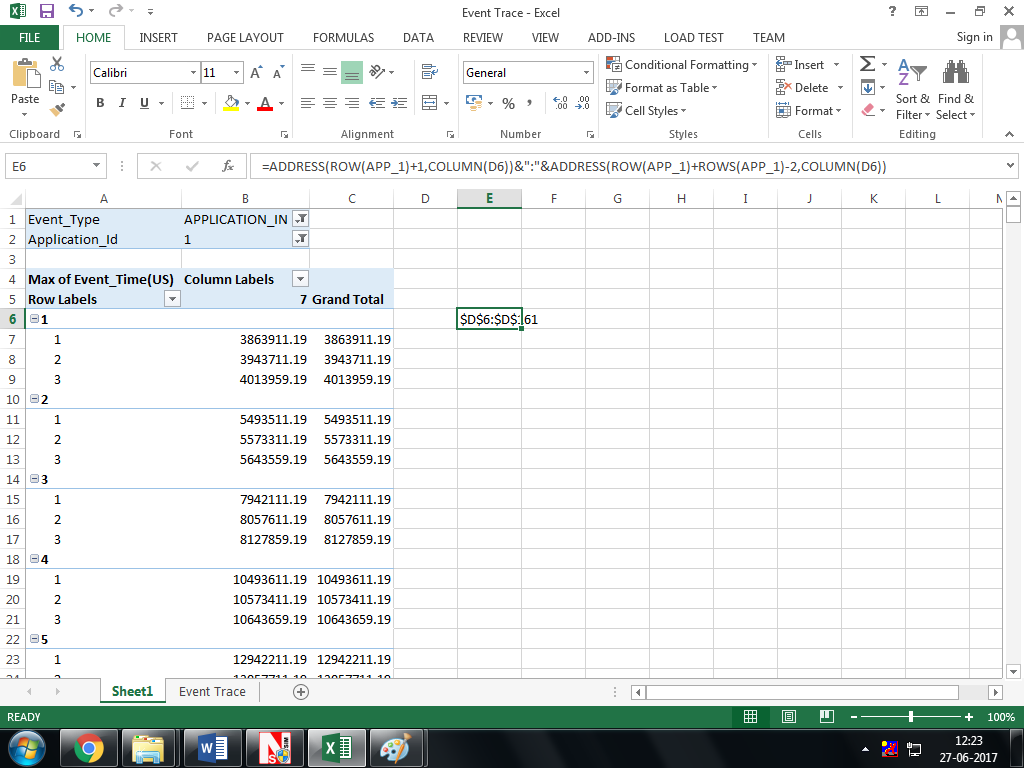
1. Place the mouse just below **Column Labels** cell and left click then it will selects the rows of the pivot table as shown below



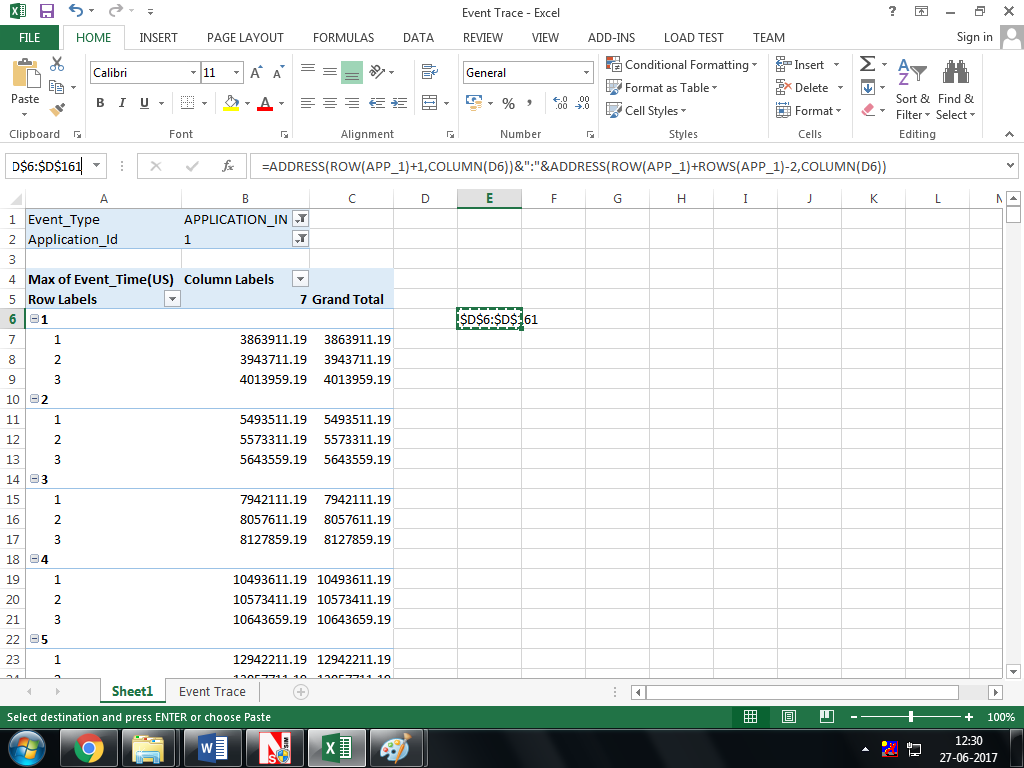
1. Then in the **Name Box** name the column (APP\_1 in this case), after that in an empty cell enter the formula to get the address of the empty rows Outside the pivot table



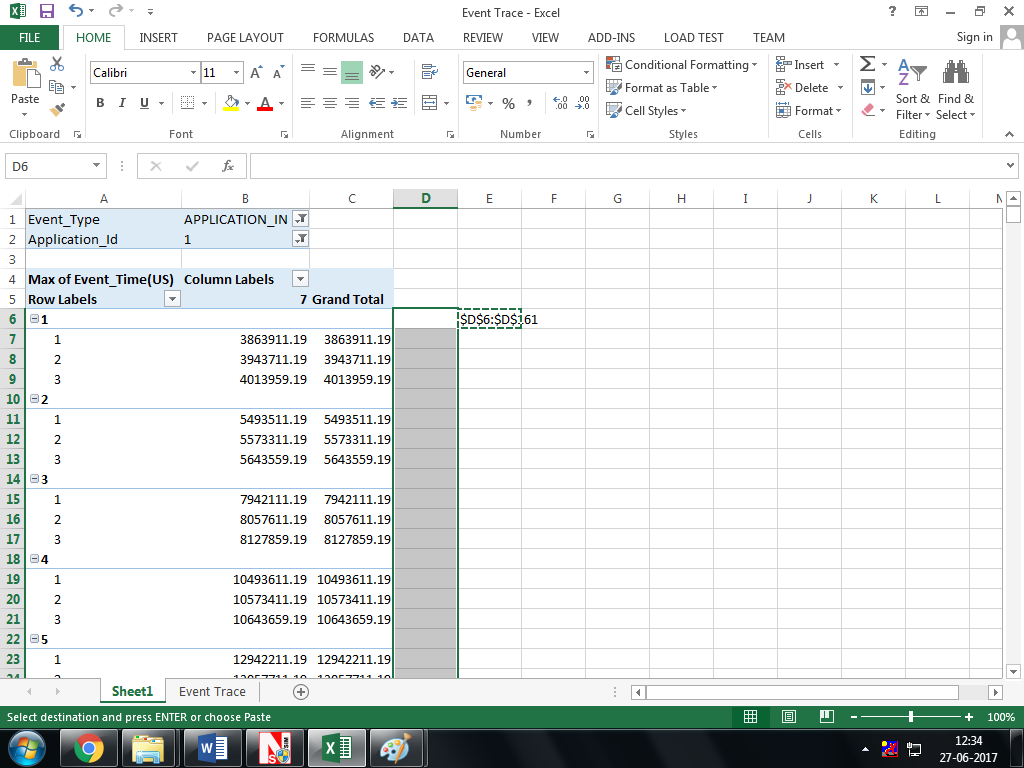
After that in an empty cell enter the formula **=ADDRESS(ROW(APP\_1)+1,COLUMN(D6))&":"&ADDRESS(ROW(APP\_1)+ROWS(APP\_1)-2,COLUMN(D6))** then press enter then you’ll get the address as shown below



Then copy the address and place it in **Name Box** as shown below (Name Box is at the left top corner as shown below)



And press enter it will selects the Column D and Rows that are filled as shown



Then in the formula box type the formula **=IF(B6<>0,IF(B5<>0,IF(B6<B5,1,0),IF(B6<B4,1,0)),0)** and press **CTRL + ENTER,** it will fill the column with 0 and 1 , 1 if the current packet arrived before the previous packet that means it is an out of order packet , “0” when the packet arrived after the previous packet.

To get the Number of out of order packets enter the formula **=SUM(D:D)** (0 in this case)

