



Geographic Information System

Vector Data – Part I Lab Practice

Dr. Chan, Chun-Hsiang
Department of Geography
National Taiwan Normal University



Outline

- Download Datasets
- Display XY
- Join & Spatial Join
- Add Field & Data Types
- Select by Attribute
- Select by Location
- Calculate Geometry
- Calculate Field
- Symbology



Procedure

- Today, we would like to demonstrate a case:
 - Show the relationship between population density and YouBike 2.0 rental data in Taipei City
- You will learn:
 - 1) Data integration: join and spatial join
 - 2) Calculation: calculate field and calculate geometry
 - 3) Data selection
 - 4) Symbology

Dataset Download

Set CRS to **TWD97TM2 Taiwan**

Download Datasets

資料與供應資訊: 113年6月行政區人口統計_村里_臺北市

資料類型:	行政區統計
資料分類:	人口/人口概況
取得時間:	113/07/15
權責單位:	內政部統計處
資料格式:	CSV 格式
資料集名稱:	行政區人口統計
資料集摘要:	各統計期底之全國縣市、鄉鎮市區、村里之人口統計統計資料，內容為戶數、人口數、男性人口數、女性人口數。
備註:	
供應人資訊:	內政部統計處管理者
供應人單位:	內政部統計處
供應人電話:	02-23565364
是否對外公開:	公開
只公開特定對象:	否
是否需申請:	不需申請
檔案下載或申請:	CSV下載
下載次數:	23
開放服務連結:	JSON XML GeoJSON(TWD97) GeoJSON(WGS84)

鄉鎮市區界線(TWD97經緯度)

我國各鄉(鎮、市、區)行政區域界線圖資

評分此資料集:

☆☆☆☆

平均 3.87 (246 人次投票)

瀏覽次數: 240911 下載次數: 76810 意見數: 45

列印

主要標位說明 *粗體標位為資料標準標位	TOWNID、TOWNCODE、COUNTYNAME、TOWNNAME、TOWNENG、COUNTYID、COUNTYCODE
資料資源下載網址	SHP 檢視資料 鄉(鎮、市、區)界線(TWD97經緯度)SHP格式
提供機關	內政部國土測繪中心
提供機關聯絡人姓名	吳嘉隆先生 (04-22522966#340)
更新頻率	不定期更新
授權方式	政府資料開放授權條款-第1版
計費方式	免費
上架日期	2015-10-07
資料集上架方式	系統介接程式

Download Datasets

YouBike2.0臺北市公共自行車即時資訊

YouBike臺北市公共自行車即時資訊介紹網址為https://tcgbusfs.blob.core.windows.net/dotapp/youbike/v2/youbike_immediate.json，檔案格式為json檔。

評分此資料集：



平均 4.12 (43 人次投票)

臺北捷運車站資料服務

臺北捷運車站資料服務-連線交通部平臺

評分此資料集：



平均 0.00 (0 人次投票)

瀏覽次數：38466 下載次數：10869 意見數：13 交通運輸

列印

主要欄位說明 *粗體欄位為資料標準欄位	sno、sna、total、available_rent_bikes、sarea、mday、latitude、longitude、ar、sareaen、snaen、aren、available_return_bikes、act、srcUpdateTime、updateTime、infoTime、infoDate
資料資源下載網址	JSON 檢視資料 YouBike2.0臺北市公共自行車即時資訊
提供機關	臺北市政府交通局
提供機關聯絡人姓名	陳心思 (02-27208889#6877)
更新頻率	每1分
授權方式	政府資料開放授權條款-第1版
計費方式	免費
上架日期	2020-10-20
資料集上架方式	系統介接程式

瀏覽次數：1950 下載次數：314 意見數：0

主要欄位說明 *粗體欄位為資料標準欄位	SEQNO 、StationID、StationName、StationPosition、StationAddress、BikeAllowOnHoliday、 UpdateTime
資料資源下載網址	CSV 檢視資料 臺北捷運車站資料
提供機關	臺北大眾捷運股份有限公司
提供機關聯絡人姓名	張立偉 (02-25363001#8676)
更新頻率	不定期更新
授權方式	政府資料開放授權條款-第1版
計費方式	免費
上架日期	2020-10-14
資料集上架方式	系統介接程式

Download Datasets

政府資料開放平臺 DATA.GOV.TW

網站導覽   Language 小幫手 線上客服 會員登入

資料集 高應用價值主題專區 資料故事館 互動專區 消息專區 諮詢小組 授權條款 關於平臺

資料集 / 村里界圖(TWD97_121分帶)

村里界圖(TWD97_121分帶)

全國村(里)界線

評分此資料集：
☆☆☆☆☆
平均 4.07 (29 人次投票)

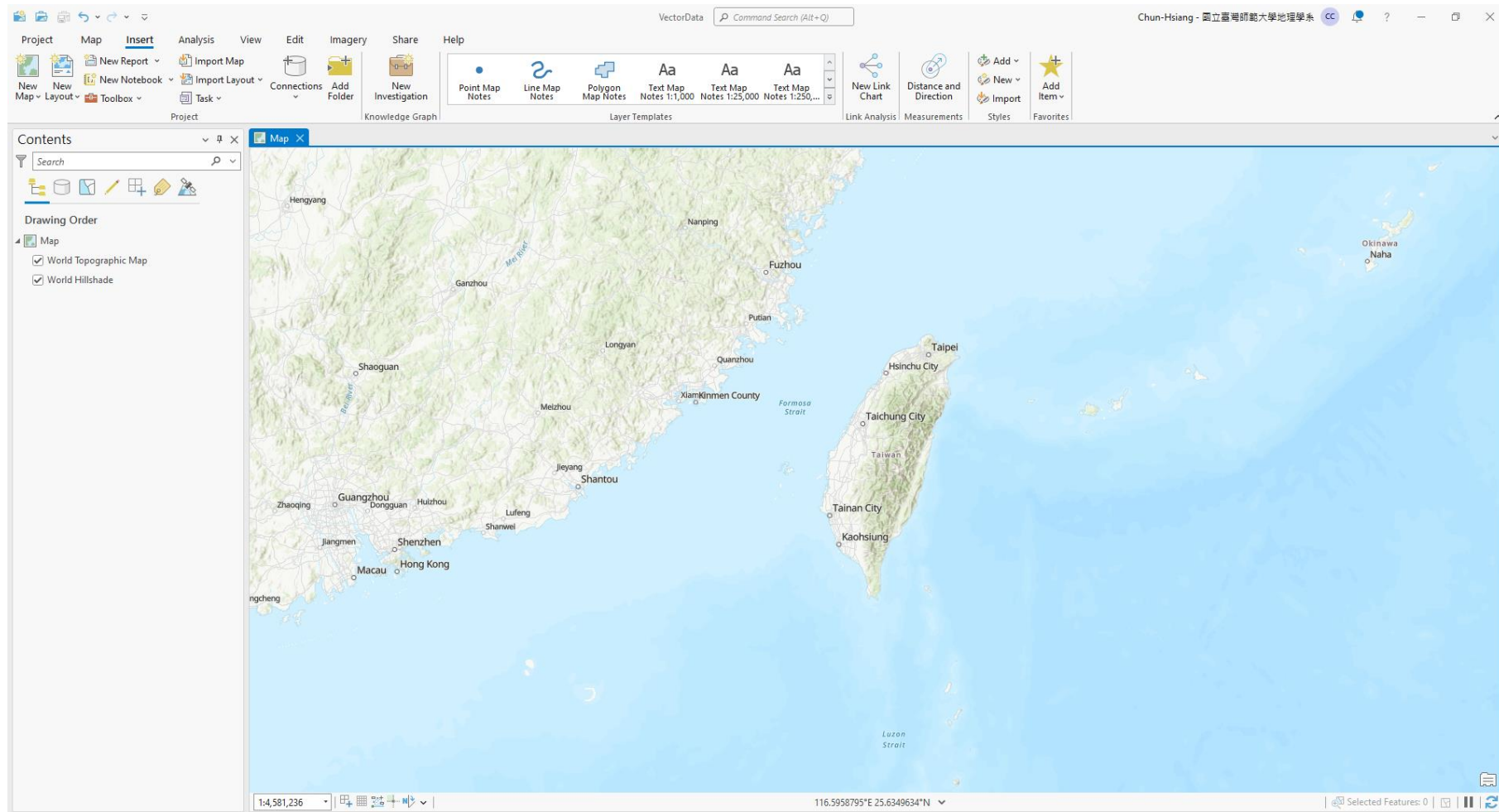
瀏覽次數：71799 下載次數：16875 意見數：18 空間資訊 列印

主要標位說明 *粗體標位為資料標準標位	VILLCODE、COUNTYNAME、TOWNNAME、VILLNAME、VILLENG、COUNTYID、COUNTYCODE、TOWNID、TOWNCODE、NOTE
資料資源下載網址	↓ SHP 檢視資料 村里界圖(TWD97_121分帶)
提供機關	內政部國土測繪中心
提供機關聯絡人姓名	吳嘉隆先生 (04-22522966#340)
更新頻率	不定期更新
授權方式	政府資料開放授權條款-第1版
計費方式	免費
上架日期	2014-03-13
資料集上架方式	系統介接程式

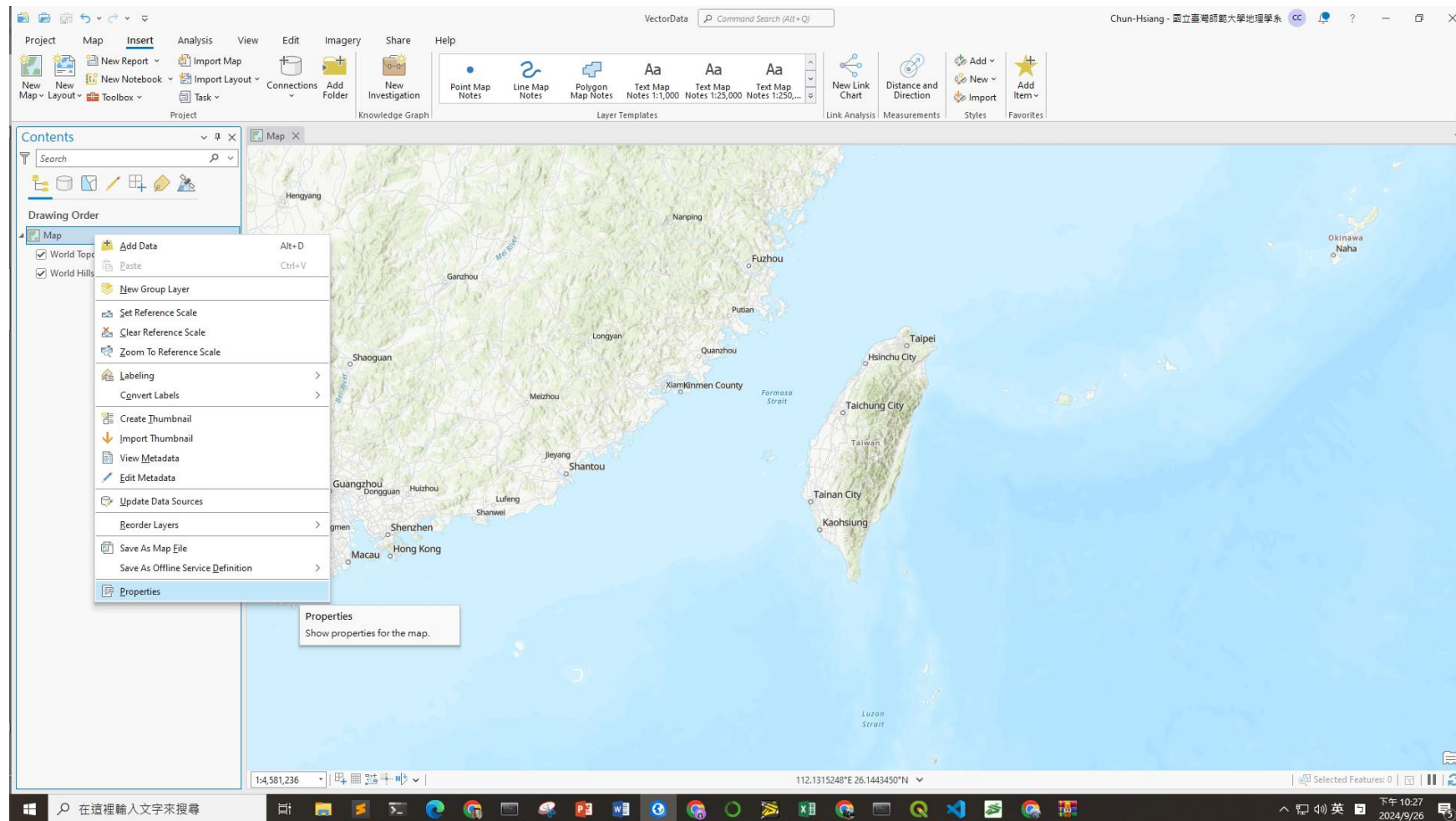
Map Settings

Set CRS to **TWD97TM2 Taiwan**

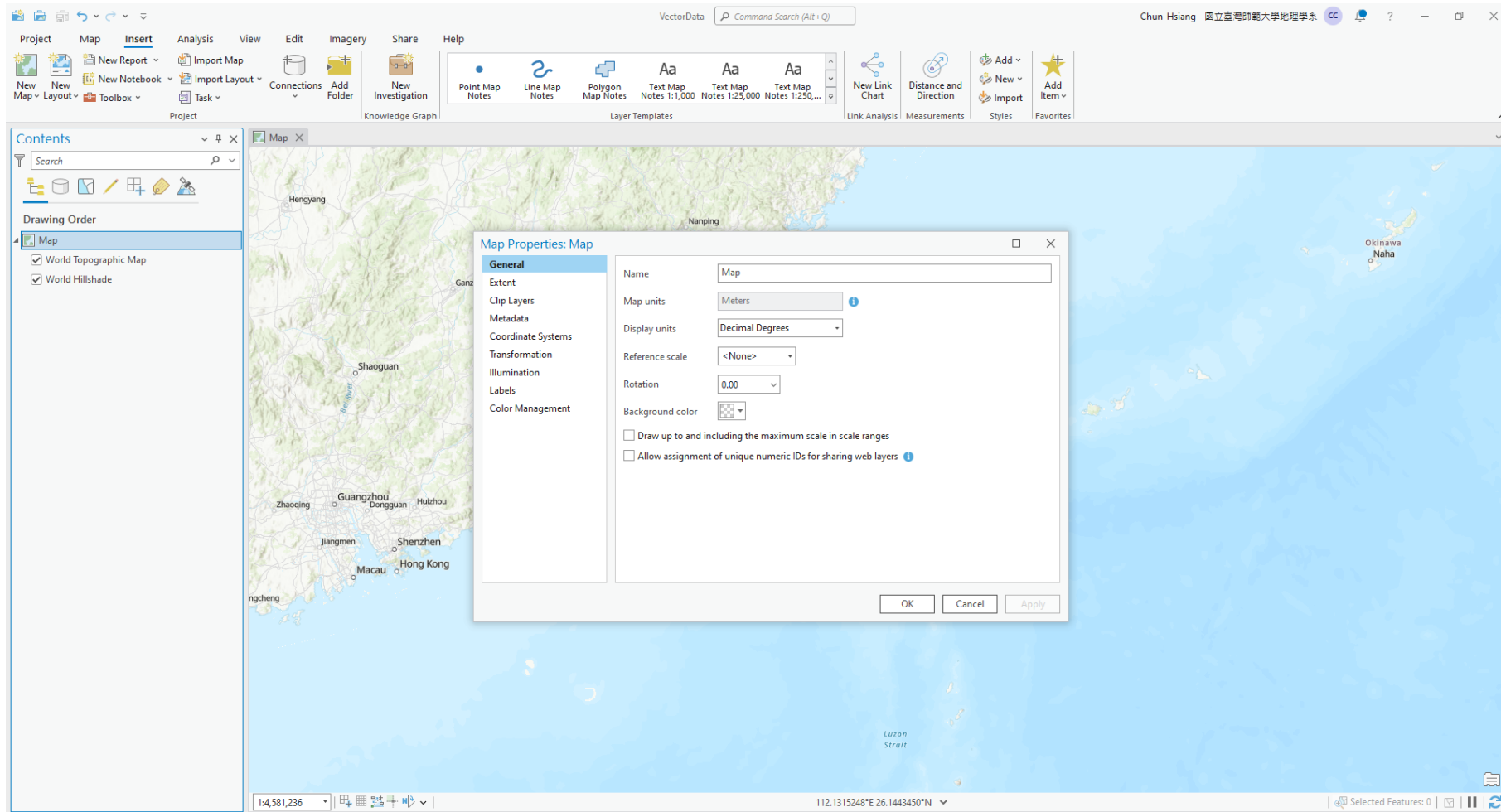
Open ArcGIS Pro



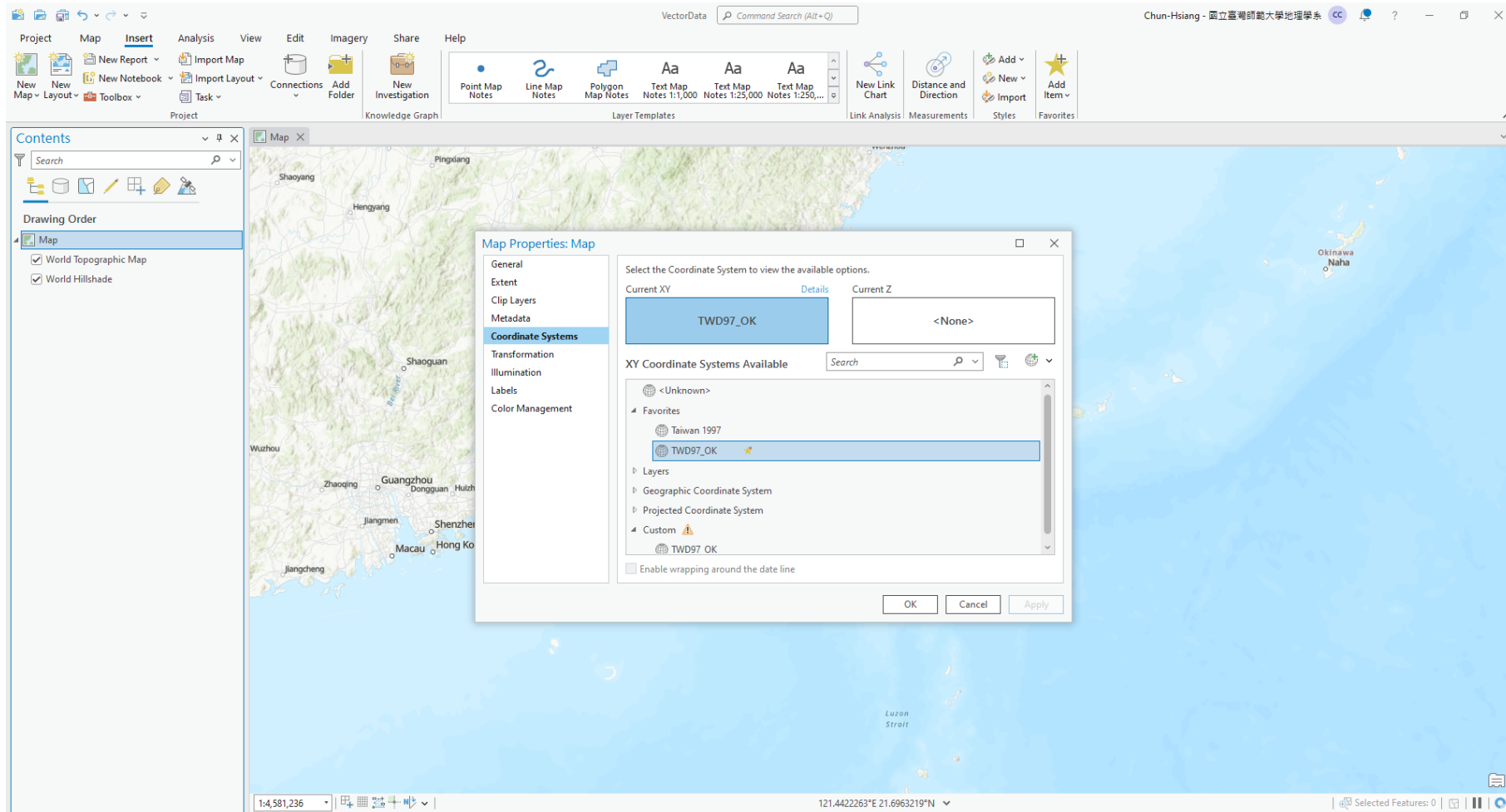
Open Properties



See Map Properties Map/ Coordinate System



Choose the self-defined TWD97TM2

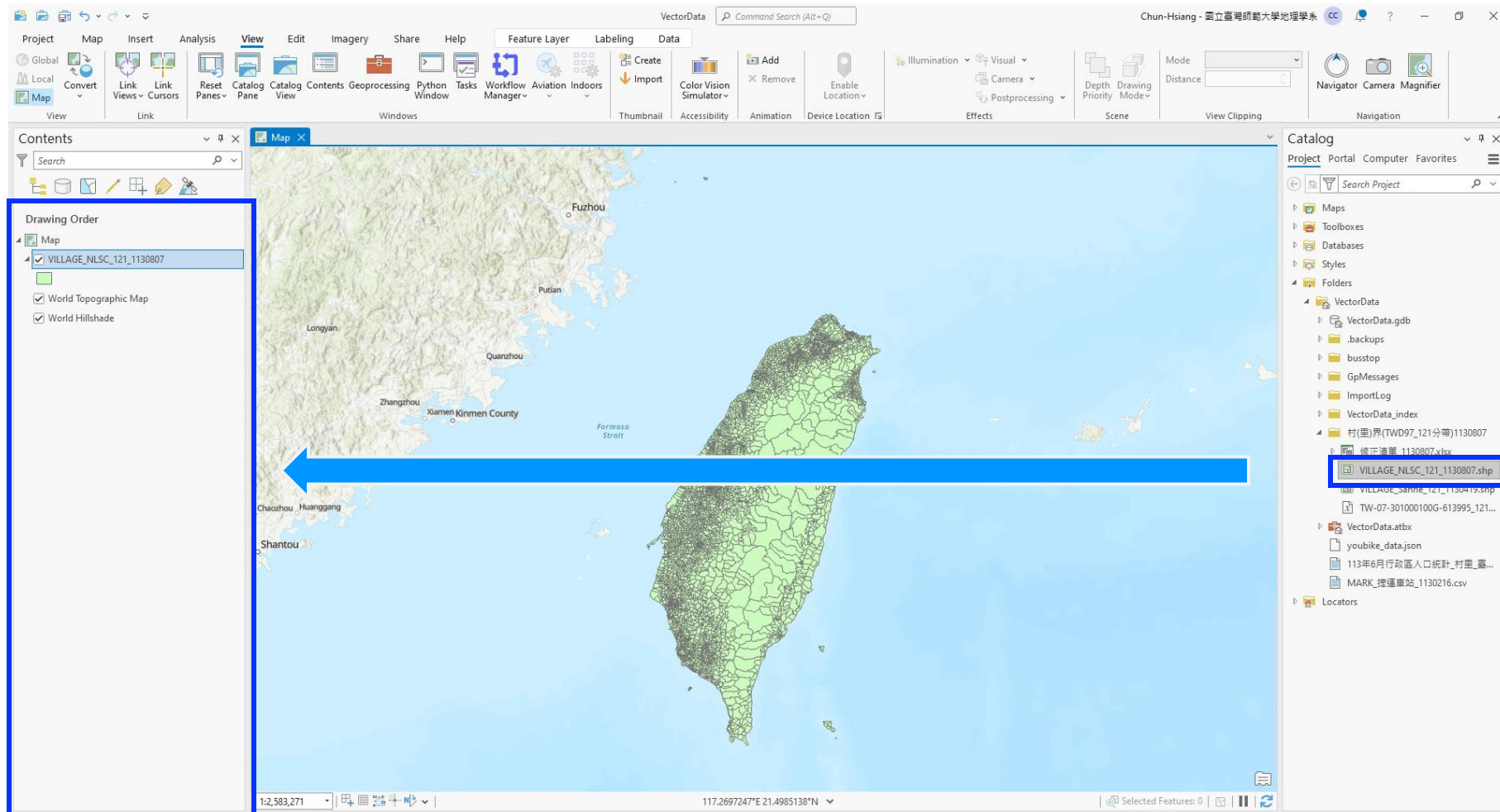


Load Data

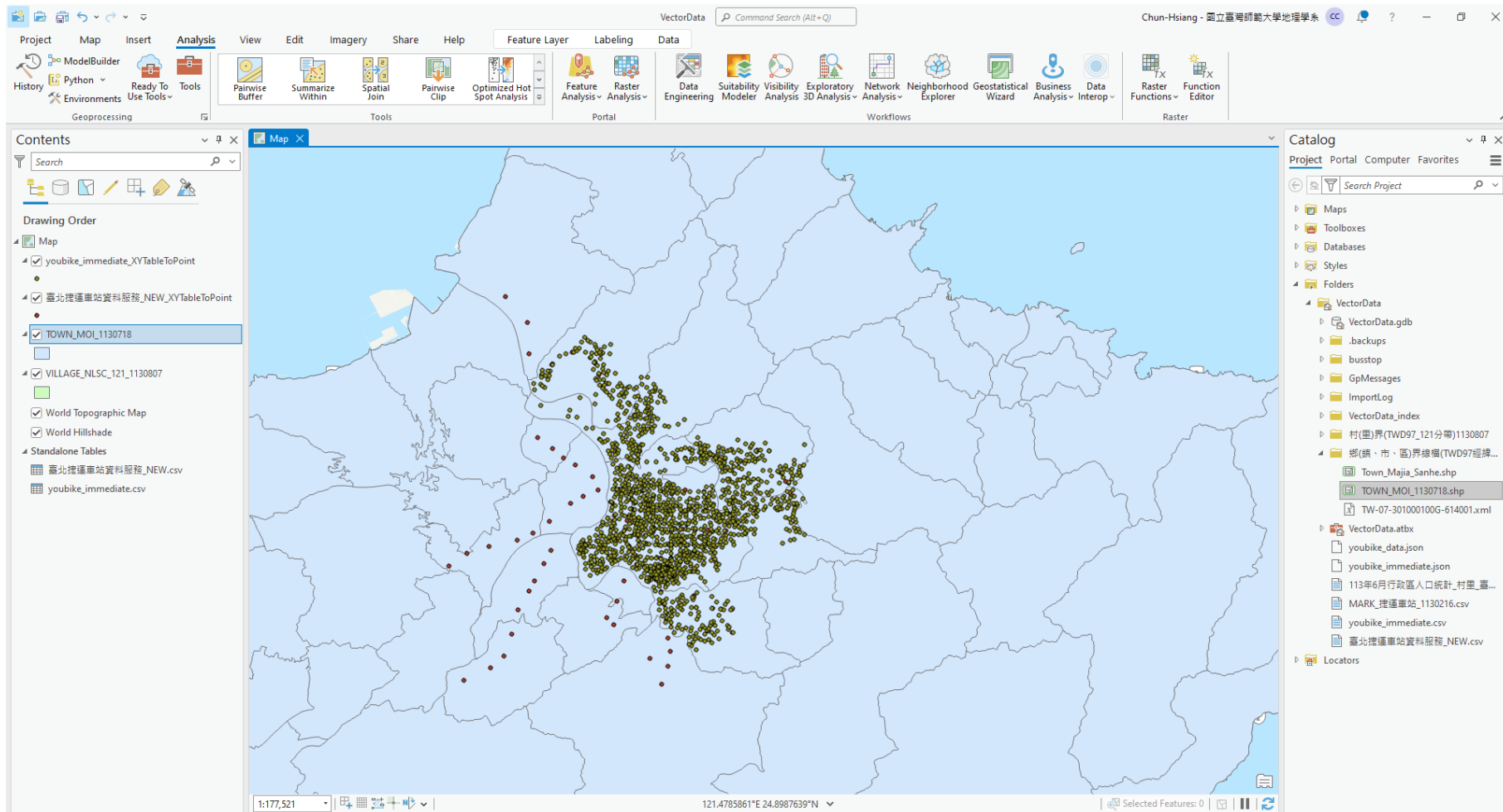
csv, shapefile, and JSON file

Add Taiwan Village Shapefile (村里界圖)

For a shapefile, ...



Load Taiwan Town Shapefile (鄉鎮市區界)



Preprocessing Taipei Metro Station

For a csv without correct format, ...

The screenshot shows an Excel spreadsheet with the following data:

SEQNO	StationID	StationName	StationPosition	StationAddress
1	'BR01'	'(動物園,Taipei Zoo)'	'{121.579501,24.998205}'	'11656臺北市文山'
2	'BR02'	'(木柵,Muzha)'	'{121.573127,24.99824}'	'11656臺北市文山'
3	'BR03'	'(萬芳社區,Wanfang Community)'	'{121.568088,24.99857}'	'11653臺北市文山'
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	'{121.558092,24.99932}'	'11696臺北市文山'
5	'BR05'	'(辛亥,Xinhai)'	'{121.5570455,25.005455}'	'11694臺北市文山'
6	'BR06'	'(麟光,Linguang)'	'{121.5588335,25.018495}'	'10676臺北市大安'
7	'BR07'	'(六張犁,Liuzhangli)'	'{121.55302,25.02381}'	'10674臺北市大安'
8	'BR08'	'(科技大樓,Technology Building)'	'{121.5434615,25.02612}'	'10667臺北市大安'
9	'BR09,R05'	'(大安,Daan)'	'{121.54237,25.033311}'	文湖線：10683臺 淡水信義線：1068
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	'{121.545026,25.041749}'	文湖線：10654臺北市大安區忠孝東路3段302號 板南線：1069臺北市大安區忠孝東路4段47號
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	'{121.544215,25.06085}'	'106臺北市中山區復興北路376號
12	'BR13'	'(松山機場,Songshan Airport)'	'{121.55201,25.0629075}'	'10576臺北市松山區敦化北路338號
13	'BR14'	'(大直,Dazhi)'	'{121.54629,25.02943}'	'10665臺北市中山區北安路531之1號

The 'StationPosition' column contains coordinates in a non-standard format, such as '{121.579501,24.998205}'. A callout box highlights this column and shows the extracted data:

StationPosition
'{121.579501,24.998205}'
'{121.573127,24.99824}'
'{121.568088,24.99857}'
'{121.558092,24.99932}'
'{121.5570455,25.005455}'
'{121.5588335,25.018495}'
'{121.55302,25.02381}'
'{121.5434615,25.02612}'
'{121.54237,25.033311}'
'{121.545026,25.041749}'
'{121.544215,25.06085}'
'{121.55201,25.0629075}'
'{121.54629,25.02943}'

Replace All Useless Symbols

The screenshot shows an Excel spreadsheet titled '臺北捷運車站資料服務_NEW.csv - Excel'. The spreadsheet contains a list of stations with the following columns: SEQNO, StationID, StationName, StationPosition, StationAddress, Bike Allow On Holiday, and Update Time. A context menu is open over the 'StationPosition' column, showing options like '尋找(F)...', '取代(R)...', '到(G) 取代 (Ctrl+H)', '註解(M)', '設定格式化的條件(O)', '常數(N)', '資料驗證(V)', '插入物件(I)', and '插入圖表(O)...'. The spreadsheet data is as follows:

SEQNO	StationID	StationName	StationPosition	StationAddress	Bike Allow On Holiday	UpdateTime
1	'BR01'	'{動物園,Taipei Zoo}'	'{121.579501,24.998205}'	'11656臺北市文山區新光路2段32號'	0	20170525
2	'BR02'	'{木柵,Muzha}'	'{121.573127,24.99824}'	'11656臺北市文山區木柵路4段135號'	0	20170525
3	'BR03'	'{萬芳社區,Wanfang Community}'	'{121.568088,24.99857}'	'11653臺北市文山區萬芳路60號'	0	20170525
4	'BR04'	'{萬芳醫院,Wanfang Hospital}'	'{121.558092,24.99932}'	'11696臺北市文山區興隆路3段113號'	0	20170525
5	'BR05'	'{辛亥,Xinhai}'	'{121.5570455,25.005455}'	'11694臺北市文山區辛亥路4段128號'	0	20170525
6	'BR06'	'{麟光,Linguang}'	'{121.5588335,25.018495}'	'10676臺北市大安區和平東路3段410號'	0	20170525
7	'BR07'	'{六張犁,Liuzhangli}'	'{121.55302,25.02381}'	'10674臺北市大安區和平東路3段168號'	0	20170525
8	'BR08'	'{科技大樓,Technology Building}'	'{121.5434615,25.02612}'	'10667臺北市大安區復興南路2段235號'	0	20170525
9	'BR09,R05'	'{大安,Daan}'	'{121.54237,25.033311}'	'文湖線：10683臺北市大安區信義路4段2號 淡水信義線：10658臺北市大安區信義路3段180號 文湖線：10654臺北市大安區忠孝東路3段302號 板南線：10691臺北市大安區忠孝東路4段47號'	0	20170525
10	'BR10,BL15'	'{忠孝復興,Zhongxiao Fuzing}'	'{121.545026,25.041749}'		0	20170525
11	'BR12'	'{中山國中,Zhongshan Junior High School}'	'{121.544215,25.06085}'	'10476臺北市中山區復興北路376號'	0	20170525
12	'BR13'	'{松山機場,Songshan Airport}'	'{121.55201,25.0629075}'	'10576臺北市松山區敦化北路338號'	0	20170525
13	'BR14'	'{大直,Dazhi}'	'{121.54679,25.07943}'	'10465臺北市中山區北安路534之1號'	0	20170525
14	'BR15'	'{創南路,Jiannan Rd.}'	'{121.5555825,25.08483}'	'10464臺北市中山區北安路798號'	0	20170525
15	'BR16'	'{西湖,Xihu}'	'{121.567227,25.08216}'	'11493臺北市內湖區內湖路1段256號'	0	20170525
16	'BR17'	'{港墘,Gangqian}'	'{121.57516,25.08007}'	'11446臺北市內湖區內湖路1段663號'	0	20170525
17	'BR18'	'{文德,Wende}'	'{121.5849995,25.078455}'	'11475臺北市內湖區文德路214號'	0	20170525
18	'BR19'	'{內湖,Neihu}'	'{121.594363,25.083675}'	'11489臺北市內湖區成功路4段186號'	0	20170525
19	'BR20'	'{大湖公園,Dahu Park}'	'{121.602214,25.083805}'	'11477臺北市內湖區成功路5段11號'	0	20170525
20	'BR21'	'{葫洲,Huzhou}'	'{121.6071455,25.07271}'	'11486臺北市內湖區康寧路3段16號'	0	20170525
21	'BR22'	'{東湖,Donghu}'	'{121.611535,25.067455}'	'11486臺北市內湖區康寧路3段235號'	0	20170525
22	'BR23'	'{南港軟體園區,Nangang Software Park}'	'{121.615,25.05992}'	'11568臺北市南港區經貿二路183號'	0	20170525
23	'BR24'	'{南港展覽館,Taipei Nangang Exhibition Center}'	'{121.616861,25.054919}'	'文湖線：11568臺北市南港區南港路1段32號 板南線：11568臺北市南港區研究院路1段1號'	1	20170525
24	'BL23'	'{南港展覽館,Taipei Nangang Exhibition Center}'	'{121.616861,25.054919}'		1	20170525
25	'R02'	'{象山,Xiangshan}'	'{121.570116,25.032395}'	'11080臺北市信義區信義路5段152號B1'	1	20170525
26	'R03'	'{台北101/世貿,Taipei 101/World Trade Center}'	'{121.563667,25.032865}'	'11049臺北市信義區信義路5段20號B1'	1	20170525
27	'R04'	'{信義安和,Xinyi Anhe}'	'{121.552326,25.033015}'	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
28	'R06'	'{大安森林公園,Daan Park}'	'{121.536151,25.033225}'	'10656臺北市大安區信義路3段100號B1'	1	20170525
29	'R07'	'{東門,Dongmen}'	'{121.528766,25.033894}'	'10650臺北市大安區信義路2段166號B1'	1	20170525
30	'R08,G10'	'{中正紀念堂,Chiang Kai-Shek Memorial Hall}'	'{121.518273,25.032767}'	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
31	'R09'	'{台大醫院,NTU Hospital}'	'{121.51602,25.041399}'	'10048臺北市中正區公園路52號B1'	1	20170525
32	'R10,BL12'	'{台北車站,Taipei Main Station}'	'{121.512415,25.046311}'	'10041臺北市中正區忠孝西路1段40號'	0	20170525

For example, a quote symbol is useless...

The screenshot shows an Excel spreadsheet with the following data:

SEQNO	StationID	StationName	StationPosition	Station Address	Bike Allow On Holiday	UpdateTime
1	'BR01'	'動物園,Taipei Zoo'	'{121.579501,24.998205}'	'11656臺北市文山區新光路2段32號'	0	20170525
2	'BR02'	'木柵,Muzha'	'{121.573127,24.99824}'	'11656臺北市文山區木柵路4段135號'	0	20170525
3	'BR03'	'萬芳社區,Wanfang Community'	'{121.568088,24.99857}'	'11653臺北市文山區萬芳路60號'	0	20170525
4	'BR04'	'萬芳醫院,Wanfang Hospital'	'{121.558092,24.99932}'		0	20170525
5	'BR05'	'辛亥,Xinhai'	'{121.5570455,25.005455}'		0	20170525
6	'BR06'	'麟光,Linguang'	'{121.5588335,25.018495}'		0	20170525
7	'BR07'	'六張犁,Liuzhangli'	'{121.55302,25.02381}'		0	20170525
8	'BR08'	'科技大樓,Technology Building'	'{121.5434615,25.02612}'		0	20170525
9	'BR09,R05'	'大安,Daan'	'{121.54237,25.033311}'		0	20170525
10	'BR10,BL15'	'忠孝復興,Zhongxiao Fuxing'	'{121.545026,25.041749}'		0	20170525
11	'BR12'	'中山國中,Zhongshan Junior High School'	'{121.544215,25.06085}'		0	20170525
12	'BR13'	'松山機場,Songshan Airport'	'{121.55201,25.0629075}'		0	20170525
13	'BR14'	'大直,Dazhi'	'{121.54679,25.07943}'		0	20170525
14	'BR15'	'劍南路,Jiannan Rd.'	'{121.5555825,25.08483}'		0	20170525
15	'BR16'	'西湖,Xihu'	'{121.567227,25.08216}'		0	20170525
16	'BR17'	'港墘,Gangqian'	'{121.57516,25.08007}'		0	20170525
17	'BR18'	'文德,Wende'	'{121.5849995,25.078455}'		0	20170525
18	'BR19'	'內湖,Neihu'	'{121.594363,25.083675}'		0	20170525
19	'BR20'	'大湖公園,Dahu Park'	'{121.602214,25.083805}'	'11477臺北市內湖區成切路5段11號'	0	20170525
20	'BR21'	'葫洲,Huzhou'	'{121.6071455,25.07271}'	'11496臺北市內湖區康寧路3段16號'	0	20170525
21	'BR21'	'葫洲,Huzhou'	'{121.6071455,25.07271}'	'11496臺北市內湖區康寧路3段16號'	0	20170525
22	'BR22'	'東湖,Donghu'	'{121.611535,25.067455}'	'11496臺北市內湖區康寧路3段16號'	0	20170525
23	'BR23'	'南港軟體園區,Nangang Software Park'	'{121.615,25.05992}'	'11496臺北市內湖區康寧路3段16號'	0	20170525
24	'BR24'	'南港展覽館,Taipei Nangang Exhibition Center'	'{121.616861,25.054919}'	'文湖線：11568臺北市南港區南港路1段32號'	0	20170525
25	'BL23'	'南港展覽館,Taipei Nangang Exhibition Center'	'{121.616861,25.054919}'	'文湖線：11568臺北市南港區南港路1段32號'	0	20170525
26	'R02'	'象山,Xiangshan'	'{121.570116,25.032395}'	'11068臺北市信義區信義路5段152號B1'	1	20170525
27	'R03'	'台北101/世貿,Taipei 101/World Trade Center'	'{121.563667,25.032865}'	'11049臺北市信義區信義路5段20號B1'	1	20170525
28	'R04'	'信義安和,Xinyi Anhe'	'{121.552326,25.033015}'	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
29	'R06'	'大安森林公園,Daan Park'	'{121.536151,25.033225}'	'10656臺北市大安區信義路3段100號B1'	1	20170525
30	'R07'	'東門,Dongmen'	'{121.528766,25.033894}'	'10650臺北市大安區信義路2段166號B1'	1	20170525
31	'R08,G10'	'中正紀念堂,Chiang Kai-Shek Memorial Hall'	'{121.518273,25.032767}'	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
32	'R09'	'台大醫院,NTU Hospital'	'{121.51602,25.041399}'	'10048臺北市中正區公園路52號B1'	1	20170525
33	'R10,BL12'	'台北車站,Taipei Main Station'	'{121.517415,25.04631}'	'10041臺北市中正區史丹利路1段40號'	0	20170525

The 'Find and Replace' dialog box is open, showing the 'Find Next' button highlighted. A blue text box is overlaid on the dialog box with the text: 'Please follow this concept to replace all useless symbols in the column.'

See the Results after Replacement

SEQNO	StationID	StationName	StationPosition	Station Address	Bike Allow On Holiday	UpdateTime
1	'BR01'	'(動物園,Taipei Zoo)'	{121.579501,24.998205}	'11656臺北市文山區新光路2段32號'	0	20170525
2	'BR02'	'(木柵,Muzha)'	{121.573127,24.99824}	'11656臺北市文山區木柵路4段135號'	0	20170525
3	'BR03'	'(萬芳社區,Wanfang Community)'	{121.568088,24.99857}	'11653臺北市文山區萬芳路60號'	0	20170525
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	{121.558092,24.99932}	'11696臺北市文山區興隆路3段113號'	0	20170525
5	'BR05'	'(辛亥,Xinhai)'	{121.5570455,25.005455}		0	20170525
6	'BR06'	'(麟光,Linguang)'	{121.5588335,25.018495}		0	20170525
7	'BR07'	'(六張犁,Liuzhangli)'	{121.55302,25.02381}		0	20170525
8	'BR08'	'(科技大樓,Technology Building)'	{121.5434615,25.02612}		0	20170525
9	'BR09,R05'	'(大安,Daan)'	{121.54237,25.033311}		0	20170525
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	{121.545026,25.041749}		0	20170525
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	{121.544215,25.06085}		0	20170525
12	'BR13'	'(松山機場,Songshan Airport)'	{121.55201,25.0629075}		0	20170525
13	'BR14'	'(大直,Dazhi)'	{121.54679,25.07943}		0	20170525
14	'BR15'	'(劍南路,Jiannan Rd.)'	{121.5555825,25.08483}		0	20170525
15	'BR16'	'(西湖,Xihu)'	{121.567227,25.08216}		0	20170525
16	'BR17'	'(港墘,Gangqian)'	{121.57516,25.08007}	'11493臺北市內湖區內湖路1段256號'	0	20170525
17	'BR18'	'(文德,Wende)'	{121.5849995,25.078455}	'11446臺北市內湖區內湖路1段663號'	0	20170525
18	'BR19'	'(內湖,Neihu)'	{121.594363,25.083675}	'11475臺北市內湖區文德路214號'	0	20170525
19	'BR20'	'(大湖公園,Dahu Park)'	{121.602214,25.083805}	'11489臺北市內湖區成功路4段186號'	0	20170525
20	'BR21'	'(葫洲,Huzhou)'	{121.6071455,25.07271}	'11477臺北市內湖區成功路5段11號'	0	20170525
21	'BR22'	'(東湖,Donghu)'	{121.611535,25.067455}	'11486臺北市內湖區康寧路3段16號'	0	20170525
22	'BR23'	'(南港軟體園區,Nangang Software Park)'	{121.615,25.05992}	'11486臺北市內湖區康寧路3段235號'	0	20170525
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	{121.616861,25.054919}	'11568臺北市南港區經貿二路183號'	0	20170525
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	{121.616861,25.054919}	'文湖線：11568臺北市南港區南港路1段32號'	0	20170525
25	'R02'	'(象山,Xiangshan)'	{121.570116,25.032395}	'板南線：11568臺北市南港區研究院路1段1號'	1	20170525
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	{121.563667,25.032865}	'11080臺北市信義區信義路5段152號B1'	1	20170525
27	'R04'	'(信義安和,Xinyi Anhe)'	{121.552326,25.03015}	'11049臺北市信義區信義路5段20號B1'	1	20170525
28	'R06'	'(大安森林公園,Daan Park)'	{121.536151,25.033225}	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
29	'R07'	'(東門,Dongmen)'	{121.528766,25.033894}	'10656臺北市大安區信義路3段100號B1'	1	20170525
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	{121.518273,25.032767}	'10650臺北市大安區信義路2段166號B1'	1	20170525
31	'R09'	'(台大醫院,NTU Hospital)'	{121.51602,25.041399}	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
32	'R10,B11?'	'(台北車站,Taipei Main Station)'	{121.517415,25.046311}	'10048臺北市中正區公園路52號B1'	1	20170525
33				'10041臺北市中正區中興南路1段48號'	0	20170525

After Cleaning All Useless Symbols, ...

SEQNO	StationID	StationName	StationPosition
1			
2	'BR01'	'(動物園,Taipei Zoo)'	121.579501,24.998
3	'BR02'	'(木柵,Muzha)'	121.573127,24.998
4	'BR03'	'(萬芳社區,Wanfang Community)'	121.568088,24.998
5	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.558092,24.998
6	'BR05'	'(辛亥,Xinhai)'	121.557045,25.000
7	'BR06'	'(麟光,Linguang)'	121.558833,25.000
8	'BR07'	'(六張犁,Liuzhangli)'	121.55302,25.0238
9	'BR08'	'(科技大樓,Technology Building)'	121.543461,25.020
10	'BR09,R05'	'(大安,Daan)'	121.54237,25.0333
11	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuzing)'	121.545026,25.041
12	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.544215,25.060
13	'BR13'	'(松山機場,Songshan Airport)'	121.55201,25.0623
14	'BR14'	'(大直,Dazhi)'	121.54679,25.0794
15	'BR15'	'(創南路,Jiannan Rd.)'	121.555825,25.083
16	'BR16'	'(西湖,Xihu)'	121.567227,25.082
17	'BR17'	'(港墘,Gangqian)'	121.57516,25.0800
18	'BR18'	'(文德,Wende)'	121.584995,25.077
19	'BR19'	'(內湖,Neihu)'	121.594363,25.083
20	'BR20'	'(大湖公園,Dahu Park)'	121.602214,25.083
21	'BR21'	'(葫洲,Huzhou)'	121.607145,25.077
22	'BR22'	'(東湖,Donghu)'	121.611535,25.067
23	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.615,25.05992
24	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054
25	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054
26	'R02'	'(象山,Xiangshan)'	121.570116,25.033
27	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667,25.033
28	'R04'	'(信義安和,Xinyi Anhe)'	121.552326,25.033
29	'R06'	'(大安森林公園,Daan Park)'	121.536151,25.033
30	'R07'	'(東門,Dongmen)'	121.528766,25.033
31	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273,25.033
32	'R09'	'(台大醫院,NTU Hospital)'	121.51602,25.041
33	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517415,25.041

After Cleaning All Useless Symbols, ...

Click "Text to Columns"

2

資料剖析

將單一文字欄分割成多個欄。

例如，您可以將姓名欄分割成姓氏欄和名字欄。

您可以選擇分割方式：
固定寬度，或於每個逗號、句號或其他字元後分割。

其他資訊

資料剖析

將單一文字欄分割成多個欄。

例如，您可以將姓名欄分割成姓氏欄和名字欄。

您可以選擇分割方式：
固定寬度，或於每個逗號、句號或其他字元後分割。

其他資訊

1

Insert a new column

SEQNO	StationID	StationName	StationPosition	Bike Allow On Holiday	UpdateTime
1	'BR01'	'(動物園,Taipei Zoo)'	121.579501,24.9873127,24.9873127,24.9873127	0	20170525
2	'BR02'	'(木柵,Muzha)'	121.568088,24.9873127,24.9873127,24.9873127	0	20170525
3	'BR03'	'(萬芳社區,Wanfang Community)'	121.558092,24.9873127,24.9873127,24.9873127	0	20170525
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.5570455,25.023611,25.023611,25.023611	0	20170525
5	'BR05'	'(辛亥,Xinhai)'	121.5588335,25.023611,25.023611,25.023611	0	20170525
6	'BR06'	'(麟光,Linguang)'	121.55302,25.023611,25.023611,25.023611	0	20170525
7	'BR07'	'(六張犁,Liuzhangli)'	121.5434615,25.02612,25.02612,25.02612	0	20170525
8	'BR08'	'(科技大樓,Technology Building)'	121.54237,25.03311,25.03311,25.03311	0	20170525
9	'BR09,R05'	'(大安,Daan)'	121.545026,25.041749,25.041749,25.041749	0	20170525
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuzing)'	121.544215,25.06085,25.06085,25.06085	0	20170525
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.55201,25.0629075,25.0629075,25.0629075	0	20170525
12	'BR13'	'(松山機場,Songshan Airport)'	121.54679,25.07943,25.07943,25.07943	0	20170525
13	'BR14'	'(大直,Dazhi)'	121.555825,25.08483,25.08483,25.08483	0	20170525
14	'BR15'	'(創南路,Jiannan Rd.)'	121.56727,25.08216,25.08216,25.08216	0	20170525
15	'BR16'	'(西湖,Xihu)'	121.57516,25.08007,25.08007,25.08007	0	20170525
16	'BR17'	'(港墘,Gangqian)'	121.5849995,25.078455,25.078455,25.078455	0	20170525
17	'BR18'	'(文德,Wende)'	121.594363,25.083675,25.083675,25.083675	0	20170525
18	'BR19'	'(內湖,Neihu)'	121.602214,25.083805,25.083805,25.083805	0	20170525
19	'BR20'	'(大湖公園,Dahu Park)'	121.6071455,25.07271,25.07271,25.07271	0	20170525
20	'BR21'	'(葫洲,Huzhou)'	121.611535,25.067455,25.067455,25.067455	0	20170525
21	'BR22'	'(東湖,Donghu)'	121.615,25.05992,25.05992,25.05992	0	20170525
22	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.616861,25.054919,25.054919,25.054919	0	20170525
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919,25.054919,25.054919	0	20170525
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919,25.054919,25.054919	1	20170525
25	'R02'	'(象山,Xiangshan)'	121.570116,25.032395,25.032395,25.032395	1	20170525
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667,25.032865,25.032865,25.032865	1	20170525
27	'R04'	'(信義安和,Xinyi Anhe)'	121.552326,25.033015,25.033015,25.033015	1	20170525
28	'R06'	'(大安森林公園,Daan Park)'	121.536151,25.033225,25.033225,25.033225	1	20170525
29	'R07'	'(東門,Dongmen)'	121.528766,25.033894,25.033894,25.033894	1	20170525
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273,25.032767,25.032767,25.032767	1	20170525
31	'R09'	'(台大醫院,NTU Hospital)'	121.51602,25.041399,25.041399,25.041399	1	20170525
32	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517415,25.04631,25.04631,25.04631	1	20170525

Select "delimiter"

資料到新欄位 - 步驟 3 之 1

資料到新欄位判定資料類型為分隔符號。
若一切設定無誤, 請選取 [下一步], 或選取適當的資料類型。
原始資料類型
請選擇最適合您的資料的欄位類型:

- 分隔符號 (D) - 用分欄字元, 如逗號或 TAB 鍵, 區分每一個欄位。
- 固定寬度 (W) - 每個欄位固定, 欄位間以空格區分。

預覽選取的資料:

StationPosition
1 21.579501, 24.998205
2 21.573127, 24.99824
3 21.568088, 24.99857
4 21.558092, 24.99932

取消 < 上一步(B) 下一步(N) > 完成(F)

SEQNO	StationID	StationName	StationPosition	StationAddress	BikeAllowOnHoliday	UpdateTime
1	'BR01'	'(動物園,Taipei Zoo)'	121.579501	北路2段32號	0	20170525
2	'BR02'	'(木柵,Muzha)'	121.573127	麗路4段135號	0	20170525
3	'BR03'	'(萬芳社區,Wanfang Community)'	121.568088	學路60號	0	20170525
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.558092	麗路3段113號	0	20170525
5	'BR05'	'(辛亥,Xinhai)'	121.557045	麗路4段128號	0	20170525
6	'BR06'	'(麟光,Linguang)'	121.558833	丹東路3段410號	0	20170525
7	'BR07'	'(六張犁,Liuzhangli)'	121.553022	丹東路3段168號	0	20170525
8	'BR08'	'(科技大樓,Technology Building)'	121.543461	麗南路2段235號	0	20170525
9	'BR09,R05'	'(大安,Daan)'	121.542374	大安區信義路4段2號	0	20170525
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	121.545026	北市大安區信義路3段180號	0	20170525
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.544215	大安區忠孝東路3段302號	0	20170525
12	'BR13'	'(松山機場,Songshan Airport)'	121.552014	大安區忠孝東路4段47號	0	20170525
13	'BR14'	'(大直,Dazhi)'	121.546794	麗北路376號	0	20170525
14	'BR15'	'(劍南路,Jiannan Rd.)'	121.555582	麗北路338號	0	20170525
15	'BR16'	'(西湖,Xihu)'	121.567227	安路534之1號	0	20170525
16	'BR17'	'(港墘,Gangqian)'	121.575164	安路798號	0	20170525
17	'BR18'	'(文德,Wende)'	121.584998	安路1段256號	0	20170525
18	'BR19'	'(內湖,Neihu)'	121.594363	鄉路1段663號	0	20170525
19	'BR20'	'(大湖公園,Dahu Park)'	121.602214	鄉路214號	0	20170525
20	'BR21'	'(葫洲,Huzhou)'	121.607145,25.07271	安路4段186號	0	20170525
21	'BR22'	'(東湖,Donghu)'	121.611535,25.06745	安路5段11號	0	20170525
22	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.61525,05992	'11486臺北市內湖區康寧路3段16號	0	20170525
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11486臺北市內湖區康寧路3段235號	0	20170525
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11568臺北市南港區經貿二路183號	0	20170525
25	'R02'	'(象山,Xiangshan)'	121.570116,25.032395	'文湖線: 11568臺北市南港區南港路1段32號	0	20170525
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667,25.032865	'板南線: 11568臺北市南港區研究院路1段1號	1	20170525
27	'R04'	'(信義安和,Xinyi Anhe)'	121.552326,25.033015	'11080臺北市信義區信義路5段152號B1'	1	20170525
28	'R06'	'(大安森林公園,Daan Park)'	121.536151,25.033225	'11049臺北市信義區信義路5段20號B1'	1	20170525
29	'R07'	'(東門,Dongmen)'	121.528766,25.033894	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273,25.032767	'10656臺北市大安區信義路3段100號B1'	1	20170525
31	'R09'	'(台大醫院,NTU Hospital)'	121.51602,25.041399	'10650臺北市大安區信義路2段166號B1'	1	20170525
32	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517115,25.04631	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
33	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517115,25.04631	'10048臺北市中正區公園路52號B1'	1	20170525
34	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517115,25.04631	'10041臺北市中正區史丹利路1段48號	0	20170525

Select "comma"

The screenshot displays an Excel spreadsheet with the following data:

SEQNO	StationID	StationName	Station Position	StationAddress	BikeAllowOnHoliday	UpdateTime
1	'BR01'	'(動物園,Taipei Zoo)'	121.579501	七路2段32號	0	20170525
2	'BR02'	'(木柵,Muzha)'	121.573127	欄路4段135號	0	20170525
3	'BR03'	'(萬芳社區,Wanfang Community)'	121.568088	學路60號	0	20170525
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.558092	龍路3段113號	0	20170525
5	'BR05'	'(辛亥,Xinhai)'	121.557045	安路4段128號	0	20170525
6	'BR06'	'(麟光,Linguang)'	121.558833	平東路3段410號	0	20170525
7	'BR07'	'(六張犁,Liuzhangli)'	121.553022	平東路3段168號	0	20170525
8	'BR08'	'(科技大樓,Technology Building)'	121.543461	順南路2段235號	0	20170525
9	'BR09,R05'	'(大安,Daan)'	121.542237	大安區信義路4段2號	0	20170525
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	121.545026	北市大安區信義路3段180號	0	20170525
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.544215	大安區忠孝東路3段302號	0	20170525
12	'BR13'	'(松山機場,Songshan Airport)'	121.552014	大安區忠孝東路4段47號	0	20170525
13	'BR14'	'(大直,Dazhi)'	121.546793	魁北路376號	0	20170525
14	'BR15'	'(劍南路,Jiannan Rd.)'	121.555582	北北路338號	0	20170525
15	'BR16'	'(西湖,Xihu)'	121.567227	安路534之1號	0	20170525
16	'BR17'	'(港墘,Gangqian)'	121.575164	安路798號	0	20170525
17	'BR18'	'(文德,Wende)'	121.584999	安路798號	0	20170525
18	'BR19'	'(內湖,Neihu)'	121.594363	湖路1段256號	0	20170525
19	'BR20'	'(大湖公園,Dahu Park)'	121.602214	湖路1段563號	0	20170525
20	'BR21'	'(葫洲,Huzhou)'	121.6071455,25.07271	湖路214號	0	20170525
21	'BR22'	'(東湖,Donghu)'	121.611535,25.067455	力路4段186號	0	20170525
22	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.615,25.05992	力路5段11號	0	20170525
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11486臺北市內湖區康寧路3段16號	0	20170525
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11486臺北市內湖區康寧路3段235號	0	20170525
25	'R02'	'(象山,Xiangshan)'	121.570116,25.032395	'11568臺北市南港區經貿二路183號	0	20170525
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667,25.032865	'文湖線：11568臺北市南港區南港路1段32號	0	20170525
27	'R04'	'(信義安和,Xinyi Anhe)'	121.552326,25.033015	'板南線：11568臺北市南港區研究路1段1號	1	20170525
28	'R06'	'(大安森林公園,Daan Park)'	121.536151,25.033225	'11080臺北市信義區信義路5段152號B1'	1	20170525
29	'R07'	'(東門,Dongmen)'	121.528766,25.033894	'11049臺北市信義區信義路5段20號B1'	1	20170525
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273,25.032767	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
31	'R09'	'(台大醫院,NTU Hospital)'	121.516022,25.041399	'10656臺北市大安區信義路3段100號B1'	1	20170525
32	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517115,25.04631	'10650臺北市大安區信義路2段166號B1'	1	20170525
33				'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
				'10048臺北市中正區公園路52號B1'	1	20170525
				'10041臺北市中正區史東路1段49號	0	20170525

Next and Complete

The screenshot shows an Excel spreadsheet with the following columns: SEQNO, StationID, StationName, StationPosition, Station Address, Bike Allow On Holiday, and UpdateTime. A dialog box is open over the 'StationPosition' column, displaying a list of station IDs and their corresponding coordinates. The dialog box has options for 'General', 'Text', 'Date', and 'Do not import', and a 'Preview' section showing a list of station IDs and their coordinates.

SEQNO	StationID	StationName	StationPosition	Station Address	Bike Allow On Holiday	UpdateTime
1	'BR01'	'(動物園,Taipei Zoo)'	121.579501	松路2段32號	0	20170525
2	'BR02'	'(木柵,Muzha)'	121.573127	柵路4段135號	0	20170525
3	'BR03'	'(萬芳社區,Wanfang Community)'	121.568088	芳路60號	0	20170525
4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.558092	隆路3段113號	0	20170525
5	'BR05'	'(辛亥,Xinhai)'	121.557045	安路4段128號	0	20170525
6	'BR06'	'(麟光,Linguang)'	121.558833	平東路3段410號	0	20170525
7	'BR07'	'(六張犁,Liuzhangli)'	121.553022	平東路3段168號	0	20170525
8	'BR08'	'(科技大樓,Technology Building)'	121.543461	興南路2段235號	0	20170525
9	'BR09,R05'	'(大安,Daan)'	121.542372	大安區信義路4段2號	0	20170525
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	121.545026	北市大安區信義路3段180號	0	20170525
11	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.544215	大安區忠孝東路3段302號	0	20170525
12	'BR13'	'(松山機場,Songshan Airport)'	121.552012	大安區忠孝東路4段47號	0	20170525
13	'BR14'	'(大直,Dazhi)'	121.546792	堤北路376號	0	20170525
14	'BR15'	'(劍南路,Jiannan Rd.)'	121.555582	堤北路338號	0	20170525
15	'BR16'	'(西湖,Xihu)'	121.567227	安路534之1號	0	20170525
16	'BR17'	'(港墘,Gangqian)'	121.575162	安路798號	0	20170525
17	'BR18'	'(文德,Wende)'	121.584999	柳路1段256號	0	20170525
18	'BR19'	'(內湖,Neihu)'	121.594363	柳路1段663號	0	20170525
19	'BR20'	'(大湖公園,Dahu Park)'	121.602214	惠路214號	0	20170525
20	'BR21'	'(葫洲,Huzhou)'	121.607145,25.07271	勃路4段186號	0	20170525
21	'BR22'	'(東湖,Donghu)'	121.611535,25.067455	勃路5段11號	0	20170525
22	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.61525,0.9992	'11486臺北市內湖區康寧路3段16號	0	20170525
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11486臺北市內湖區康寧路3段235號	0	20170525
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861,25.054919	'11568臺北市南港區經貿二路183號	0	20170525
25	'R02'	'(象山,Xiangshan)'	121.570116,25.032395	'文湖線：11568臺北市南港區南港路1段32號	0	20170525
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667,25.032865	'板南線：11568臺北市南港區研究院路1段1號	1	20170525
27	'R04'	'(信義安和,Xinyi Anhe)'	121.552326,25.033015	'11080臺北市信義區信義路5段152號B1'	1	20170525
28	'R06'	'(大安森林公園,Daan Park)'	121.536151,25.033225	'11049臺北市信義區信義路5段20號B1'	1	20170525
29	'R07'	'(東門,Dongmen)'	121.528766,25.033894	'10681臺北市大安區信義路4段212之1號B1'	1	20170525
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273,25.032767	'10656臺北市大安區信義路3段100號B1'	1	20170525
31	'R09'	'(台大醫院,NTU Hospital)'	121.516022,25.041399	'10650臺北市大安區信義路2段166號B1'	1	20170525
32	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.512115,25.04631	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525
33				'10048臺北市中正區公園路52號B1'	1	20170525
34				'10041臺北市中正區忠孝西路1段48號	0	20170525

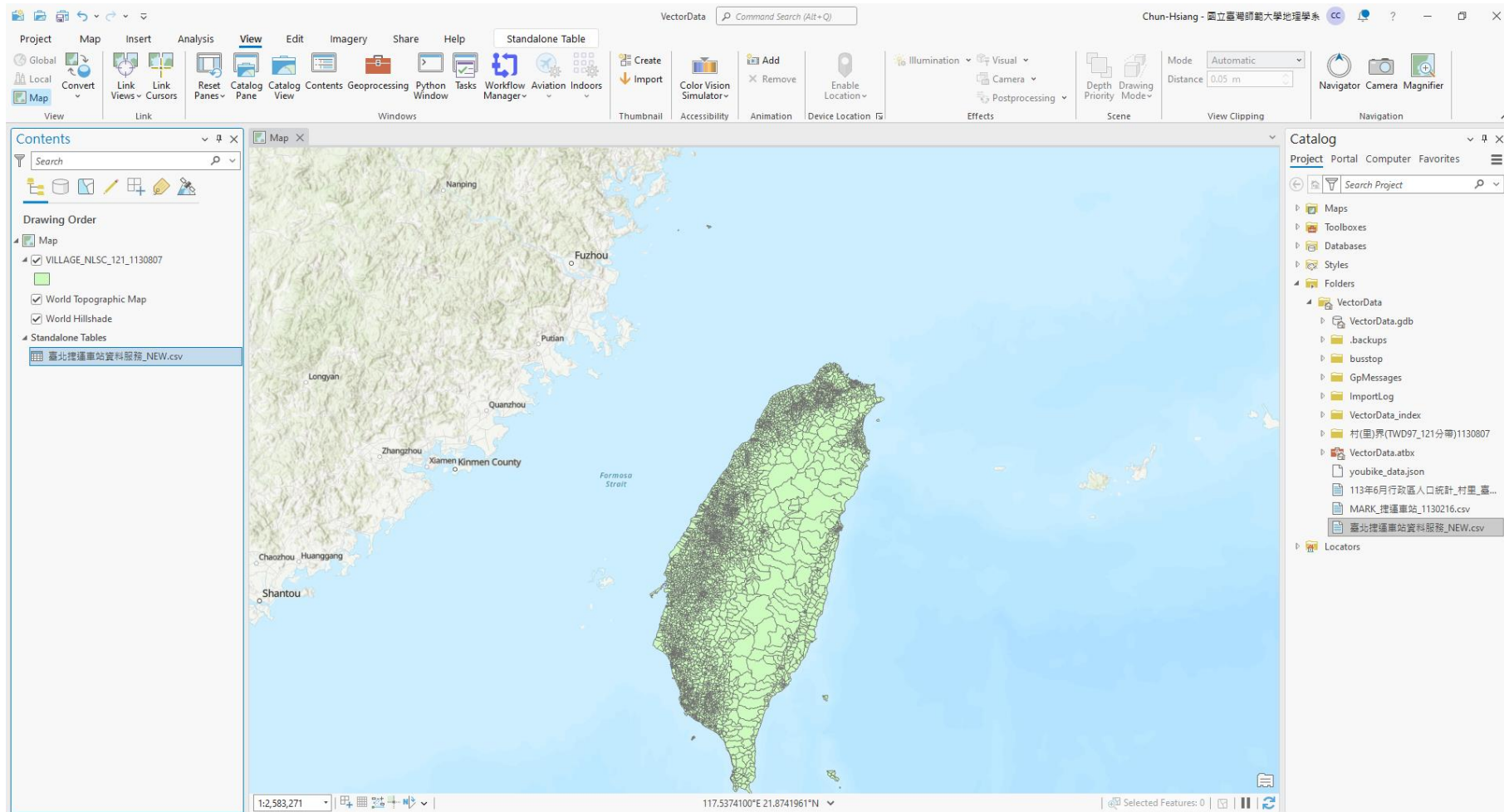
Rename the Columns

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	SEQNO	StationID	StationName	StationPosition		Station Address	BikeAllowOnHoliday	UpdateTime					
2	1	'BR01'	'(動物園,Taipei Zoo)'	121.579501	24.998205	1656臺北市文山區新光路2段32號	0	20170525					
3	2	'BR02'	'(木柵,Muzha)'	121.573127	24.99824	1656臺北市文山區木柵路4段135號	0	20170525					
4	3	'BR03'	'(萬芳社區,Wanfang Community)'	121.568088	24.99857	1653臺北市文山區萬芳路60號	0	20170525					
5	4	'BR04'	'(萬芳醫院,Wanfang Hospital)'	121.558092	24.99932	1696臺北市文山區興隆路3段113號	0	20170525					
6	5	'BR05'	'(辛亥,Xinhai)'	121.5570455	25.005455	1694臺北市文山區辛亥路4段128號	0	20170525					
7	6	'BR06'	'(麟光,Linguang)'	121.5588335	25.018495	0676臺北市大安區和平東路3段410號	0	20170525					
8	7	'BR07'	'(六張犁,Liuzhangli)'	121.55302	25.02381	0674臺北市大安區和平東路3段168號	0	20170525					
9	8	'BR08'	'(科技大樓,Technology Building)'	121.5434615	25.02612	0667臺北市大安區復興南路2段235號	0	20170525					
10	9	'BR09,R05'	'(大安,Daan)'	121.54237	25.033311	文湖線：10683臺北市大安區信義路4段2號 淡水信義線：10658臺北市大安區信義路3段180號	0	20170525					
11	10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'	121.545026	25.041749	文湖線：10654臺北市大安區忠孝東路3段302號 南線：10691臺北市大安區忠孝東路4段47號	0	20170525					
12	11	'BR12'	'(中山國中,Zhongshan Junior High School)'	121.544215	25.06085	0476臺北市中山區復興北路376號	0	20170525					
13	12	'BR13'	'(松山機場,Songshan Airport)'	121.55201	25.0629075	0576臺北市松山區敦化北路338號	0	20170525					
14	13	'BR14'	'(大直,Dazhi)'	121.54679	25.07943	0465臺北市中山區北安路534之1號	0	20170525					
15	14	'BR15'	'(劍南路,Jiannan Rd.)'	121.5555825	25.08483	0464臺北市中山區北安路798號	0	20170525					
16	15	'BR16'	'(西湖,Xihu)'	121.567227	25.08216	1493臺北市內湖區內湖路1段256號	0	20170525					
17	16	'BR17'	'(港墘,Gangqian)'	121.57516	25.08007	1446臺北市內湖區內湖路1段663號	0	20170525					
18	17	'BR18'	'(文德,Wende)'	121.5849995	25.078455	1475臺北市內湖區文德路214號	0	20170525					
19	18	'BR19'	'(內湖,Neihu)'	121.594363	25.083675	1489臺北市內湖區成功路4段186號	0	20170525					
20	19	'BR20'	'(大湖公園,Dahu Park)'	121.602214	25.083805	1477臺北市內湖區成功路5段11號	0	20170525					
21	20	'BR21'	'(葫洲,Huzhou)'	121.6071455	25.07271	1486臺北市內湖區康寧路3段16號	0	20170525					
22	21	'BR22'	'(東湖,Donghu)'	121.611535	25.067455	1486臺北市內湖區康寧路3段235號	0	20170525					
23	22	'BR23'	'(南港軟體園區,Nangang Software Park)'	121.615	25.05992	1568臺北市南港區經貿二路183號	0	20170525					
24	23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861	25.054919	文湖線：11568臺北市南港區南港路1段32號	0	20170525					
25	24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'	121.616861	25.054919	南線：11568臺北市南港區研究院路1段1號	1	20170525					
26	25	'R02'	'(象山,Xiangshan)'	121.570116	25.032395	1080臺北市信義區信義路5段152號B1'	1	20170525					
27	26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'	121.563667	25.032865	1049臺北市信義區信義路5段20號B1'	1	20170525					
28	27	'R04'	'(信義安和,Xinyi Anhe)'	121.552326	25.033015	0681臺北市大安區信義路4段212之1號B1'	1	20170525					
29	28	'R06'	'(大安森林公園,Daan Park)'	121.536151	25.033225	0656臺北市大安區信義路3段100號B1'	1	20170525					
30	29	'R07'	'(東門,Dongmen)'	121.528766	25.033894	0650臺北市大安區信義路2段166號B1'	1	20170525					
31	30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'	121.518273	25.032767	0074臺北市中正區羅斯福路1段8之1號B1'	1	20170525					
32	31	'R09'	'(台大醫院,NTU Hospital)'	121.51602	25.041399	0048臺北市中正區公園路52號B1'	1	20170525					
33	32	'R10,BL12'	'(台北車站,Taipei Main Station)'	121.517415	25.04631	0041臺北市中正區忠孝西路1段40號	0	20170525					

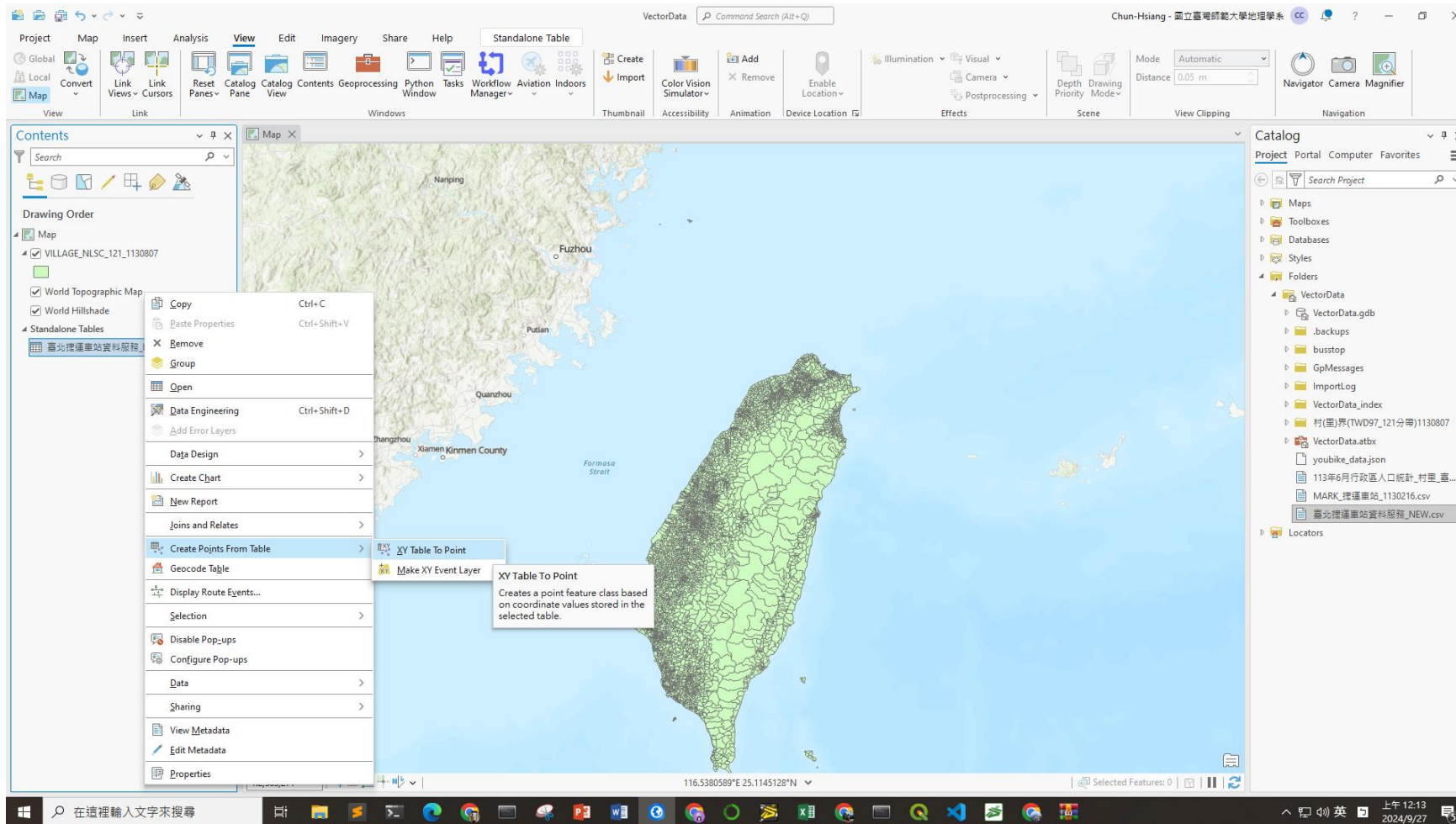
Data Preprocessing

	A	B	C	D	E	F	G	H	I	J	K	L	M
	SEQNO	StationID	StationName	StationPosition_X	StationPosition_Y	Station Address	Bike Allow On Holiday	UpdateTime					
1	'BR01'	'動物園,Taipei Zoo'		121.579501	24.998205	'11656臺北市文山區新光路2段32號'	0	20170525					
2	'BR02'	'木柵,Muzha'		121.573127	24.99824	'11656臺北市文山區木柵路4段135號'	0	20170525					
3	'BR03'	'萬芳社區,Wanfang Community'		121.568088	24.99857	'11653臺北市文山區萬芳路60號'	0	20170525					
4	'BR04'	'萬芳醫院,Wanfang Hospital'		121.558092	24.99932	'11696臺北市文山區興隆路3段113號'	0	20170525					
5	'BR05'	'辛亥,Xinhai'		121.5570455	25.005455	'11694臺北市文山區辛亥路4段128號'	0	20170525					
6	'BR06'	'麟光,Linguang'		121.558335	25.018495	'10676臺北市大安區和平東路3段410號'	0	20170525					
7	'BR07'	'六張犁,Liuzhangli'		121.55302	25.02381	'10674臺北市大安區和平東路3段168號'	0	20170525					
8	'BR08'	'科技大樓,Technology Building'		121.5434615	25.02612	'10667臺北市大安區復興南路2段235號'	0	20170525					
9	'BR09,R05'	'(大安,Daan)'		121.54237	25.033311	'文湖線：10683臺北市大安區信義路4段2號 淡水信義線：10658臺北市大安區信義路3段180號'	0	20170525					
10	'BR10,BL15'	'(忠孝復興,Zhongxiao Fuxing)'		121.545026	25.041749	'文湖線：10654臺北市大安區忠孝東路3段302號 板南線：10691臺北市大安區忠孝東路4段47號'	0	20170525					
11	'BR12'	'(中山國中,Zhongshan Junior High School)'		121.544215	25.06085	'10476臺北市中山區復興北路376號'	0	20170525					
12	'BR13'	'(松山機場,Songshan Airport)'		121.55201	25.0629075	'10576臺北市松山區敦化北路338號'	0	20170525					
13	'BR14'	'(大直,Dazhi)'		121.54679	25.07943	'10465臺北市中山區北安路534之1號'	0	20170525					
14	'BR15'	'(劍南路,jiannan Rd.)'		121.5555825	25.08483	'10464臺北市中山區北安路798號'	0	20170525					
15	'BR16'	'(西湖,Xihu)'		121.567227	25.08216	'11493臺北市內湖區內湖路1段256號'	0	20170525					
16	'BR17'	'(港墘,Gangqian)'		121.57516	25.08007	'11446臺北市內湖區內湖路1段663號'	0	20170525					
17	'BR18'	'(文德,Wende)'		121.5849995	25.078455	'11475臺北市內湖區文德路214號'	0	20170525					
18	'BR19'	'(內湖,Neihu)'		121.594363	25.083675	'11489臺北市內湖區成功路4段186號'	0	20170525					
19	'BR20'	'(大湖公園,Dahu Park)'		121.602214	25.083805	'11477臺北市內湖區成功路5段11號'	0	20170525					
20	'BR21'	'(葫洲,Huzhou)'		121.6071455	25.07271	'11486臺北市內湖區康寧路3段16號'	0	20170525					
21	'BR22'	'(東湖,Donghu)'		121.611535	25.067455	'11486臺北市內湖區康寧路3段235號'	0	20170525					
22	'BR23'	'(南港軟體園區,Nangang Software Park)'		121.61615	25.05992	'11568臺北市南港區經貿二路183號'	0	20170525					
23	'BR24'	'(南港展覽館,Taipei Nangang Exhibition Center)'		121.616861	25.054919	'文湖線：11568臺北市南港區南港路1段32號'	0	20170525					
24	'BL23'	'(南港展覽館,Taipei Nangang Exhibition Center)'		121.616861	25.054919	'板南線：11568臺北市南港區研究院路1段1號'	1	20170525					
25	'R02'	'(觀山,Xiangshan)'		121.570116	25.032395	'11080臺北市信義區信義路5段152號B1'	1	20170525					
26	'R03'	'(台北101/世貿,Taipei 101/World Trade Center)'		121.563667	25.032865	'11049臺北市信義區信義路5段20號B1'	1	20170525					
27	'R04'	'(信義安和,Xinyi Anhe)'		121.552326	25.033015	'10681臺北市大安區信義路4段212之1號B1'	1	20170525					
28	'R06'	'(大安森林公園,Daan Park)'		121.536151	25.033225	'10656臺北市大安區信義路3段100號B1'	1	20170525					
29	'R07'	'(東門,Dongmen)'		121.528766	25.033894	'10650臺北市大安區信義路2段166號B1'	1	20170525					
30	'R08,G10'	'(中正紀念堂,Chiang Kai-Shek Memorial Hall)'		121.518273	25.032767	'10074臺北市中正區羅斯福路1段8之1號B1'	1	20170525					
31	'R09'	'(台大醫院,NTU Hospital)'		121.51602	25.041399	'10048臺北市中正區公園路52號B1'	1	20170525					
32	'R10,B11'	'(台北車站,Taipei Main Station)'		121.517415	25.04631	'10041臺北市中正區忠孝東路1段49號'	0	20170525					

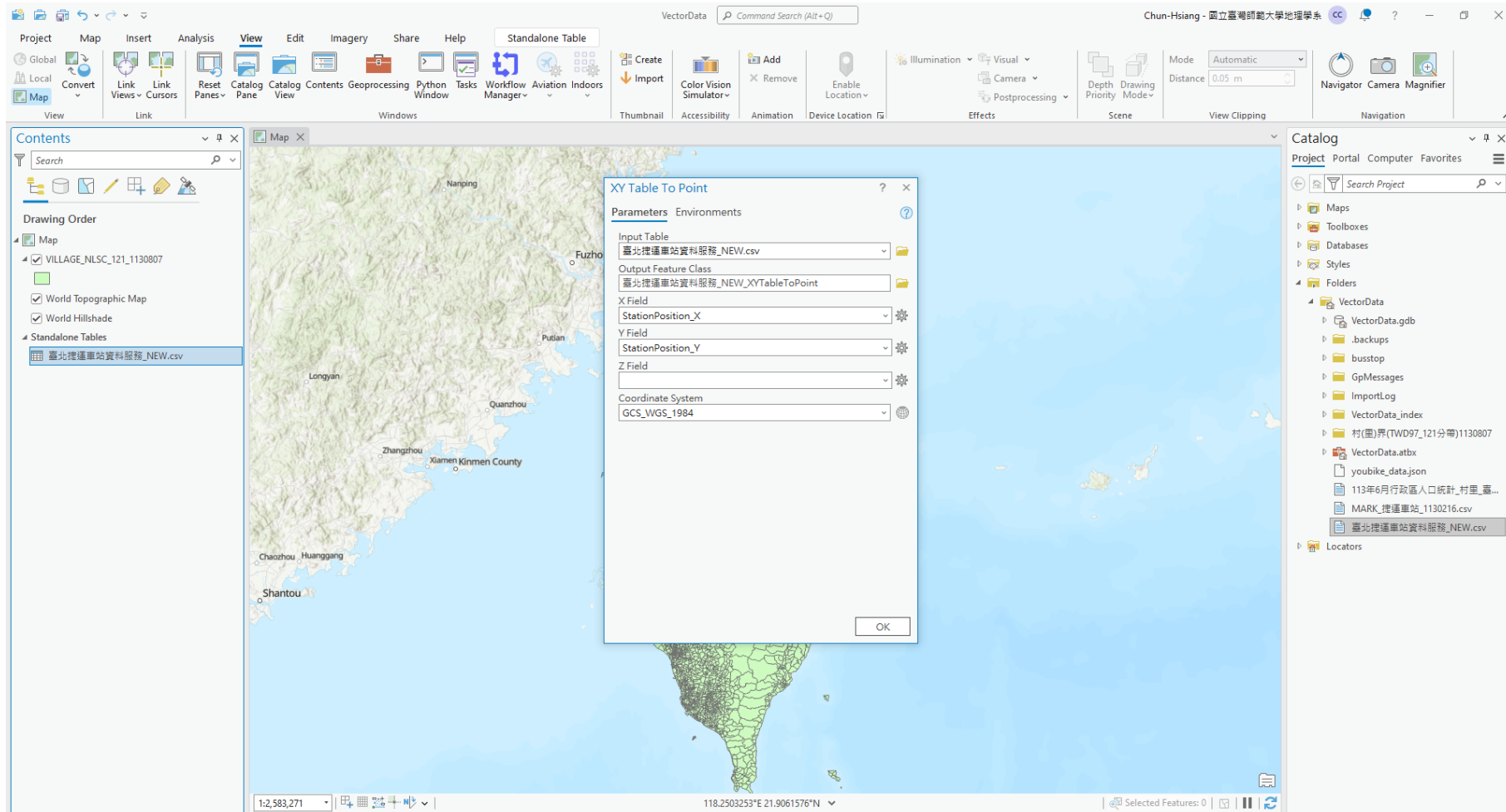
Add CSV to the Contents



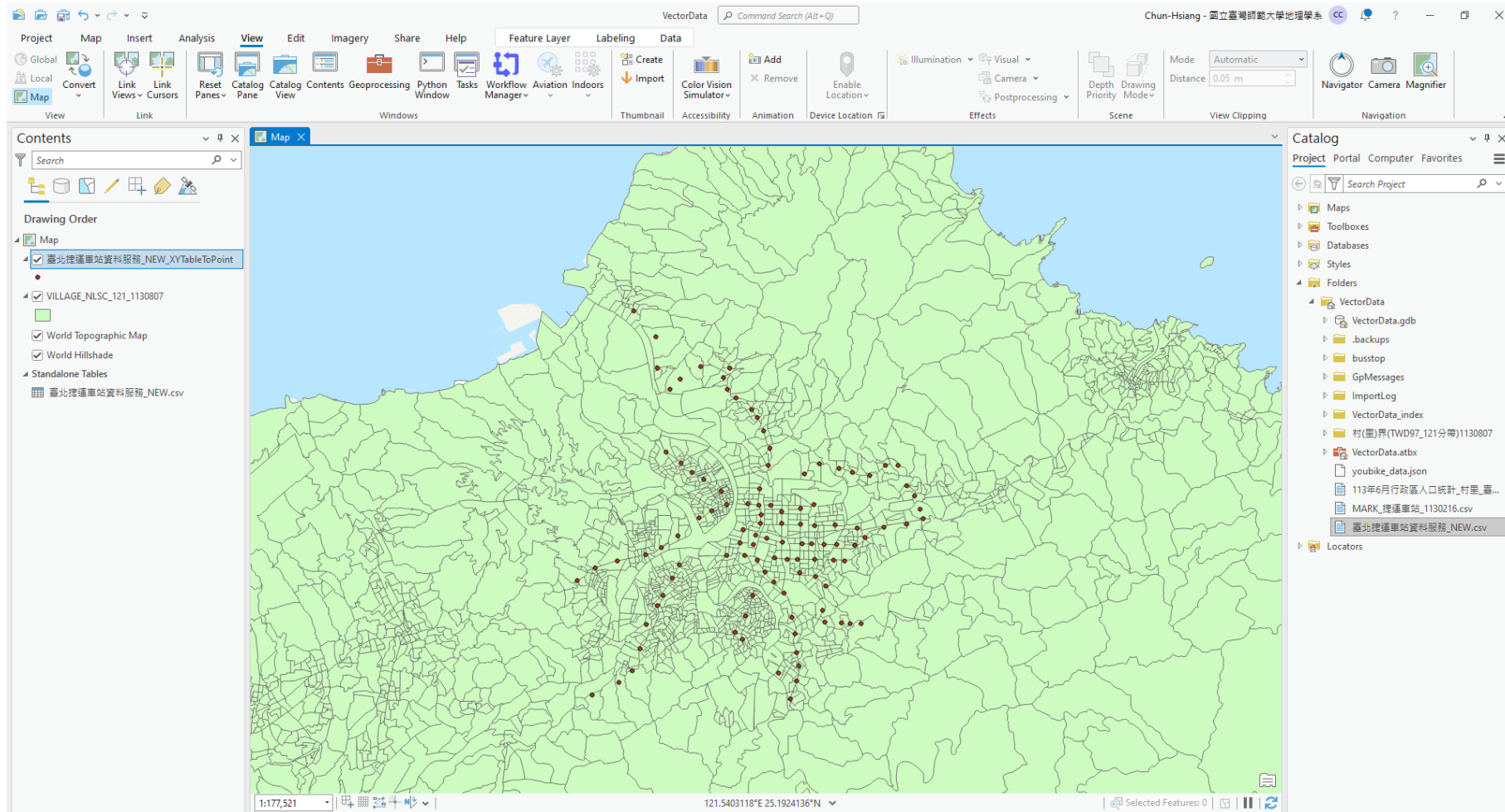
Display XY to Point



Display XY to Point



Display XY to Point Results



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sno	sna	sarea	rday	ar	sareaen	snaen	arer
500101001	YouBike2.0_捷運科技大樓站	大安區	2024-09-27 00:31:17	復興南路二段235號前	Daan Dist.	YouBike2.0_MRT Technology Bldg. Sta.	No.235 , Sec. 2 ,
500101002	YouBike2.0_復興南路二段273號前	大安區	2024-09-27 00:15:17	復興南路二段273號西側	Daan Dist.	YouBike2.0_No.273 , Sec. 2 , Fuxing S. Rd.	No.273 , Sec. 2 , Fu
500101003	YouBike2.0_國北教大實小東側門	大安區	2024-09-26 23:42:16	和平東路二段96巷7號	Daan Dist.	YouBike2.0_NTUE Experiment Elementary School (East...	No. 7 , Ln. 96 , Sec.
500101004	YouBike2.0_和平公園東側	大安區	2024-09-27 00:28:16	和平東路二段118巷33號	Daan Dist.	YouBike2.0_Heping Park (East)	No. 33 , Ln. 118 , Se
500101005	YouBike2.0_辛亥復興路口西北側	大安區	2024-09-27 00:29:16	復興南路二段368號	Daan Dist.	YouBike2.0_Xinhai Fuxing Rd. Intersection (Northwe...	No. 368 , Sec. 2 ,
500101006	YouBike2.0_復興南路二段280號前	大安區	2024-09-27 00:07:17	復興南路二段280號	Daan Dist.	YouBike2.0_No. 280 , Sec. 2 , Fuxing S. Rd.	No. 280 , Sec. 2 ,
500101007	YouBike2.0_復興南路二段340巷口	大安區	2024-09-27 00:35:14	復興南路二段342號	Daan Dist.	YouBike2.0_Ln. 340 , Sec. 2 , Fuxing S. Rd.	No. 342 , Sec. 2 ,
500101008	YouBike2.0_新生南路三段52號前	大安區	2024-09-26 23:56:18	新生南路三段52號	Daan Dist.	YouBike2.0_No. 52 , Sec. 3 , Xinsheng S. Rd.	No. 52 , Sec. 3 ,)
500101009	YouBike2.0_新生南路三段66號前	大安區	2024-09-27 00:23:17	新生南路三段66號東側	Daan Dist.	YouBike2.0_No. 66 , Sec. 3 , Xinsheng S. Rd.	No. 66 , Sec. 3 , Xin
500101010	YouBike2.0_新生南路三段82號前	大安區	2024-09-27 00:31:17	新生南路三段82號	Daan Dist.	YouBike2.0_No. 82 , Sec. 3 , Xinsheng S. Rd.	No. 82 , Sec. 3 ,)
500101012	YouBike2.0_辛亥路一段30號前	大安區	2024-09-27 00:23:15	辛亥路一段30號	Daan Dist.	YouBike2.0_No. 30 , Sec. 1 , Xinhai Rd.	No. 30 , Sec. 1
500101013	YouBike2.0_和平復興路口西北側	大安區	2024-09-27 00:33:16	復興南路二段236號	Daan Dist.	YouBike2.0_Heping Fuxing Rd. Intersection (Northwe...	No. 236 , Sec. 2 ,
500101014	YouBike2.0_羅斯福路三段311號前	大安區	2024-09-27 00:33:16	羅斯福路三段311號	Daan Dist.	YouBike2.0_No. 311 , Sec. 3 , Roosevelt Rd.	No. 311 , Sec. 3 ,
500101015	YouBike2.0_大安運動中心停車場	大安區	2024-09-27 00:24:16	敦南街76巷28號	Daan Dist.	YouBike2.0_Taipei Da-an Sports Center Parking lot	No. 28 , Ln. 76
500101016	YouBike2.0_羅斯福路三段245號前	大安區	2024-09-27 00:28:14	羅斯福路三段245號	Daan Dist.	YouBike2.0_No. 245 , Sec. 3 , Roosevelt Rd.	No. 245 , Sec. 3 ,
500101018	YouBike2.0_温州公園	大安區	2024-09-27 00:35:17	羅斯福路三段283巷11號	Daan Dist.	YouBike2.0_Wenzhou Park	No. 11 , Ln. 283 , Sec
500101019	YouBike2.0_和平臥龍街口	大安區	2024-09-27 00:34:16	臥龍街1號	Daan Dist.	YouBike2.0_Heping Wolong St. Intersection	No. 1 , Wo
500101020	YouBike2.0_温州停車場	大安區	2024-08-13 07:53:15	新生南路三段54巷/温州街口	Daan Dist.	YouBike2.0_Wenzhou Parking Lot	Ln. 54 , Sec. 3 , Xinsheng S.
500101021	YouBike2.0_銘傳國小側門	大安區	2024-09-26 23:48:14	羅斯福路四段21號旁天橋下	Daan Dist.	YouBike2.0_Taipei Municipal MingChuan Elementary S...	No. 21 , Sec. 4 ,
500101022	YouBike2.0_捷運公館站(2號出口)	大安區	2024-09-27 00:34:16	捷運公館站(2號出口)外側	Daan Dist.	YouBike2.0_MRT Gongguan Sta. (Exit 2)	MRT Gongguan
500101023	YouBike2.0_第二學生活動中心	大安區	2024-09-27 00:31:17	羅斯福路四段107號(西南側)	Daan Dist.	YouBike2.0_2nd Student Activity Center	No. 107 , Sec. 4 , Roos
500101024	YouBike2.0_臺灣科技大學正門	大安區	2024-09-27 00:34:16	基隆路四段43號(臺灣科技大學正門旁小側門靠田徑場)	Daan Dist.	YouBike2.0_NTUST(Main Gate)	No. 43 , Sec. 4 ,
500101025	YouBike2.0_臺灣科技大學側門	大安區	2024-09-27 00:29:16	基隆路四段73巷與基隆路口	Daan Dist.	YouBike2.0_NTUST(Side Gate)	Ln. 73 , Sec. 4 , Keelu
500101026	YouBike2.0_公館公園	大安區	2024-09-27 00:16:17	羅斯福路四段113巷基隆路四段41巷口	Daan Dist.	YouBike2.0_Gongguan Park	Ln. 113 , Sec. 4 , Roosevelt I

Conduct “XY Table to Point”

The image illustrates the 'XY Table to Point' workflow in ArcGIS Pro through three sequential screenshots:

- Left Screenshot:** Shows the 'Create Points From Table' menu path. A context menu is open over the 'youbike_immediate.csv' table in the Contents pane, with 'Create Points From Table' > 'XY Table to Point' selected. A tooltip for 'XY Table to Point' explains: 'Creates a point feature class based on coordinate values stored in the selected table.'
- Middle Screenshot:** Shows the 'XY Table to Point' tool's parameter dialog. The 'Input Table' is set to 'youbike_immediate.csv', the 'Output Feature Class' is 'youbike_immediate_XYTableToPoint', the 'X Field' is 'longitude', the 'Y Field' is 'latitude', and the 'Coordinate System' is 'GCS_WGS_1984'. An 'OK' button is visible at the bottom right.
- Right Screenshot:** Shows the final result on the map. The 'youbike_immediate_XYTableToPoint' feature class is displayed as a dense cluster of brown points over the city area, alongside other map layers like 'World Topographic Map' and 'World Hillshade'.

Join & Spatial Join

Merge data from one shapefile to another

Open Attribute Table

The screenshot displays the ArcGIS Desktop interface. The main map area shows a geographic area with numerous green points representing bicycle stations. The attribute table for the selected layer is open, showing the following data:

OBJECTID	Shape	sno	sna	sarea	mday	ar	sareaen	snaen	aren	act	srcUpdateTim
1	Point	500101001	YouBike2.0_捷運科技大樓站	大安區	2024/9/27 上午 12:31:17	復興南路二段235號前	Daan Dist.	YouBike2.0_MRT Techn...	No. 235, Sec. 2, Fux...	1	2024/9/27 上午
2	Point	500101002	YouBike2.0_復興南路二段273號前	大安區	2024/9/27 上午 12:15:17	復興南路二段273號前	Daan Dist.	YouBike2.0_No.273, S...	No.273, Sec. 2, Fux...	1	2024/9/27 上午
3	Point	500101003	YouBike2.0_臺北大農小農門	大安區	2024/9/26 下午 11:42:16	和平東路二段96巷7號	Daan Dist.	YouBike2.0_NTUE Expe...	No. 7, Ln. 96, Sec. 2...	1	2024/9/27 上午
4	Point	500101004	YouBike2.0_和平公園東側	大安區	2024/9/27 上午 12:28:16	和平東路二段118巷33號	Daan Dist.	YouBike2.0_Heping Par...	No. 33, Ln. 118, Sec...	1	2024/9/27 上午
5	Point	500101005	YouBike2.0_辛亥復興路口西北側	大安區	2024/9/27 上午 12:29:16	復興南路二段368號	Daan Dist.	YouBike2.0_Xinhai Fuxi...	No. 368, Sec. 2, Fux...	1	2024/9/27 上午
6	Point	500101006	YouBike2.0_復興南路二段280號前	大安區	2024/9/27 上午 12:07:17	復興南路二段280號	Daan Dist.	YouBike2.0_No. 280, ...	No. 280, Sec. 2, Fux...	1	2024/9/27 上午
7	Point	500101007	YouBike2.0_復興南路二段340巷口	大安區	2024/9/27 上午 12:35:14	復興南路二段342號	Daan Dist.	YouBike2.0_Ln. 340, S...	No. 342, Sec. 2, Fux...	1	2024/9/27 上午
8	Point	500101008	YouBike2.0_新生南路三線52號前	大安區	2024/9/26 下午 11:56:18	新生南路三線52號	Daan Dist.	YouBike2.0_No. 52, S...	No. 52, Sec. 3, Xins...	1	2024/9/27 上午
9	Point	500101009	YouBike2.0_新生南路三線66號前	大安區	2024/9/27 上午 12:23:17	新生南路三線66號東側	Daan Dist.	YouBike2.0_No. 66, S...	No. 66, Sec. 3, Xins...	1	2024/9/27 上午
10	Point	500101010	YouBike2.0_新生南路三線82號前	大安區	2024/9/27 上午 12:31:17	新生南路三線82號	Daan Dist.	YouBike2.0_No. 82, S...	No. 82, Sec. 3, Xins...	1	2024/9/27 上午
11	Point	500101012	YouBike2.0_辛亥路一段30號前	大安區	2024/9/27 上午 12:23:15	辛亥路一段30號	Daan Dist.	YouBike2.0_No. 30, S...	No. 30, Sec. 1, Xinh...	1	2024/9/27 上午
12	Point	500101013	YouBike2.0_和平復興路口西北側	大安區	2024/9/27 上午 12:33:16	復興南路二段236號	Daan Dist.	YouBike2.0_Heping Fu...	No. 236, Sec. 2, Fux...	1	2024/9/27 上午
13	Point	500101014	YouBike2.0_羅斯福路三線311號前	大安區	2024/9/27 上午 12:33:16	羅斯福路三線311號	Daan Dist.	YouBike2.0_No. 311, ...	No. 311, Sec. 3, Ro...	1	2024/9/27 上午

Add Join to Merge MOI Data into YouBike

The screenshot illustrates the process of adding a join in ArcGIS Desktop. The 'Joins and Relates' menu is open, showing the 'Add Join' option. A tooltip explains: 'Join data to this layer or standalone table based on a common attribute.' The 'Contents' pane on the left shows the 'youbike_immediate' layer selected. The 'Tools' pane on the right shows the 'Add Join' tool selected. The 'Table' pane at the bottom displays the data for the 'youbike_immediate' layer.

sno	sna	sarea	md
500101001	YouBike2.0_捷運科技大樓站	大安區	202
500101002	YouBike2.0_復興南路二段273號前	大安區	202
500101003	YouBike2.0_國北敦大實小東側門	大安區	202
500101004	YouBike2.0_和平公園東側	大安區	202
500101005	YouBike2.0_辛亥復興路口西北側	大安區	202
500101006	YouBike2.0_復興南路二段280號前	大安區	202
500101007	YouBike2.0_復興南路二段340巷口	大安區	202
500101008	YouBike2.0_新生南路三段52號前	大安區	202
500101009	YouBike2.0_新生南路二段88號前	大安區	202
500101010	YouBike2.0_新生南路二段82號前	大安區	202
500101012	YouBike2.0_辛亥路一段30號前	大安區	202
500101013	YouBike2.0_和平復興路口西北側	大安區	202
500101014	YouBike2.0_羅斯福路二段311號前	大安區	202

Add Join to Merge MOI Data into YouBike

The screenshot displays the ArcGIS Desktop interface with the 'Add Join' dialog box open. The dialog is configured to join the 'youbike_immediate_XYTableToPoint' layer to the 'TOWN_MOI_1130718' layer using the 'TOWNNAME' field. The 'Keep all input records' option is checked, and the 'Index join fields' option is unchecked. The 'Validate Join' button is visible at the bottom of the dialog.

The background map shows a geographic area with several YouBike stations marked as green dots. Below the map, a data table is visible with the following columns: OBJECTID, Shape, sno, sna, and srcUpdateTime. The table contains 13 rows of data, including station names like 'YouBike2.0_捷運科技大樓站' and 'YouBike2.0_復興南路二段273號前'.

OBJECTID	Shape	sno	sna	srcUpdateTime
1	Point	500101001	YouBike2.0_捷運科技大樓站	2024/9/27 上午 12:35:14
2	Point	500101002	YouBike2.0_復興南路二段273號前	2024/9/26 下午 11:56:18
3	Point	500101003	YouBike2.0_臺北郵局小東門	2024/9/27 上午 12:23:17
4	Point	500101004	YouBike2.0_和平公園東側	2024/9/27 上午 12:23:15
5	Point	500101005	YouBike2.0_辛亥復興路口西北側	2024/9/27 上午 12:33:16
6	Point	500101006	YouBike2.0_復興南路二段280號前	2024/9/27 上午 12:33:16
7	Point	500101007	YouBike2.0_復興南路二段340巷口	2024/9/27 上午 12:33:16
8	Point	500101008	YouBike2.0_新生南路三段52號前	2024/9/27 上午 12:33:16
9	Point	500101009	YouBike2.0_新生南路三段66號前	2024/9/27 上午 12:33:16
10	Point	500101010	YouBike2.0_新生南路三段82號前	2024/9/27 上午 12:33:16
11	Point	500101012	YouBike2.0_辛亥路一段30號前	2024/9/27 上午 12:33:16
12	Point	500101013	YouBike2.0_和平復興路口西北側	2024/9/27 上午 12:33:16
13	Point	500101014	YouBike2.0_羅斯福路三段311號前	2024/9/27 上午 12:33:16

Results of “Add Join”

The screenshot displays the ArcGIS Desktop interface. The main map area shows a geographic distribution of green points, representing the results of an 'Add Join' operation. The bottom panel shows a data table with the following columns: time, infoDate, total, available_rent_bikes, latitude, longitude, available_return_bikes, FID, TOWNID, TOWNCODE, COUNTYNAME, TOWNNAME, TOWNENG, COUNTYID, and COUNT.

#	time	infoDate	total	available_rent_bikes	latitude	longitude	available_return_bikes	FID	TOWNID	TOWNCODE	COUNTYNAME	TOWNNAME	TOWNENG	COUNTYID	COUNT
1	9/27 上午 12:31:17	2024/9/27	28	5	25.02605	121.5436	22	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
2	9/27 上午 12:15:17	2024/9/27	21	9	25.02565	121.54357	12	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
3	9/26 下午 11:42:16	2024/9/26	16	11	25.02429	121.54124	4	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
4	9/27 上午 12:28:16	2024/9/27	11	3	25.02351	121.54282	8	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
5	9/27 上午 12:29:16	2024/9/27	16	2	25.02153	121.54299	14	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
6	9/27 上午 12:07:17	2024/9/27	27	4	25.02429	121.54328	23	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
7	9/27 上午 12:35:14	2024/9/27	11	0	25.02253	121.54326	10	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
8	9/26 下午 11:56:18	2024/9/26	17	2	25.02112	121.53407	14	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
9	9/27 上午 12:23:17	2024/9/27	16	7	25.01976	121.53384	9	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
10	9/27 上午 12:31:17	2024/9/27	20	15	25.01894	121.53361	5	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
11	9/27 上午 12:23:15	2024/9/27	8	8	25.01966	121.52982	0	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
12	9/27 上午 12:33:16	2024/9/27	9	3	25.02543	121.54332	6	152	A02	63000030	臺北市	大安區	Da'an District	A	63000
13	9/27 上午 12:33:16	2024/9/27	11	4	25.01717	121.53202	7	152	A02	63000030	臺北市	大安區	Da'an District	A	63000

Add Spatial Join to Merge Village Data

The screenshot shows the ArcGIS Desktop interface with the 'Add Spatial Join' dialog box open. The dialog box is titled 'Add Spatial Join' and contains the following options:

- Add Join
- Remove Join
- Remove All Joins
- Add Spatial Join
- Add Relate
- Remove Relate
- Remove All Relates

The 'Add Spatial Join' option is selected, and a tooltip is visible over it with the text: 'Create a spatial join. Joins attributes from one feature to another based on the spatial relationship.'

Below the dialog box, a table of station data is visible. The table has the following columns: StationName, StationPosition_X, StationPosition_Y, StationAddress, BikeAllowOnHoliday, and UpdateTime. The table contains 13 rows of data.

StationName	StationPosition_X	StationPosition_Y	StationAddress	BikeAllowOnHoliday	UpdateTime
{動物園, Taipei Zoo}	121.579501	24.998205	'11656臺北市文山區新...	0	20170525
	21.573127	24.99824	'11656臺北市文山區基木...	0	20170525
	21.568088	24.99857	'11653臺北市文山區萬...	0	20170525
	21.558092	24.99932	'11696臺北市文山區興...	0	20170525
	21.557046	25.005455	'11694臺北市文山區羊...	0	20170525
'BR06'	121.558834	25.018495	'10676臺北市大安區和...	0	20170525
'BR07'	121.55302	25.02381	'10674臺北市大安區和...	0	20170525
'BR08'	121.543462	25.02612	'10667臺北市大安區復...	0	20170525
'BR09,R05'	121.54237	25.03311	文湖線: 10683臺北市...	0	20170525
'BR10,BL15'	121.545026	25.041749	文湖線: 10654臺北市...	0	20170525
'BR12'	121.544215	25.06085	'10476臺北市中山區復...	0	20170525
'BR13'	121.55201	25.062908	'10576臺北市松山區敦...	0	20170525
'BR14'	121.54679	25.07943	'10465臺北市中山區北...	0	20170525

Add Spatial Join to Merge Village Data

The screenshot displays the ArcGIS Pro software interface. The 'Add Spatial Join' dialog box is open, showing the following configuration:

- Target Features:** 臺北捷運車站資料服務_NEW_XYTableToPoint
- Join Features:** VILLAGE_NLSC_121_1130807
- Keep All Target Features
- Match Option:** Intersect
- Permanently Join Fields
- Search Radius:** [Empty] Decimal Degrees
- Fields:** Matching Attributes

The background map shows a geographic area with several points representing station locations. Below the map, a data table is visible with the following columns and data:

OBJECTID	Shape	SEQNO	StationID	StationName	OnHoliday	UpdateTime			
1	Point	1	'BR01'	'動物園,Taipei Zoo'	0	20170525			
2	Point	2	'BR02'	'木柵,Muzha'	0	20170525			
3	Point	3	'BR03'	'萬芳社區,Wanfang C...	0	20170525			
4	Point	4	'BR04'	'萬芳聖院,Wanfang H...	0	20170525			
5	Point	5	'BR05'	'辛亥,Xinhai'	0	20170525			
6	Point	6	'BR06'	'觀光,Linguangj'	0	20170525			
7	Point	7	'BR07'	'六張犁,Liuzhangli'	121.55302	25.02381	'10674臺北市大安富和...	0	20170525
8	Point	8	'BR08'	'科技大樓,Technology...	121.543462	25.02612	'10667臺北市大安富復...	0	20170525
9	Point	9	'BR09,R05'	'大安,Daan'	121.54237	25.03311	'文湖線: 10683臺北市...	0	20170525
10	Point	10	'BR10,BL15'	'忠孝復興,Zhongxiao...	121.545026	25.041749	'文湖線: 10654臺北市...	0	20170525
11	Point	11	'BR12'	'中山國中,Zhongshan...	121.544215	25.06085	'10476臺北市中山富復...	0	20170525
12	Point	12	'BR13'	'松山機場,Songshan A...	121.55201	25.062908	'10576臺北市松山富敦...	0	20170525
13	Point	13	'BR14'	'大直,Dazhi'	121.54679	25.07943	'10465臺北市中山臺北...	0	20170525

Results of "Add Spatial Join"

The screenshot shows the ArcGIS Desktop interface with the 'Add Spatial Join' tool results. The map displays a dense cluster of green points representing the joined data. The 'Contents' pane on the left shows the layer 'youbike_immediate_XYTableToPoint' selected. The 'Catalog' pane on the right shows the project files. The 'Table' view at the bottom displays a data table with columns for BikeAllowOnHoliday, UpdateTime, OBJECTID, Join_Count, TARGET_FID, VILLCODE, COUNTYNAME, TOWNNAME, VILLNAME, VILLENG, COUNTYID, COUNTYCODE, and TOWNID.

BikeAllowOnHoliday	UpdateTime	OBJECTID	Join_Count	TARGET_FID	VILLCODE	COUNTYNAME	TOWNNAME	VILLNAME	VILLENG	COUNTYID	COUNTYCODE	TOWNID
1	0	20170525	1	1	63000080035	臺北市	文山區	萬興里	Wanxing Vil.	A	63000	A11
2	0	20170525	2	1	63000080034	臺北市	文山區	博嘉里	Bojia Vil.	A	63000	A11
3	0	20170525	3	1	63000080039	臺北市	文山區	萬美里	Wanmei Vil.	A	63000	A11
4	0	20170525	4	1	63000080014	臺北市	文山區	興光里	Xingguang Vil.	A	63000	A11
5	0	20170525	5	1	63000080021	臺北市	文山區	興泰里	Xingtai Vil.	A	63000	A11
6	0	20170525	6	1	63000030048	臺北市	大安區	聚和里	Lihe Vil.	A	63000	A02
7	0	20170525	7	1	63000030044	臺北市	大安區	芬和里	Fanghe Vil.	A	63000	A02
8	0	20170525	8	1	63000030036	臺北市	大安區	群賢里	Qunxian Vil.	A	63000	A02
9	0	20170525	9	1	63000030022	臺北市	大安區	龍鳳里	Longtu Vil.	A	63000	A02
10	0	20170525	10	1	63000030010	臺北市	大安區	光武里	Guangwu Vil.	A	63000	A02
11	0	20170525	11	1	63000040028	臺北市	中山區	江寧里	Jiangning Vil.	A	63000	A10
12	0	20170525	12	1	63000010010	臺北市	松山區	精忠里	Jingzhong Vil.	A	63000	A01
13	0	20170525	13	1	63000040016	臺北市	中山區	永安里	Yong'an Vil.	A	63000	A10

Calculate Geometry

Calculate Geometry and Add Field

Add Field for Creating a New Column

The screenshot displays the ArcGIS Desktop interface. The main map area shows a geographic distribution of green points. The 'Contents' pane on the left lists several layers, with 'TOWN_MOL_1130718' selected. The 'Catalog' pane on the right shows the project structure, including a folder for 'VectorData' and a sub-folder for 'TOWN_MOL_1130718'. The 'Table' view at the bottom shows a data table with the following columns: FID, Shape, TOWNID, TOWNCODE, COUNTYNAME, TOWNNAME, TOWNENG, COUNTYID, and COUNTYCODE. The table contains 12 rows of data, representing different townships and cities in Taiwan.

FID	Shape	TOWNID	TOWNCODE	COUNTYNAME	TOWNNAME	TOWNENG	COUNTYID	COUNTYCODE
1	Polygon	V02	10014020	屏東縣	成功鎮	Chenggoong Township	V	10014
2	Polygon	T21	10013210	屏東縣	佳冬鄉	Jiadong Township	T	10013
3	Polygon	P13	10009130	雲林縣	麥寮鄉	Mailiao Township	P	10009
4	Polygon	V11	10014110	屏東縣	麟鳳鄉	Ludao Township	V	10014
5	Polygon	V16	10014160	屏東縣	麟鳳鄉	Lanyu Township	V	10014
6	Polygon	N07	10007120	彰化縣	田中鎮	Tianzhong Township	N	10007
7	Polygon	N19	10007170	彰化縣	社頭鄉	Shetou Township	N	10007
8	Polygon	T14	10013140	屏東縣	竹田鄉	Zhutian Township	T	10013
9	Polygon	T05	10013050	屏東縣	萬丹鄉	Wandan Township	T	10013
10	Polygon	K13	10005160	苗栗縣	三灣鄉	Sanwan Township	K	10005
11	Polygon	J13	10004110	新竹縣	峨眉鄉	Emei Township	J	10004
12	Polygon	K14	10005110	苗栗縣	南庄鄉	Nanzhuang Township	K	10005
13	Polygon	Q12	10010010	嘉義縣	太保市	Taibao City	Q	10010

Add Field and Name “Area” with Double

The screenshot displays the ArcGIS Desktop interface. The 'Fields' table for the current layer 'TOWN_MOL_1130718' is shown below. The table has the following structure:

Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Default	Precision	Scale	Length	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FID	FID	Object ID	<input type="checkbox"/>	<input type="checkbox"/>	Numeric			0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shape	Shape	Geometry	<input type="checkbox"/>	<input type="checkbox"/>				0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNID	TOWNID	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	8
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNCODE	TOWNCODE	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYNAME	COUNTYNAME	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNNAME	TOWNNAME	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNENG	TOWNENG	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	39
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYID	COUNTYID	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYCODE	COUNTYCODE	Text	<input type="checkbox"/>	<input type="checkbox"/>				0	0	8
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area		Double	<input type="checkbox"/>	<input type="checkbox"/>						

Below the table, there is a link that says "Click here to add a new field."

Save Changes

The screenshot shows the ArcGIS Desktop interface with a map of a region containing numerous green and red points. A dialog box titled "Fields: Unsaved Changes Found" is displayed in the center, with a warning icon and the text: "Unresolved changes found in *Fields: TOWN_MOL_1130718. How would you like to proceed?". The dialog has three buttons: "Save", "Discard", and "Cancel".

The interface includes a ribbon with tabs for Project, Fields, Insert, Analysis, View, Share, and Help. The "Fields" tab is active, showing options for Filter Name, Filter Domain, Sort Ascending, Sort Descending, and Reset. The "Data" tab is also visible, showing options for New, Delete, and Data Engineering.

The Contents pane on the left shows the following layers:

- Map
- youbike_immediate_XYTableToPoint
- 臺北捷運車站資料服務_NEW_XYTableToPoint
- TOWN_MOL_1130718
- VILLAGE_NLSC_121_1130807
- World Topographic Map
- World Hillshade
- Standalone Tables
 - 臺北捷運車站資料服務_NEW.csv
 - youbike_immediate.csv

The Catalog pane on the right shows the following structure:

- Project
- Portal
- Computer
- Favorites
- Search Project
- Maps
- Toolboxes
- Databases
- Styles
- Folders
 - VectorData
 - VectorData.gdb
 - .backups
 - busstop
 - GpMessages
 - ImportLog
 - VectorData_index
 - 村(里)界(TWD97_121分帶)1130807
 - 鄉(鎮、市、區)界線檔(TWD97經緯...
 - Town_Majia_Sanhe.shp
 - TOWN_MOL_1130718.shp
 - TW-07-301000100G-614001.xml
 - VectorData.atbx
 - youbike_data.json
 - youbike_immediate.json
 - 113年6月行政區人口統計_村里_區...
 - MARK_捷運車站_1130216.csv
 - youbike_immediate.csv
 - 臺北捷運車站資料服務_NEW.csv
- Locators

The Current Layer pane shows the following fields for TOWN_MOL_1130718:

Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Default	Precision	Scale	Length
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FID	FID	Object ID	<input type="checkbox"/>	<input type="checkbox"/>	Numeric		0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shape	Shape	Geometry	<input type="checkbox"/>	<input type="checkbox"/>			0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNID	TOWNID	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	8
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNCODE	TOWNCODE	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYNAME	COUNTYNAME	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNNAME	TOWNNAME	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWNENG	TOWNENG	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	39
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYID	COUNTYID	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	COUNTYCODE	COUNTYCODE	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	8
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area		Double	<input type="checkbox"/>	<input type="checkbox"/>					

Click here to add a new field.

Results of "Add Field"

The screenshot displays the ArcGIS Desktop interface. The main map window shows a geographic area with numerous green points representing data features. The 'Contents' pane on the left lists several layers, with 'TOWN_MOL_1130718' selected. The 'Catalog' pane on the right shows the project structure, including folders for 'VectorData' and 'Locators'. The 'Table' view at the bottom displays a data table with the following columns: FID, Shape, TOWNID, TOWNCODE, COUNTYNAME, TOWNNAME, TOWNENG, COUNTYID, COUNTYCODE, and Area. The table contains 13 rows of data, with the first row (FID 0) representing a polygon with no area.

FID	Shape	TOWNID	TOWNCODE	COUNTYNAME	TOWNNAME	TOWNENG	COUNTYID	COUNTYCODE	Area
0	Polygon	V02	10014020	臺東縣	成功鎮	Chenggong Township	V	10014	0
2	1 Polygon	T21	10013210	屏東縣	佳冬鄉	Jiandong Township	T	10013	0
3	2 Polygon	P13	10009130	雲林縣	麥寮鄉	Mailsiao Township	P	10009	0
4	3 Polygon	V11	10014110	臺東縣	綠島鄉	Lüdao Township	V	10014	0
5	4 Polygon	V16	10014160	臺東縣	蘭嶼鄉	Lanyu Township	V	10014	0
6	5 Polygon	N07	10007120	彰化縣	田中鎮	Tianzhong Township	N	10007	0
7	6 Polygon	N19	10007170	彰化縣	社壇鄉	Shetou Township	N	10007	0
8	7 Polygon	T14	10013140	屏東縣	竹田鄉	Zhutian Township	T	10013	0
9	8 Polygon	T05	10013050	屏東縣	萬丹鄉	Wandan Township	T	10013	0
10	9 Polygon	K13	10005160	苗栗縣	三灣鄉	Sanwan Township	K	10005	0
11	10 Polygon	J13	10004110	新竹縣	峨眉鄉	Emei Township	J	10004	0
12	11 Polygon	K14	10005110	苗栗縣	南庄鄉	Nanzhuang Township	K	10005	0
13	12 Polygon	Q12	10010010	嘉義縣	太保市	Taibao City	Q	10010	0

Calculate Geometry

The screenshot shows the QGIS interface with the 'Calculate Geometry' tool open. The tool's context menu is visible, showing options like 'Sort Ascending', 'Sort Descending', 'Custom Sort', 'Fields', 'Hide Field', 'Freeze/Unfreeze Field', 'Calculate Ffield', 'Calculate Geometry', 'Explore Statistics', 'Visualize Statistics', 'Summarize', and 'Delete'. The 'Calculate Geometry' option is highlighted.

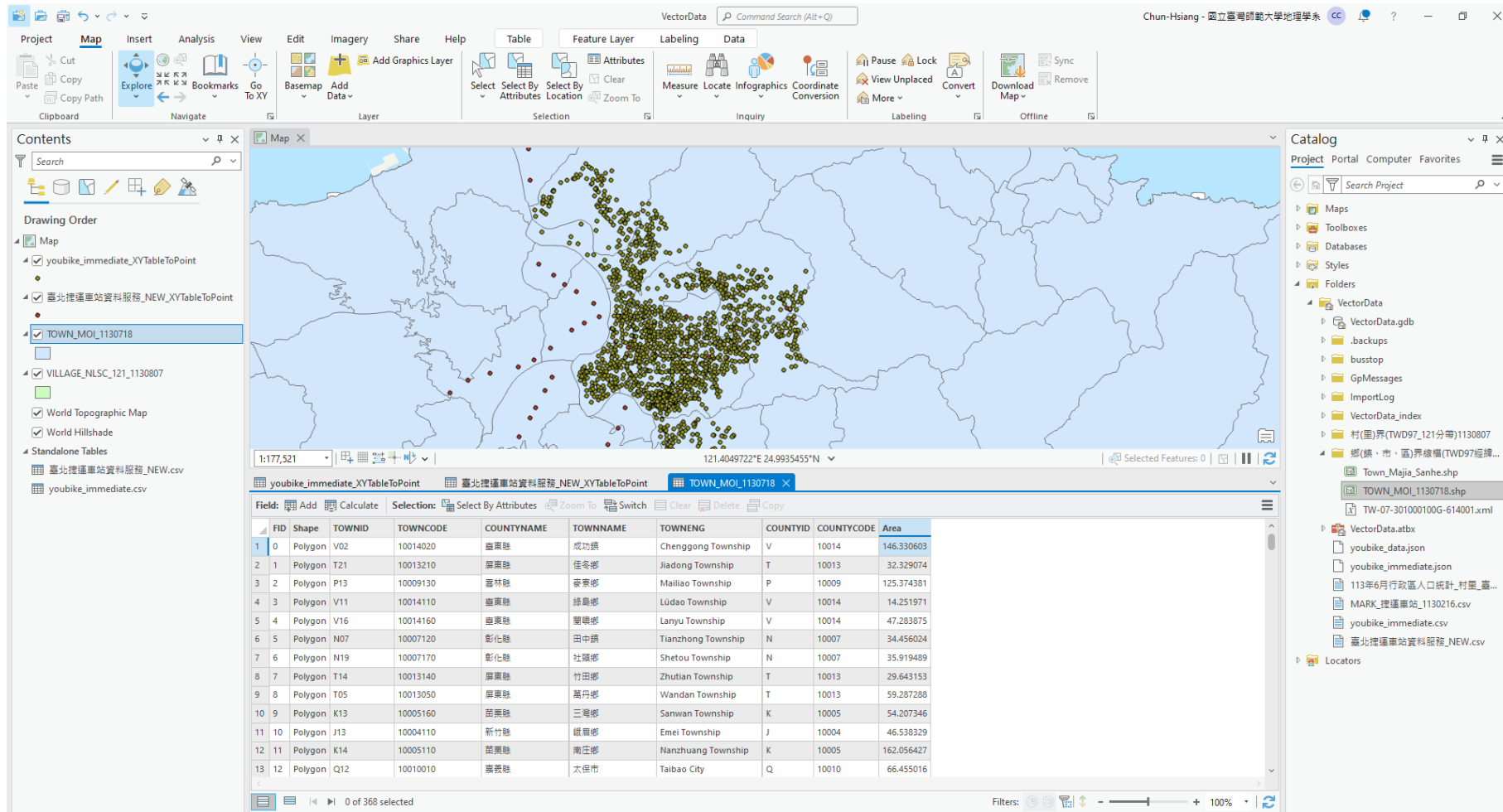
FID	Shape	TOWNID	TOWNCODE	COUNTYNAME	TOWNNAME	TOWNENG	COUNTYID	Area
0	Polygon	V02	10014020	苗栗縣	成功鎮	Chengong Township	V	10014
1	Polygon	T21	10013210	屏東縣	佳冬鄉	Jiandong Township	T	10013
2	Polygon	P13	10009130	雲林縣	麥寮鄉	Mailiao Township	P	10009
3	Polygon	V11	10014110	苗栗縣	綠島鄉	Lüdao Township	V	10014
4	Polygon	V16	10014160	苗栗縣	蘭陽鄉	Lanyu Township	V	10014
5	Polygon	N07	10007120	彰化縣	田中鎮	Tianzhong Township	N	10007
6	Polygon	N19	10007170	彰化縣	社頭鄉	Shetou Township	N	10007
7	Polygon	T14	10013140	屏東縣	竹田鄉	Zhutian Township	T	10013
8	Polygon	T05	10013050	屏東縣	萬丹鄉	Wandan Township	T	10013
9	Polygon	K13	10005160	苗栗縣	三灣鄉	Sanwan Township	K	10005
10	Polygon	J13	10004110	新竹縣	峨眉鄉	Emei Township	J	10004
11	Polygon	K14	10005110	苗栗縣	南庄鄉	Nanzhuang Township	K	10005
12	Polygon	Q12	10010010	苗栗縣	太保市	Taibao City	Q	10010

Calculate “Area” of Each Polygon

The screenshot displays the ArcGIS Desktop interface with the 'Calculate Geometry' tool open. The tool is configured to calculate the area of polygons in the 'TOWN_MOL_1130718' feature class. The 'Area' field is selected, and the 'Area (geodesic)' method is chosen. The 'Area Unit' is set to 'Square Kilometers' and the 'Coordinate System' is 'TWD97_OK'. The map shows a cluster of polygons in a central region. Below the map, a data table displays the results of the calculation.

FID	Shape	TOWNID	TOWNCODE	CO	COUNTYCODE	Area
1	0	Polygon V02	10014020	臺	10014	0
2	1	Polygon T21	10013210	屏	10013	0
3	2	Polygon P13	10009130	香	10009	0
4	3	Polygon V11	10014110	臺	10014	0
5	4	Polygon V16	10014160	臺	10014	0
6	5	Polygon N07	10007120	彰	10007	0
7	6	Polygon N19	10007170	彰	10007	0
8	7	Polygon T14	10013140	屏	10013	0
9	8	Polygon T05	10013050	屏	10013	0
10	9	Polygon K13	10005160	苗栗	10005	0
11	10	Polygon J13	10004110	新竹縣 峨眉鄉	10004	0
12	11	Polygon K14	10005110	苗栗縣 南庄鄉	10005	0
13	12	Polygon Q12	10010010	苗栗縣 大埔市	10010	0

Results of “Area” Calculation



Export Data

Selected Data Exportation

Select by Attributes :: Select “臺北市”

The screenshot displays the ArcGIS Desktop interface. The 'Select by Attributes' dialog box is open, showing the following configuration:

- Input Rows: VILLAGE_NLSC_121_1130807
- Selection Type: New selection
- Expression: COUNTYNAME = 臺北市
- Where clause: COUNTYNAME is equal to 臺北市

The map shows a green area with many brown dots representing selected features. The 'Contents' pane on the left shows the layer 'VILLAGE_NLSC_121_1130807' selected. The 'Catalog' pane on the right shows the project structure.

Field:	Add	Calculate	Selection:	Select by Attributes
TOWN	<Null>	<Null>		
V_ID	<Null>	<Null>		
1	<Null>	<Null>		
2	<Null>	<Null>		
3	<Null>	<Null>		
4	<Null>	<Null>		
5	<Null>	<Null>		
6	中山區	63000040-022		
7	<Null>	<Null>		
8	<Null>	<Null>		
9	<Null>	<Null>		
10	<Null>	<Null>	<Null>	<Null>
11	<Null>	<Null>	<Null>	<Null>
12	中正區	63000050-017	南門區	1100 2828
13	<Null>	<Null>	<Null>	<Null>

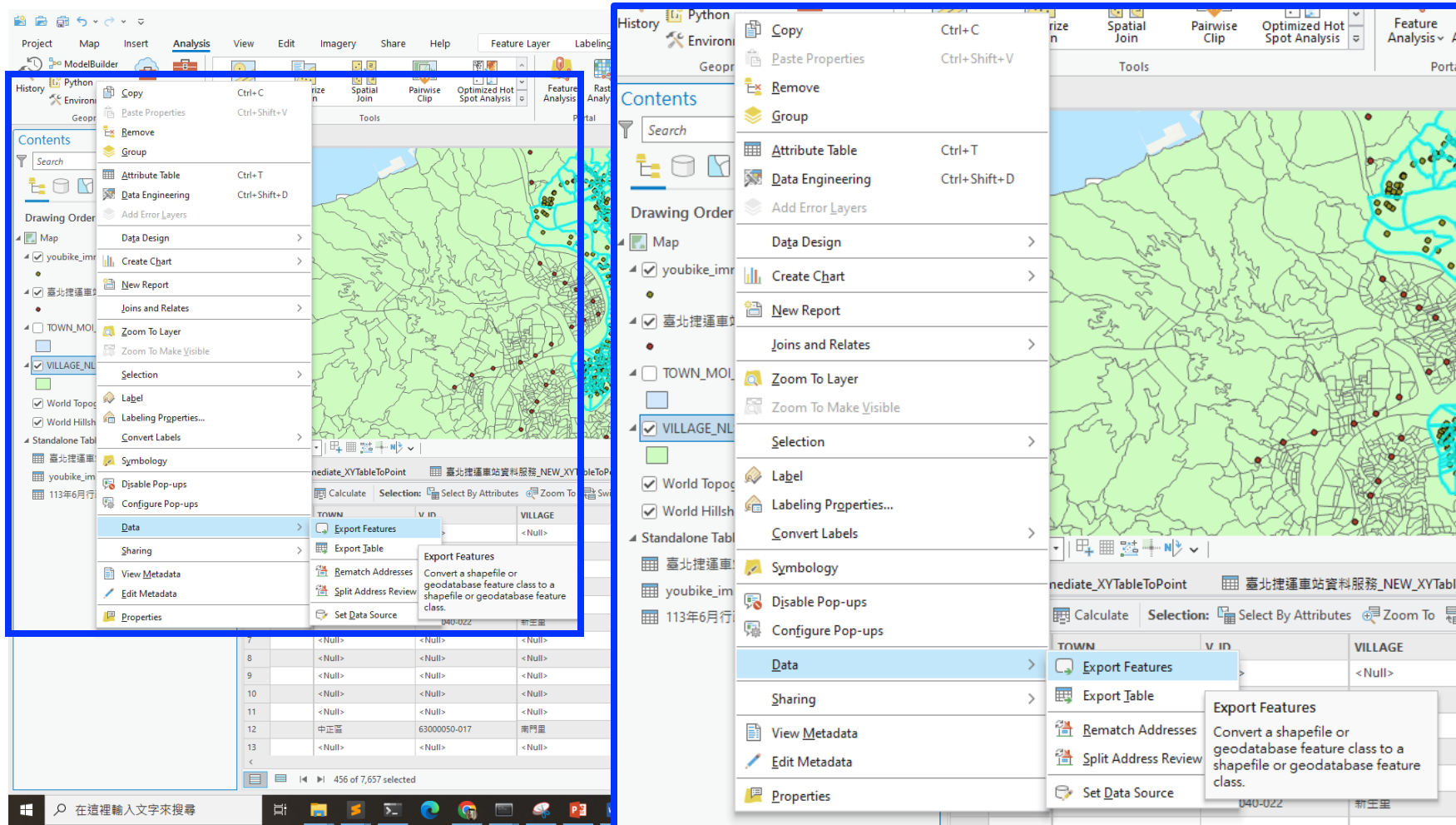
M_CNT	F_CNT	INFO_TIME	Area	PopDensity
<Null>	<Null>	<Null>	2.356118	0
<Null>	<Null>	<Null>	2.101252	0
<Null>	<Null>	<Null>	1.306342	0
<Null>	<Null>	<Null>	1.130975	0
<Null>	<Null>	<Null>	0.149004	0
1991	2303	113Y06M	0.149029	0
<Null>	<Null>	<Null>	0.703249	0
<Null>	<Null>	<Null>	1.158517	0
<Null>	<Null>	<Null>	2.023558	0
<Null>	<Null>	<Null>	0.314493	0
<Null>	<Null>	<Null>	1.497522	0
1316	1512	113Y06M	0.053835	0
<Null>	<Null>	<Null>	0.070917	0

Select by Attributes :: Select “臺北市”

The screenshot shows the ArcGIS Desktop interface with the 'Select by Attributes' tool active. The map displays a city area with a cyan selection overlay. The 'Contents' pane on the left shows the layer 'VILLAGE_NLSC_121_1130807' selected. The 'Catalog' pane on the right shows the project structure. The 'Field' pane at the bottom displays a table with columns: TOWN, V_ID, VILLAGE, H_CNT, P_CNT, M_CNT, F_CNT, INFO_TIME, Area, and PopDensity. The table shows data for various villages, with the '中山區' (Zhongshan District) row highlighted.

Field	Add	Calculate	Selection	Select by Attributes	Zoom To	Switch	Delete	Copy		
TOWN	V_ID	VILLAGE	H_CNT	P_CNT	M_CNT	F_CNT	INFO_TIME	Area	PopDensity	
1	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.356118	0	
2	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.101252	0	
3	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.306342	0	
4	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.130975	0	
5	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.149004	0	
6	中山區	63000040-022	新生里	2068	4294	1991	2303	113Y06M	0.149029	0
7	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.703249	0	
8	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.158517	0	
9	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.023558	0	
10	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.314493	0	
11	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.497522	0	
12	中正區	63000050-017	南門里	1100	2828	1316	1512	113Y06M	0.053835	0
13	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.070917	0	

Export Features



Export Features

Export Features

Parameters Environments

Input Features
VILLAGE_NLSC_121_1130807

Use the selected records: 456

Output Feature Class
臺北市村里圖.shp

> Filter
> Fields
> Sort

Field:	Add	Calculate	Selection	Select By Attributes	Zoom To
TOWN					
V_ID					
VILLAGE					
1	<Null>	<Null>	<Null>		
2	<Null>	<Null>	<Null>		
3	<Null>	<Null>	<Null>		
4	<Null>	<Null>	<Null>		
5	<Null>	<Null>	<Null>		
6	中山區	63000040-022	新生里		
7	<Null>	<Null>	<Null>	<Null>	<Null>
8	<Null>	<Null>	<Null>	<Null>	<Null>
9	<Null>	<Null>	<Null>	<Null>	<Null>
10	<Null>	<Null>	<Null>	<Null>	<Null>
11	<Null>	<Null>	<Null>	<Null>	<Null>
12	中正區	63000050-017	南門里	1100	2828
13	<Null>	<Null>	<Null>	<Null>	<Null>

F_CNT	INFO_TIME	Area	PopDensity
<Null>	<Null>	2.356118	0
<Null>	<Null>	2.101252	0
<Null>	<Null>	1.306342	0
<Null>	<Null>	1.130975	0
<Null>	<Null>	0.149004	0
2303	113Y06M	0.149029	0
<Null>	<Null>	0.703249	0
<Null>	<Null>	1.158517	0
<Null>	<Null>	2.023558	0
<Null>	<Null>	0.314493	0
<Null>	<Null>	1.497522	0
1512	113Y06M	0.053835	0
<Null>	<Null>	0.070917	0

Results of Feature Exportation

The screenshot displays the ArcGIS Desktop interface. The main map shows a geographic area with a feature layer of points (green dots) overlaid on a light green background. The interface includes a toolbar at the top with various tools like 'Pairwise Buffer', 'Summarize Within', and 'Feature Analysis'. On the left, the 'Contents' pane shows a list of layers, with 'Taipei_village' selected. On the right, the 'Catalog' pane shows a project structure with folders like 'VectorData' and 'Locators'. At the bottom, a data table is visible, showing columns for 'TOWN', 'V_ID', 'VILLAGE', 'H_CNT', 'P_CNT', 'M_CNT', 'F_CNT', 'INFO_TIME', 'Area', and 'PopDensity'. The table contains 10 rows of data, with the first row having a PopDensity of 0 and the last row having a PopDensity of 0.314493.

Field	TOWN	V_ID	VILLAGE	H_CNT	P_CNT	M_CNT	F_CNT	INFO_TIME	Area	PopDensity
1	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.356118	0
2	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.101252	0
3	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.306342	0
4	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.130975	0
5	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.149004	0
6	中山區	63000040-022	新生里	2068	4294	1991	2303	113Y06M	0.149029	0
7	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.703249	0
8	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	1.158517	0
9	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	2.023558	0
10	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	<Null>	0.314493	0

Export Features

- Do again for Taiwan Town Data

The screenshot displays the ArcGIS Desktop interface. The main map shows a geographical area of Taiwan with a red polygon and green points. The Contents pane on the left lists layers, with 'Taipei_town' selected. The Catalog pane on the right shows the project structure. At the bottom, a data table is visible with the following columns: FID, Shape, TOWNID, TOWNCODE, COUNTYNAME, TOWNNAME, TOWNENG, COUNTYID, COUNTYCODE, Area, and PopDensity.

FID	Shape	TOWNID	TOWNCODE	COUNTYNAME	TOWNNAME	TOWNENG	COUNTYID	COUNTYCODE	Area	PopDensity	
1	0	Polygon	V02	10014020	苗栗縣	成功鎮	Chenggong Township	V	10014	146.330603	0
2	1	Polygon	T21	10013210	屏東縣	佳冬鄉	Jiadong Township	T	10013	32.329074	0
3	2	Polygon	P13	10009130	雲林縣	麥寮鄉	Maliao Township	P	10009	125.374381	0
4	3	Polygon	V11	10014110	苗栗縣	綠島鄉	Lüdao Township	V	10014	14.251971	0
5	4	Polygon	V16	10014160	苗栗縣	龍巖鄉	Lanyu Township	V	10014	47.283875	0
6	5	Polygon	N07	10007120	彰化縣	田中鎮	Tianzhong Township	N	10007	34.456024	0
7	6	Polygon	N19	10007190	彰化縣	社頭鄉	Shetou Township	N	10007	35.919489	0
8	7	Polygon	T14	10013140	屏東縣	竹田鄉	Zhutian Township	T	10013	29.643153	0
9	8	Polygon	T05	10013050	屏東縣	萬丹鄉	Wandan Township	T	10013	59.287288	0
10	9	Polygon	K13	10005160	苗栗縣	三灣鄉	Sanwan Township	K	10005	54.207346	0

Type Conversion & Field Calculation

Calculate Population Density

Add Field and Name with “POP”

The screenshot shows the ArcGIS Desktop interface with the 'Fields' table for the 'Taipei_village' layer. The table contains the following fields:

Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Default	Precision	Scale	Length
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWN_ID	TOWN_ID	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOWN	TOWN	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	V_ID	V_ID	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	VILLAGE	VILLAGE	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	H_CNT	H_CNT	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	P_CNT	P_CNT	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	M_CNT	M_CNT	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	F_CNT	F_CNT	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	INFO_TIME	INFO_TIME	Text	<input type="checkbox"/>	<input type="checkbox"/>			0	0	254
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area	Area	Double	<input type="checkbox"/>	<input type="checkbox"/>	Numeric		0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PopDensity	PopDensity	Double	<input type="checkbox"/>	<input type="checkbox"/>	Numeric		0	0	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	POP		Double	<input type="checkbox"/>	<input type="checkbox"/>					

Text data cannot process numeric calculation

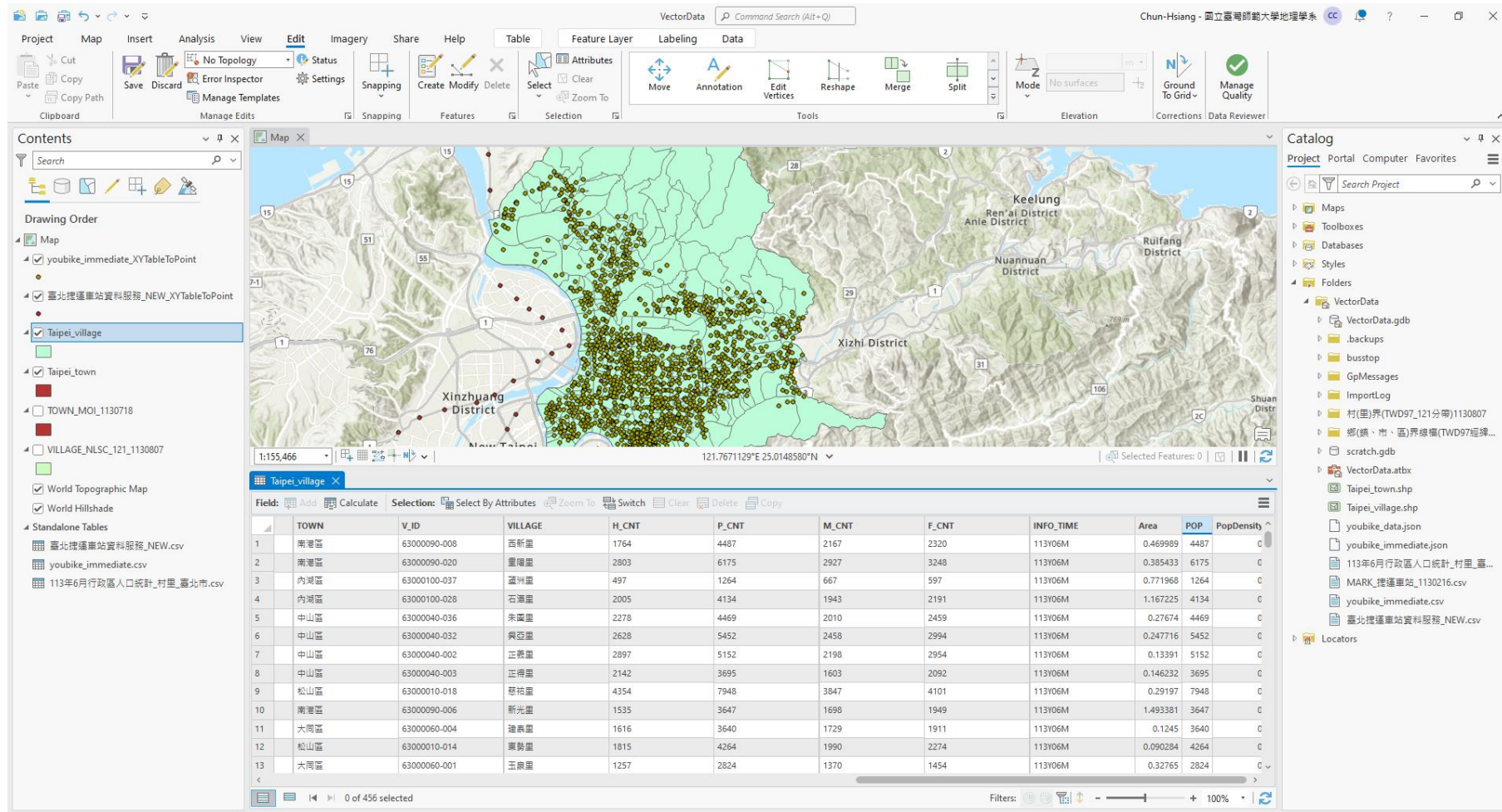
Calculate Field and Type Conversion

The screenshot displays the ArcGIS Desktop interface with the 'Calculate Field' dialog box open. The dialog is configured for the 'Taipi_village' layer, with the field name 'PopDensity' and the expression type set to 'Python'. The expression is `!P_CNT!`. The dialog also shows a list of available fields and functions.

The 'Taipi_village' layer is selected in the Contents pane, and its data table is visible at the bottom of the interface. The table has the following columns: F_CNT, INFO_TIME, Area, POP, and PopDensity. The data is as follows:

F_CNT	INFO_TIME	Area	POP	PopDensity
2320	113Y06M	0.469989	0	0
3248	113Y06M	0.385433	0	0
597	113Y06M	0.771968	0	0
2191	113Y06M	1.167225	0	0
2459	113Y06M	0.27674	0	0
2994	113Y06M	0.247716	0	0
2954	113Y06M	0.13391	0	0
2092	113Y06M	0.146232	0	0
4101	113Y06M	0.29197	0	0
1949	113Y06M	1.493381	0	0
1911	113Y06M	0.1245	0	0
2274	113Y06M	0.090284	0	0
1454	113Y06M	0.32765	0	0

Results of Numeric POP



Use “Calculate Field” to Calculate “PopDensity”

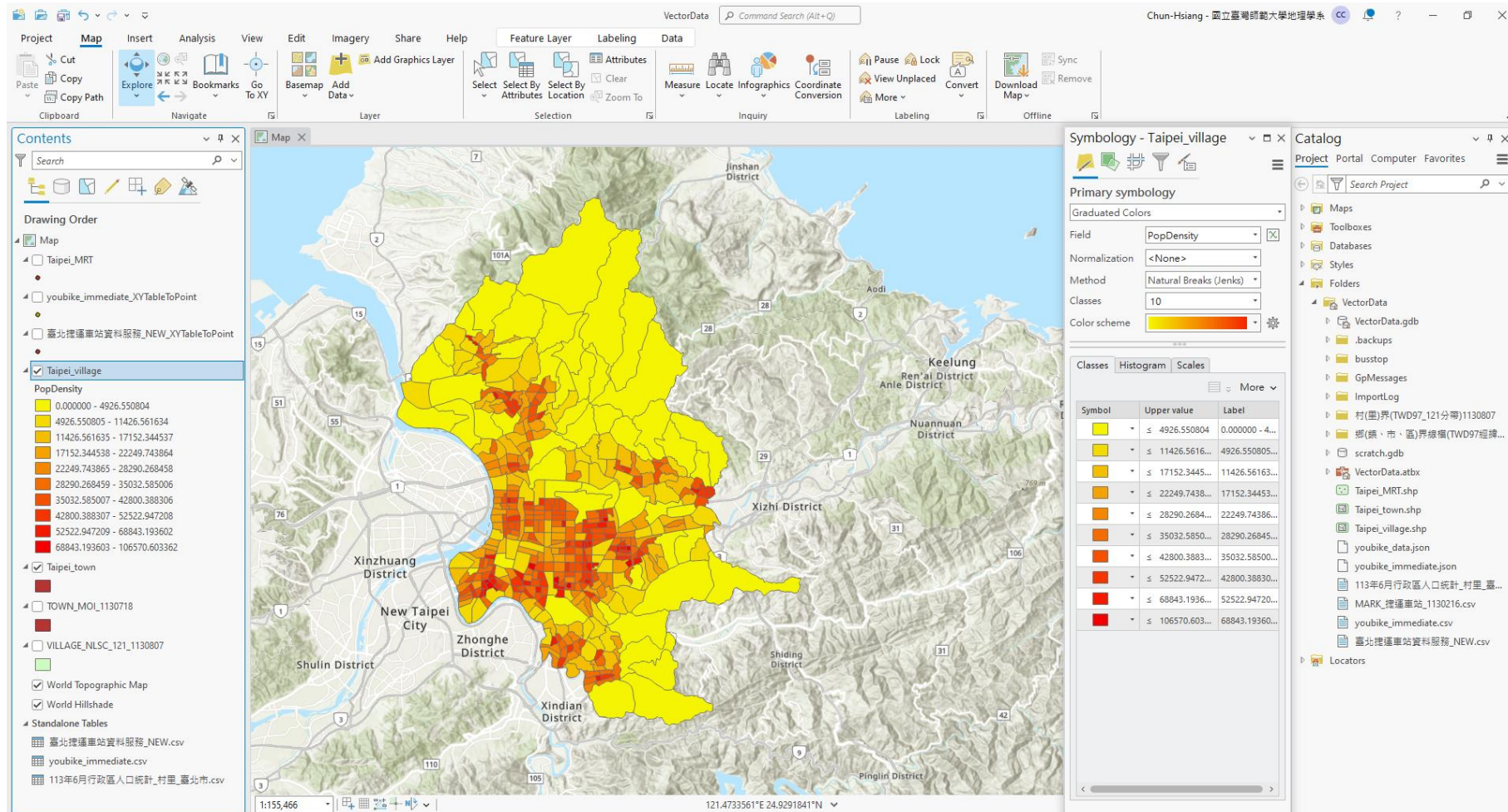
The screenshot shows the ArcGIS Desktop interface with the 'Calculate Field' tool open. The tool window displays a table with the following data:

TOWN	V_ID	VILLAGE	H_CNT	P_CNT	M_CNT	F_CNT	INFO_TIME	Area	POP	PopDensity
1	63000090-008	西新里	1764	4487	2167	2320	113Y06M	0.469989	4487	9547.0217
2	63000090-020	重陽里	2803	6175	2927	3248	113Y06M	0.385433	6175	16020.96
3	63000100-037	溢洲里	497	1264	667	597	113Y06M	0.771968	1264	1637.3737
4	63000100-028	石港里	2005	4134	1943	2191	113Y06M	1.167225	4134	3541.7350
5	63000040-036	朱園里	2278	4469	2010	2459	113Y06M	0.27674	4469	16148.7463
6	63000040-032	興亞里	2628	5452	2458	2994	113Y06M	0.247716	5452	22009.105
7	63000040-002	正興里	2897	5152	2198	2954	113Y06M	0.13391	5152	38473.6815
8	63000040-003	正德里	2142	3695	1603	2092	113Y06M	0.146232	3695	25268.048
9	63000010-018	慈祐里	4354	7948	3847	4101	113Y06M	0.29197	7948	27221.9291
10	63000090-006	新光里	1535	3647	1698	1949	113Y06M	1.493381	3647	2442.1090
11	63000060-004	進泰里	1616	3640	1729	1911	113Y06M	0.1245	3640	29236.8877
12	63000010-014	東勢里	1815	4264	1990	2274	113Y06M	0.090284	4264	47228.5336
13	63000060-001	玉貞里	1257	2824	1370	1454	113Y06M	0.32765	2824	8618.9416

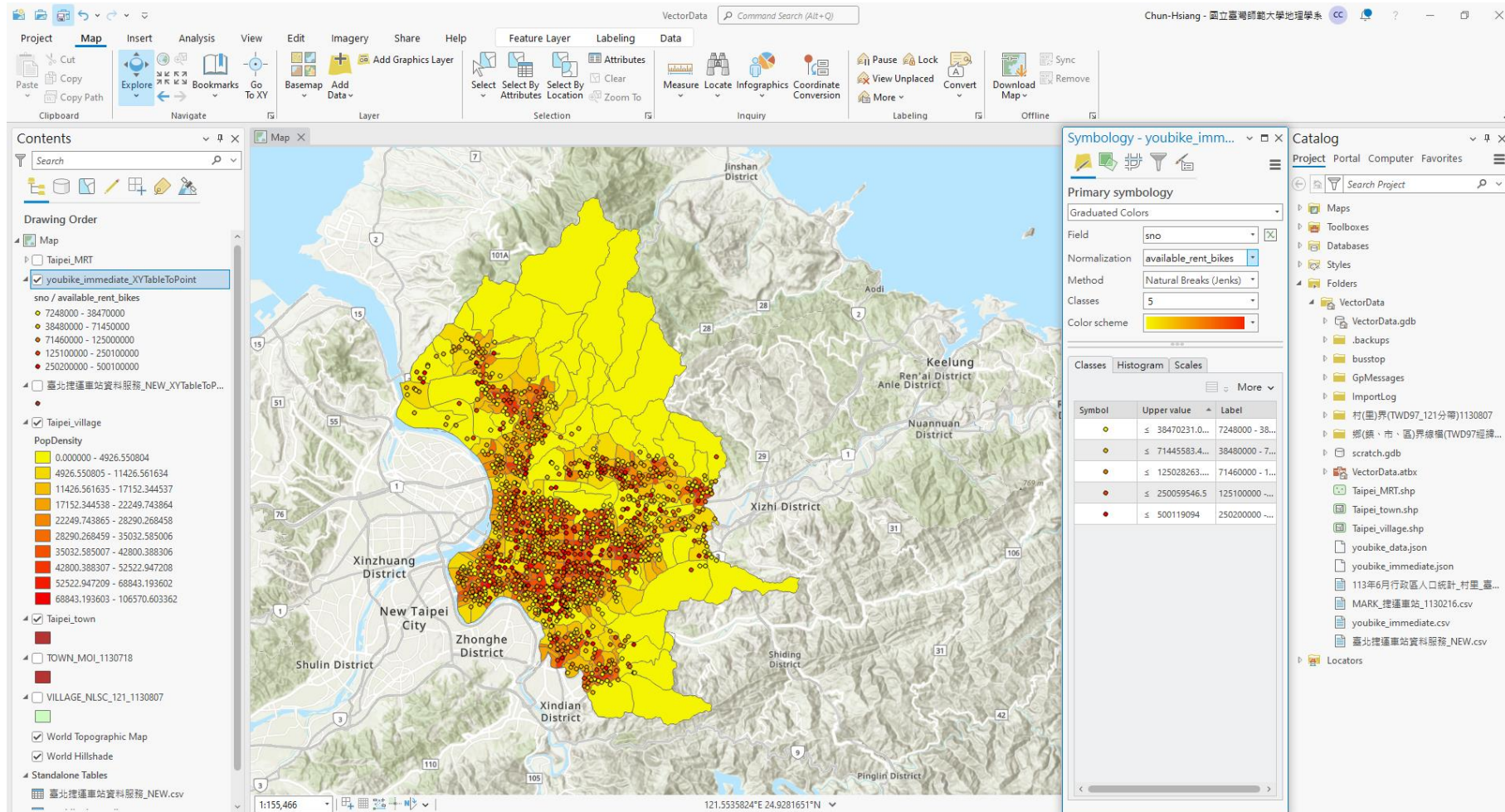
Symbology

YouBike Rental
Population Density

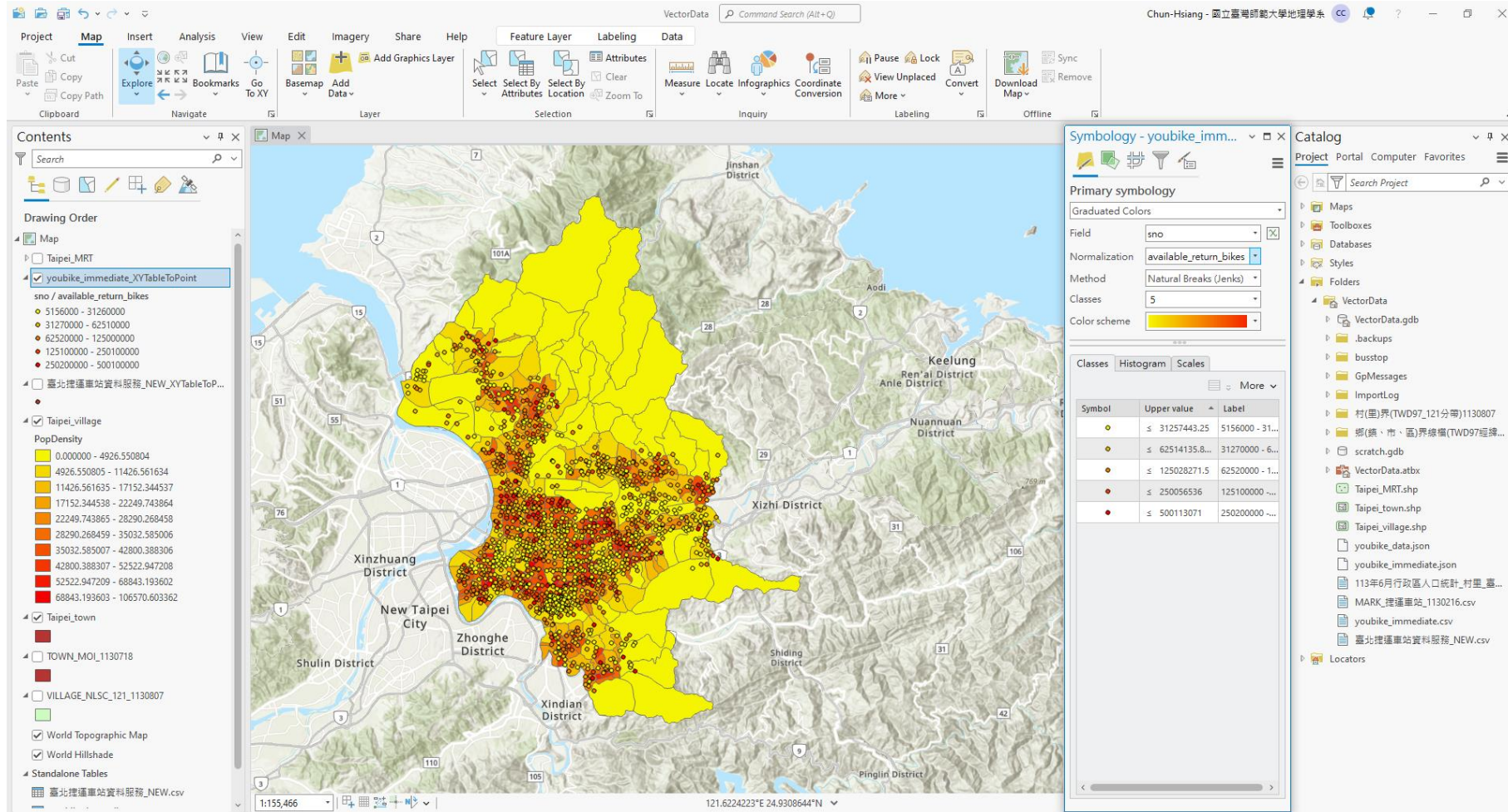
Population Density Distribution



YouBike Rent Distribution



YouBike Return Distribution





The End

Thank you for your attention!

| Email: chchan@ntnu.edu.tw
Web: toodou.github.io