

Als we de originele data van Jan dirk pakken hebben we alles in de eerste kolom staan zoals hierbeneden staat.

Datum (dd/MMM/yy),Tijd,LuchtDistributieGroep VAV11 2e verdieping-MeasAirflow 2.008 (B2.06a) Spreekkamer {590162} average,LuchtDistributieGroep VAV11 2e verdieping									
01-Jul-12,0:00:00,,,,,,,,,,,,,	23.888909,,,,,,,,,	1359512578,22.43,23.325,,,	412.166667,-0.286333,,0						
01-Jul-12,1:00:00,,,,,,,,,,,,,	23.899667,,,,,,,,,	1359515029,22.241667,23.203333,,,	411.454545,-0.282,,0						
01-Jul-12,2:00:00,,,,,,,,,,,,,	23.901333,,,,,,,,,	1359517408,22.108333,23.126667,,,	411.666667,-0.284364,,0						
01-Jul-12,3:00:00,,,,,,,,,,,,,	23.905417,,,,,,,,,	1359519899,22.011667,23.015,,,	411.333333,-0.282,,0						
01-Jul-12,4:00:00,,,,,,,,,,,,,	23.905167,,,,,,,,,	1359522410,21.893636,22.95,,,	410.083333,-0.286417,,0						
01-Jul-12,5:00:00,,,,,,,,,,,,,	23.898182,,,,,,,,,	1359524902,21.818333,22.906364,,,	411.75,-0.28625,,0						
01-Jul-12,6:00:00,,,,,,,,,,,,,	23.9045,,,,,,,,,	1359527413,21.795,22.838333,,,	410.272727,-0.283273,,0						
01-Jul-12,7:00:00,,,,,,,,,,,,,	23.894667,,,,,,,,,	1359529904,21.843333,22.833333,,,	408.833333,-0.273917,,0						
01-Jul-12,8:00:00,,,,,,,,,,,,,	23.8745,,,,,,,,,	1359532377,22.163333,22.97,,,	408.916667,-0.270333,,0						
01-Jul-12,9:00:00,,,,,,,,,,,,,	23.861,,,,,,,,,	1359534888,22.537273,23.175,,,	408.833333,-0.271417,,0						
01-Jul-12,10:00:00,,,,,,,,,,,,,	23.845667,,,,,,,,,	1359537379,23.48,23.765,,,	408.75,-0.277727,,0						
01-Jul-12,11:00:00,,,,,,,,,,,,,	23.875917,,,,,,,,,	1359539871,24.738333,24.536667,,,	409.454545,-0.285667,,0						
01-Jul-12,12:00:00,,,,,,,,,,,,,	24.031333,,,,,,,,,	1359542478,24.696667,24.671667,,,	409.333333,-0.286333,,0						
01-Jul-12,13:00:00,,,,,,,,,,,,,	24.148455,,,,,,,,,	1359545353,25.151667,24.97,,,	406.333333,-0.2785,,0						
01-Jul-12,14:00:00,,,,,,,,,,,,,	24.21125,,,,,,,,,	1359548055,24.575455,24.663333,,,	406.583333,-0.278417,,0						
01-Jul-12,15:00:00,,,,,,,,,,,,,	24.139,,,,,,,,,	1359550873,24.505,24.608333,,,	405.25,-0.282455,,0						
01-Jul-12,16:00:00,,,,,,,,,,,,,	24.180583,,,,,,,,,	1359554073,24.588333,24.636667,,,	407.636364,-0.284667,,0						
01-Jul-12,17:00:00,,,,,,,,,,,,,	24.278182,,,,,,,,,	1359557217,24.655,24.680909,,,	405.833333,-0.282917,,0						
01-Jul-12,18:00:00,,,,,,,,,,,,,	0,24.36025,,,,,,,,,	1359559843,24.665,24.673333,,,	404.916667,-0.29175,,0						
01-Jul-12,19:00:00,,,,,,,,,,,,,	24.394833,,,,,,,,,	1359562353,24.633333,24.591667,,,	405.583333,-0.289182,,0						
01-Jul-12,20:00:00,,,,,,,,,,,,,	24.3555,,,,,,,,,	1359564807,24.495455,24.55,,,	404.166667,-0.287333,,0						
01-Jul-12,21:00:00,,,,,,,,,,,,,	24.274,,,,,,,,,	1359567298,24.246667,24.423333,,,	404.090909,-0.282833,,0						
01-Jul-12,22:00:00,,,,,,,,,,,,,	24.203818,,,,,,,,,	1359569809,23.94,24.231667,,,	403.583333,-0.294333,,0						
01-Jul-12,23:00:00,,,,,,,,,,,,,	24.146667,,,,,,,,,	1359572301,23.608333,24.018333,,,	405.083333,-0.291583,,0						
02-Jul-12,0:00:00,,,,,,,,,,,,,	24.134667,,,,,,,,,	1359574787,23.291667,23.821667,,,	406.75,-0.286273,,0						
02-Jul-12,1:00:00,,,,,,,,,,,,,	24.1085,,,,,,,,,	1359577208,23.020909,23.678333,,,	410.083333,-0.28725,,0						
02-Jul-12,2:00:00,,,,,,,,,,,,,	2,24.097091,,,,,,,,,	1359579718,22.815,23.493333,,,	410.166667,-0.288,,0						
02-Jul-12,3:00:00,,,,,,,,,,,,,	24.0895,,,,,,,,,	1359582210,22.608333,23.356667,,,	409.636364,-0.284417,,0						

Na het runnen van het eerste deel van de code die hier onderstaat.

```
1 Sub Opsplitsing()
2
3 Application.ScreenUpdating = False
4
5 Dim a, b, c, d As Integer ' a=rij b=locatie binnen string c=colom d=vorige locatie ";"
6 Dim aantal As Integer
7 Dim inhoud As String
8
9 ' Waarden uit CSV moeten in colom 1 staan
10 a = 1
11 Do While Cells(a, 1) <> ""
12     c = 2
13     d = 1
14     aantal = Len(Cells(a, 1))
15     inhoud = CStr(Cells(a, 1))
16     For b = 1 To aantal
17         If Mid(inhoud, b, 1) = ";" Then ' Dit werkt alleen voor ";", als het anders is gesepareerd voeg het dan toe
18             Cells(a, c) = Mid(inhoud, d, (b - d))
19             c = c + 1
20             d = b + 1
21         ElseIf b = aantal Then
22             Cells(a, c) = Mid(inhoud, d, (b - d + 1))
23         End If
24     Next b
25     a = a + 1
26 Loop
27 Columns(1).EntireColumn.Delete
28
```

Het excel ziet erdan als volgt uit.

[illegible]

Vervolgens gaan alle kolommen met dezelfde naam worden verwijderd. Door de volgende stukje code.

```

29 ' eventueel code voor verwijderen dubbele colommen (afhankelijk van hoe constant colommenamen zijn)
30
31 c = 3
32 Do While Cells(1, c) <> ""
33     If IsNumeric(Left(CStr(Cells(1, c)), 3)) = False Then
34         Columns(c).EntireColumn.Delete
35         c = c - 1
36     End If
37     c = c + 1
38 Loop
39
40 Application.ScreenUpdating = True
41
42 End Sub
43

```

De excel sheet veranderd dan en er worden door de code 12 kolommen gedropt.

[illegible]

Tot slot gaan we de excel interpoleren, dit wil zeggen dat de vakken die leeg staan worden gevuld met het verschil van de eerst bekende waarde tegen die van het laatst bekende waarde. De code is als volgt:

```

Sub interpolatie()
Application.ScreenUpdating = False

Dim som, max, aantal, count, verschil, verschil_per_cel As Double
Dim begin_loc, a, b, c, opslag As Long 'begin_loc = eerste getal voor interpolatie, a=rij,c=colom,b=loop variabele

c = 3
Do While Cells(1, c) <> ""
aantal = Application.WorksheetFunction.CountIf(Range(Cells(2, c), Cells(21, c)), "<>" & "")
' MsgBox (aantal)
begin_loc = 0

If aantal > 10 Then ' controle op aantal ingevulde cellen
a = 2
Do While Cells(a, 1) <> ""
If Cells(a, c) = "" And IsNumeric(Cells(a - 1, c)) = True And Application.WorksheetFunction.CountIf(Range(Cells(a, c), Cells(a + 20, c)), "<>" & "") > 0
count = 0
Do While Cells(a, c) = ""
count = count + 1
a = a + 1
Loop

verschil = Cells(a, c) - Cells(a - count - 1, c) 'verschil tussen laatst gevulde en eerstvolgend gevulde cel

begin_loc = a - count ' locatie laatst gevulde cel

verschil_per_cel = verschil / (count + 1) ' liniair verschil

For a = begin_loc To begin_loc + count - 1
Cells(a, c) = Cells(a - 1, c) + verschil_per_cel
Next a
Cells(a, c) = (Cells(a - 1, c) + Cells(a + 1, c)) / 2
Elseif Cells(a, c) = "" And Cells(a - 1, c) <> "" Then
Cells(a, c) = Cells(a - 1, c)
Elseif Cells(a, c) = "" And Cells(a + 1, c) <> "" Then
Cells(a, c) = Cells(a + 1, c)
Elseif Cells(a, c) = "" And IsNumeric(Cells(a - 1, c)) = False Then
Cells(a, c) = Cells(a + 1, c)
Elseif Application.WorksheetFunction.CountIf(Range(Cells(a, c), Cells(a + 20, c)), "<>" & "") = 0 Then
d = a
Do While Cells(d, c) = "" And Cells(1, c) <> ""
d = d + 1

```

Tot slot ziet het excel er als volgt uit:

[illegible]

Nu is de code schoon gemaakt en is het duidelijker wat er gebeurt in met de data dat erin staat.
Hierdoor kan je ook makkelijker anomalieën ontdekken.