

```
In [5]: bankrupt.count()

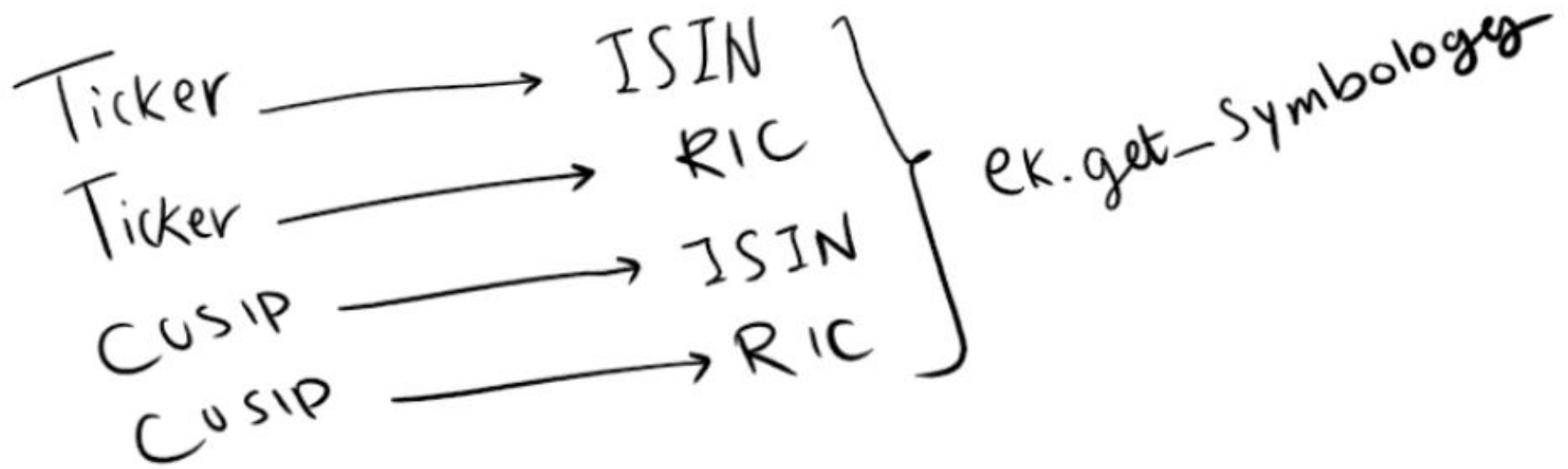
Out[5]: Identifier      112
        Company         112
        Data Deletion Date 112
        Deletion Reason  112
        Ticker          112
        CUSIP           112
        CIK             100
        dtype: int64
```

Start with
Compustat data
with 112 Bankrupt
companies + 112 Tickers
+ 112 CUSIPs + 100 CIKs

and
companies with healthy
20783
20761 Tickers
+ 20765 CUSIPs
+ 14761 CIKs

```
In [7]: healthy.count()

Out[7]: Identifier      20783
        Company         20783
        Data Deletion Date 20783
        Deletion Reason    8453
        Ticker            20761
        CUSIP             20765
        CIK               14761
        dtype: int64
```



Companies list

			ISIN(tic)	ISIN(cusip)	RIC(tic)	RIC(cusip)
Company A			NAN	NAN	NAN	CH^KI3
Company B			US1023112810	US1023112810	TEK^CU2	EST001



	~	~	ISIN	ISIN _c	RIC	RIC _c
Company A			NAN	0	CH^KI3	1
Company B			US1023112810	0	TEK^CU2 - EST001	3

```
In [14]: bankrupt.count()

Out[14]: Identifier      112
         Company         112
         Data Deletion Date 112
         Deletion Reason  112
         Ticker          112
         CUSIP           112
         CIK             100
         ISIN            111
         ISINc           112
         RIC             62
         RICc            112
         dtype: int64
```

```
In [23]: bankrupt.ISINc.value_counts()

Out[23]: 0    93
         1    19
         Name: ISINc, dtype: int64
```

```
In [24]: bankrupt.RICc.value_counts()

Out[24]: 1    61
         0    51
         Name: RICc, dtype: int64
```

112 Companies
 111 ISINs
 from which 19 have mild conflicts
 and 62 RICs from which 51 have mild conflicts

20783 healthy companies
 19580 ISINs
 and 7931 mild inconsistency
 204 serious
 10493 RICs
 8659 mild
 146 serious

```
In [32]: healthy.count()

Out[32]: Identifier      20783
         Company         20783
         Data Deletion Date 20783
         Deletion Reason   8453
         Ticker          20761
         CUSIP           20765
         CIK             14761
         ISIN            19580
         ISINc           20783
         RIC             10493
         RICc            20783
         dtype: int64
```

```
In [34]: healthy.ISINc.value_counts()

Out[34]: 0    12648
         1     7931
         3      204
         Name: ISINc, dtype: int64
```

```
In [35]: healthy.RICc.value_counts()

Out[35]: 0    11978
         1     8659
         3      146
         Name: RICc, dtype: int64
```

Converting CUSIP to ISIN → an international thing

The code is an
exclusively
North American
identifier

$$\text{ISIN} = \frac{\text{US}}{\text{CA}} + \text{CUSIP} + \boxed{?}$$

↑
one single digit

for NA companies

we can calculate $\boxed{?}$ using CUSIP & the country code



ISIN	CUSIP	ISIN	ISIN _e	RIC	...
---	---	---	---	---	---

	ISIN	Cusip	ISIN	ISIN _c
A	NAN	US1023810811		0
B	US1023710711	US1023710711		0
C	CA1112356101	CA1112356101		1
D	CA7124900110	US7673125901		1
E	US9870021861	US9870021861		3
F	-US9860011111			3
Z	CA2150436701	CA0093754210		*
B'	-US0091203611	NAN		0
	*	US1095426811	CA1189700111	



NO CUSIP or no
Country code
available

	ISIN	ISIN _c
A	US1023810811	1
B	US1023710711	0
C	CA1112356101	0.5
D	CA7120021861 - US7673125901	3
E	US9870021861	1
F	CA2150436701 - US0091203611 - CA0093754210	4
Z	*	*
B'	US1095426811 - CA1189700111	3

Bankrupt before

Inconsistency cases of the bankrupt dataframe:

0	93
1	19

Name: ISINc, dtype: int64

Bankrupt after

Inconsistency cases of the bankrupt dataframe:

0	104
3	4
.5	3
1	1

Name: ISINc, dtype: int64

Healthy before

Inconsistency cases of the healthy dataframe:

0	12648
1	7931
3	204

Name: ISINc, dtype: int64

Healthy after

Inconsistency cases of the healthy dataframe:

0	17680
1	1523
3	817
.5	743
4	20

Name: ISINc, dtype: int64

My Drive > Bankruptcy > Financial Data



Name ↓

public_company_bankruptcy_cases_2011.csv

public_company_bankru

public_company_bankru

guide_ReutersFundame

Financial Ratio list

Example_Eikon_appleInc

Example_Eikon_compar

Eikon User Guide.pdf

Data Sources

bankrupt_companies_without_parent_cases.csv

1.healthy_list

1.bankrupt_list

Identifier	A	B	C	D	E	F	G	H	I	J	K	L
1	Identifier	Company	Data Deletion Date	Deletion Reason	Ticker	CUSIP	CIK	ISIN	ISINc	RIC	RICc	Countr
24	001429	American Crystal Sugar Co	07/23/2013	10.0	2388B	025303108	000000482	FRBNPP014G34 - US0253031084	3	FRBNPP014G34 PA	1	US
25	001448	American Express Credit Corp	-	-	AXP1	025818006	000000496	ARDEUT110046 - US0258180068	3	AXPh.BA	1	US
26	001742	Arizona Public Service Co	-	-	PNW1	040555005	000000728	CA89156L1085 - US0405550056	3	-	0	US
27	001976	Baker Hughes Inc	07/05/2017	1.0	BHI	057224107	0000808362	US05722G1004 - US0572241075	3	ABX.TO	0	US
28	002055	Barrick Gold Corp	-	-	GOLD	067901108	0000756894	CA0679011084 - US0679011082	3	ABX.TO	1	US
29	002141	Bell Canada	02/20/2008	10.0	BCE1	078149002	0000225090	CA05534B7604 - CA0781490028	3	-	0	CA
30	002369	Brookfield Asset Management	-	-	BAM	112585104	0001001085	CA1125851040 - US1125851048	3	BAMa.TO	1	US
31	002484	Burlington Coat Factory Inve	-	-	0015B	121579932	0000718916	NL0013666365 - US1215799321	3	NL0013666365 PA	1	US
32	003039	Duke Energy Ohio Inc	-	-	CIN1	172070005	0000020290	IE00B564MX78 - US1720700053	3	CIN1.LAJ13	1	US
33	003221	Aon plc	-	-	AON	G0408V102	0000315290	GB00B5BT0K07 - USG0408V1029	3	-	0	US
34	003389	LegalZoom.com Inc	01/07/2014	10.0	LGZ	52466B103	0001286135	PLLGGZCT00013 - US52466B1035	3	LGZ.WA	1	US
35	003392	Connecticut Light & Power Co	-	-	NU1	207597006	0000023426	TRMNU1WWWWWW0 - US2075970069	3	-	0	US

+ Eikon itself
+ ...

isindb.com

Businessinsider.com
+ Google

manually improving...

→ isin.com/contact-us/

Subject

ISINs in CSV Format

Phone

Body *

name and their ISINs, so we could run a code

1
 → plus I wrote something to somewhere so they let us use their ISIN database; still waiting for their answer.

2
 though, in the meantime,

+	<u>1.healthy_list_v2</u>	...
+	1.healthy_list	...
+	<u>1.bankrupt_list_v2</u>	...
+	1.bankrupt_list	...

Searched for
 I filled all missing
 Bankrupt companies' RICs
 using eikon
 (11 are still missing)

3
 and we don't have any 3-ISIN healthy companies
 But about 1,500 ones have 1,500 double-ISIN

Still working on this...

4

almost all possible

Now that we have more ISINs
we ~~can~~ use Eikon method ex. get-Symbology

Because at the end of the day
it's only RIC that let us
download data from Eikon.