

# PChome

Agilelearning, Mansun Kuo

2016-05-14

```
library(data.table)
library(RSQLite)
```

```
## Loading required package: DBI
```

```
library(DT)
```

Read a data.table with fread:

```
res_dt = fread("dataio/pchome.csv")
```

Create a RSQLite database:

```
con = dbConnect(SQLite(), "dataio/pchome.sqlite")
dbListTables(con)
```

```
## [1] "pchome"
```

Drop table if exist:

```
if (dbExistsTable(con, "pchome")) {
  dbRemoveTable(con, "pchome")
}
```

```
## [1] TRUE
```

Write data.frame to table:

```
dbWriteTable(con, "pchome", res_dt)
```

```
## [1] TRUE
```

List tables:

```
dbListTables(con)
```

```
## [1] "pchome"
```

List fields of a table:

```
dbListFields(con, "pchome")
```

```
## [1] "Id"      "cateId"  "picS"    "picB"    "name"
## [6] "describe" "price"   "author"  "brand"   "publishDate"
## [11] "isPick"
```

Read whole table:

```
pchome = dbReadTable(con, "pchome")

# solve encoding issue in Windows:
if (.Platform$OS.type == "windows"){
  pchome = apply(pchome, 2, iconv, from = "UTF-8", to = "UTF-8")
}
```

Display with DT::datatable:

```
datatable(pchome)
```

Show  entries

Search:

	Id	cateId	picS	picB	name	de:
1	DYAD2O-A9006JDQE	DYAD2O	/pic/v1/data/item/201510/D/Y/A/D/2/O/SDYAD2O-A9006JDQE000_560e037b08db2.jpg	/pic/v1/data/item/201604/D/Y/A/D/2/O/DYAD2O-A9006JDQE000_57198b2dc111b.jpg	SONY Xperia Z5	超值 16G 電源 ▼SC Xper 5.2吋 水旗

	Id	catelId	picS	picB	name	des
2	DYAD2R-A9006XKSI	DYAD2R	/pic/v1/data/item/201604/D/Y/A/D/2/R/sDYAD2R-A9006XKSI000_56fe3f0b20c2e.jpg	/pic/v1/data/item/201605/D/Y/A/D/2/R/DYAD2R-A9006XKSI000_572ff4b5655b1.jpg	SONY Xperia Z5 Premium	▼送手機玻璃SON Xper Pren
3	DPAE03-A9006RR9X	DPAE03	/pic/v1/data/item/201601/D/P/A/E/0/3/sDPAE03-A9006RR9X000_56970708b9924.jpg	/pic/v1/data/item/201601/D/P/A/E/0/3/DPAE03-A9006RR9X000_56970708b6c29.jpg	Sony 行動微型投影機 MP-CL1	Sony 微型 MP-1
4	DYAD2R-A900776LD	DYAD2R	/pic/v1/data/item/201604/D/Y/A/D/2/R/sDYAD2R-A900776LD000_5718b07ab2c7c.jpg	/pic/v1/data/item/201604/D/Y/A/D/2/R/DYAD2R-A900776LD000_571f33630a4e5.jpg	SONY Xperia Z5 Premium玫瑰石英粉	▼送掀專▼SC Xper Pren 瑰石
5	DGBT30-A900649ND	DYQA6	/pic/v1/data/item/201505/D/G/B/T/3/0/sDGBT30-A900649ND000_5567e78207366.jpg	/pic/v1/data/item/201604/D/G/B/T/3/0/DGBT30-A900649ND000_5715927991a26.jpg	SONY SBH70 (防水IP57)無線藍牙耳機	SON SBH 水IP 藍牙
6	DYAD2J-A9006I085	DYAD2J	/pic/v1/data/item/201509/D/Y/A/D/2/J/sDYAD2J-A9006I085000_55f7f34abd5c9.jpg	/pic/v1/data/item/201509/D/Y/A/D/2/J/DYAD2J-A9006I085000_55f7f34aba324.jpg	Sony Xperia C5 Ultra E5553 6吋八核自拍機	送保玻璃Sony C5 L E555 八核
7	DGBJA7-19006PWRS	DGBJA7	/pic/v1/data/item/201512/D/G/B/J/A/7/sDGBJA7-19006PWRS000_56712b0b85546.jpg	/pic/v1/data/item/201512/D/G/B/J/A/7/DGBJA7-19006PWRS000_56712b0b84290.jpg	SONY PS4 主機 CUH-1207A系列 500G(極致黑)	雙手邊SC PS4 CUH 系列 (極致
8	DYAD24-A9006WKHJ	DYAD24	/pic/v1/data/item/201603/D/Y/A/D/2/4/sDYAD24-A9006WKHJ000_56eba5c8977ce.png	/pic/v1/data/item/201603/D/Y/A/D/2/4/DYAD24-A9006WKHJ000_56eba5c894517.jpg	【福利品】Sony Xperia C3 D2533 5.5吋四核心智慧型手機	★限※售【福 Sony C3 L 5.5吋智慧
9	DGBJA7-19006Y7WE	DGBJA7	/pic/v1/data/item/201604/D/G/B/J/A/7/sDGBJA7-19006Y7WE000_570b66cabed1d.jpg	/pic/v1/data/item/201604/D/G/B/J/A/7/DGBJA7-19006Y7WE000_570b66cabb68e.jpg	SONY PS4 主機 CUH-1207B系列 1TB(極致黑)	1T+選+R SON 主機 1207 1TB(
10	DYAI01-A9005ZOP5	DYAI01	/pic/v1/data/item/201503/D/Y/A/I/0/1/sDYAI01-A9005ZOP5000_5515279fe5451.jpg	/pic/v1/data/item/201503/D/Y/A/I/0/1/DYAI01-A9005ZOP5000_5515279fe2d94.jpg	SONY SmartWatch 3 SWR50 防水智慧手錶(金屬錶帶)	[現降 SON Sma 3 SV 防水 錶(金帶)

Showing 1 to 10 of 20 entries

Previous

1

2

Next

You can fetch results with SQL statement:

```
res = dbSendQuery(con, "SELECT * FROM pchome WHERE price > 10000")
pchome2 = dbFetch(res)
if (.Platform$OS.type == "windows"){
  pchome2 = apply(pchome2, 2, iconv, from = "UTF-8", to = "UTF-8")
}
str(pchome2)
```

```
## 'data.frame': 12 obs. of 11 variables:
## $ Id : chr "DYAD2O-A9006JDQE" "DYAD2R-A9006XKSI" "DPAE03-A9006RR9X" "DYAD2R-A900776LD" ...
## $ cateId : chr "DYAD2O" "DYAD2R" "DPAE03" "DYAD2R" ...
## $ picS : chr "/pic/v1/data/item/201510/D/Y/A/D/2/O/sDYAD2O-A9006JDQE000_560e037b08db2.jpg" "/pic/v1/data/item/201604/D/Y/A/D/2/R/sDYAD2R-A9006XKSI000_56fe3f0b20c2e.jpg" "/pic/v1/data/item/201601/D/P/A/E/0/3/sDPAE03-A9006RR9X000_56970708b9924.jpg" "/pic/v1/data/item/201604/D/Y/A/D/2/R/sDYAD2R-A900776LD000_5718b07ab2c7c.jpg" ...
## $ picB : chr "/pic/v1/data/item/201604/D/Y/A/D/2/O/DYAD2O-A9006JDQE000_57198b2dc111b.jpg" "/pic/v1/data/item/201605/D/Y/A/D/2/R/DYAD2R-A9006XKSI000_572ff4b5655b1.jpg" "/pic/v1/data/item/201601/D/P/A/E/0/3/DPAE03-A9006RR9X000_56970708b6c29.jpg" "/pic/v1/data/item/201604/D/Y/A/D/2/R/DYAD2R-A900776LD000_571f33630a4e5.jpg" ...
## $ name : chr "SONY Xperia Z5" "SONY Xperia Z5 Premium" "Sony 行動微型投影機 MP-CL1" "SONY Xperia Z5 Premium玫瑰石英粉" ...
## $ describe : chr "超值▼送16G卡+行動電源▼SONY Xperia Z5 5.2吋美型防水旗艦機" "▼送32G卡+手機立架+玻璃貼SONY Xperia Z5 Premium" "Sony 行動微型投影機 MP-CL1" "▼送Kitty側掀專用皮套▼SONY Xperia Z5 Premium玫瑰石英粉" ...
## $ price : int 16900 19900 11900 20900 12980 14080 17900 13480 16777 12890 ...
## $ author : int NA NA NA NA NA NA NA NA NA NA ...
## $ brand : int NA NA NA NA NA NA NA NA NA NA ...
## $ publishDate: int NA NA NA NA NA NA NA NA NA NA ...
## $ isPick : int 0 0 0 0 0 0 0 0 0 0 ...
```

```
dbClearResult(res)
```

```
## [1] TRUE
```

Or a chunk at a time:

```
res = dbSendQuery(con, "SELECT * FROM pchome WHERE price > 10000")
while(!dbHasCompleted(res)){
  chunk = dbFetch(res, n = 5)
  print(nrow(chunk))
}
```

```
## [1] 5
## [1] 5
## [1] 2
```

Clear the result:

```
dbClearResult(res)
```

```
## [1] TRUE
```

Disconnect from the database:

```
dbDisconnect(con)
```

```
## [1] TRUE
```