Company Relationships

Xpressfeed User Guide

S&P Global
Market Intelligence

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Table of Contents

Document Overview 1
What You Will Find in This Manual 1
Who Should Read This Manual 1
Supporting Documentation 1
Executive Summary 3
Collection and Coverage 3
Company Relationships Schema 4
Linking to S&P Capital IQ Base Files 4
Basic Company 4
Table Descriptions 5
Company Relationships Table 5
Company Relationship Type Table 6
Appendix A: Sample Query Solutions 9
Revision History 17
Index 18

Document Overview

What You Will Find in This Manual

- The data structure of the Company Relationships package, including a schema, tables, and all other tangible components of the data
- The relationship of Company Relationships to the S&P Capital IQ Base Files and Transactions packages
- Common ways of querying the Company Relationships packages with SQL examples

Who Should Read This Manual

This manual is for use by Xpressfeed clients utilizing the Loader and those who are directly downloading the files from the FTP server and writing their own loading procedures.

The Xpressfeed Loader generates a database schema and structure and loads Company Relationships as a set of fully indexed tables. The Loader includes functionality to automate the daily updates of Company Relationships and, thus, keep your database up to date.

Supporting Documentation

- *Xpressfeed Loader User Guide,* which outlines the features and capabilities of the Xpressfeed Loader.
- *S&P Capital IQ Base Files User Guide,* which describes the type of data included in the Base files, the data structure of the Base Files and all other tangible components of the data, as well as integration of Base Files with other S&P Capital IQ data sets.
- *Transactions User Guide,* which describes the Transactions package that links directly to the Company Relationships package.

Executive Summary

The S&P Capital IQ Company Relationships package is a global database of all relationships that exist between companies in the S&P Capital IQ universe. Relationship types include acquisitions, investments, investment arms, lenders, affiliates, index providers, and more. The relationship is categorized as current, prior, pending or cancelled. For a full list of relationship types, see Table 3.

The Company Relationships package can be used to build a corporate family tree, determine the ultimate parent of a company, identify private equity sponsors, find current and prior investors in a company, and for many other uses.[1]

Collection and Coverage

S&P Capital IQ Company Relationships are collected and made available on a global basis. Sources include thousands of newspapers, trade publications, news aggregators, company filings and websites. In addition, all private equity sponsors are contacted at least once a year in an effort to have their records reviewed for accuracy and to obtain other information that may not be publicly available. The collection team is constantly expanding company relationships coverage based on client requests and processed transactions. Historical coverage for **prior** company relationships starts in the year 2000.

[1] Company Relationships also links to the Transactions package to define relationships for Merger/Acquisitions, Private Placements, Spin-offs, and other transactions. For more information on the Transactions package and how they link, see the *Transactions User Guide*.

Company Relationships Schema

The S&P Capital IQ Transactions database schema is normalized to eliminate data inconsistency and redundancy. Primary keys appear in bold font and are designated with the initials PK. All schemas reflect Xpressfeed Loader table names. The associated file name for Non-Xpressfeed Loader clients is given in parentheses beneath each table.

The Company Relationships schema is composed of two tables representing the **Company Relationship** and the **Company Relationship Type**.

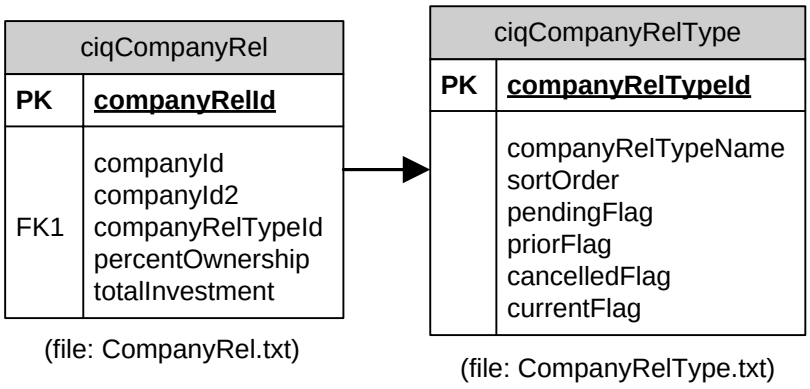


Figure 1. S&P Capital IQ Company Relationships Database Schema

Linking to S&P Capital IQ Base Files

Basic Company

The Basic Company File contains the company name, the *companyId*, primary ticker symbol, exchange, address information, company type, and year founded. The c*ompanyId* is used in Company Relationships and in all other S&P Capital IQ data sets to associate companies to items of S&P Capital IQ content. The **ciqCompanyRel** table has both a companyId and companyId2 which link to the Basic Company File.

More Information

For a more detailed discussion of the Base Files, please refer to the *S&P Capital IQ Base Files User Guide*.

Table Descriptions

This section contains a description of each table and table field in the Company Relationships schema.

Company Relationships Table

The **Company Relationships** table provides all company relationships according to parent company (*companyId*), child company (*companyId2*) and company relationship type.

ciqCompanyRel	
PK	**companyRelId**
FK1	companyId companyId2 companyRelTypeId percentOwnership totalInvestment

(file: CompanyRel.txt)

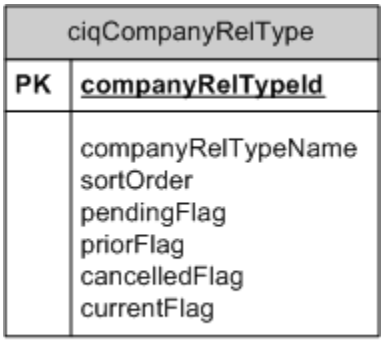
Table 1. Company Relationships fields

Column Name	Data Type	Comments
companyRelId	int	Unique identifier of the company relationship
companyId	int	The parent company involved in the relationship
companyId2	int	The child company involved in the relationship
companyRelTypeId	int	Unique identifier of the relationship type

percentOwnership	decimal(18,4)	Percentage stake the parent company has in the child company, if applicable to the relationship. If the relationship is a prior relationship, this is the percentage stake at the time of the relationship.
totalInvestment	decimal(18,4)	Total investment, in millions of USD, that the parent company invested in the child company at the time the relationship was enacted (this is only given if applicable to the relationship).

Company Relationship Type Table

Company Relationship Type is a reference table that provides the textual description of the company relationship type, including whether it is a current, prior, pending or cancelled relationship.



(file: CompanyRelType.txt)

Table 2. Company Relationship Type fields

Column Name	Data Type	Comments
companyRelTypeId	int	Unique identifier of the company relationship type
companyRelTypeName	varchar(50)	Description of the relationship the child company has to the parent company. The pattern for this type begins with “Current”, “Pending,” “Prior,” or “Cancelled” and ends with the type of relationship. For example, “Current Investment” indicates the child company is a current investment of the parent company. A full list of relationship types are given in Table 3.
sortOrder	int	Order the **ciqCompanyRelType** table by *sortOrder*, to group relationship types according to the last part of the relationship type name (Investment, Investment Arm, Affiliate, etc.)

Column Name	Data Type	Comments
pendingFlag	bit	Flag indicating the relationship is pending (1 if pending).
priorFlag	bit	Flag indicating a past relationship (1 if prior).
cancelledFlag	bit	Flag indicating the relationship was cancelled (1 if cancelled).
currentFlag	bit	Flag indicating the relationship is a currently active relationship (1 if current).

Table 3. All Company Relationship Types (by sortOrder)

companyRelTypeId	companyRelTypeName
25	Pending Acquisition/Investment
1	Current Investment
2	Prior Investment
26	Cancelled Acquisition/Investment
5	Current Subsidiary/Operating Unit *
6	Prior Subsidiary/Operating Unit *
7	Merged Entity
9	Current Investment Arm
12	Prior Investment Arm
10	Current Affiliate
24	Prior Affiliate
11	Current Fund Investor
19	Prior Fund Investor
37	Cancelled Fund Investor
14	Prior Auditor
16	Prior Legal
17	Current Fund Sponsor
23	Prior Fund Sponsor
20	Current Investment Group
21	Prior Investment Group
22	Fund Family Member
31	Current Lender
32	Prior Lender
40	Current Index Provider
41	Prior Index Provider
33	Previous Version
34	Current Fund Investment Advisor
35	Prior Fund Investment Advisor
42	Pending Lender
43	Cancelled Lender
38	Current Affiliated Government Institution
39	Prior Affiliated Government Institution

* Note that subsidiaries are determined by the parent owning more than 50% equity in the child company. Otherwise the child company is considered an investment.

Appendix A: Sample Query Solutions

This section provides sample queries and solutions for S&P Capital IQ Company Relationships. All sample queries use SQL Server script.

For queries where the Transactions package is used with Company Relationships, refer to the Sample Query Solutions in the *S&P Capital IQ Transactions User Guide*.

All Pending Acquisition/Investments of Intel Corp. (INTC)

```
select
co1.companyName 'Parent Company'
,co2.companyName 'Child Company'
,crt.companyRelTypeName 'Relationship Type'
,cr.percentOwnership
,cr.totalInvestment

from ciqCompanyRel cr
join ciqCompanyRelType crt on crt.companyRelTypeId = cr.companyRelTypeId
join ciqCompany co1 on co1.companyId = cr.companyId
join ciqCompany co2 on co2.companyId = cr.companyId2

where
co1.tickerSymbol = 'INTC' --Intel Corp.
and crt.companyRelTypeId in(25) --company relationships of type Pending Acquisition/Investment
```

View Results:

Parent Company	Child Company	Relationship Type	percentOwnership	totalInvestment
Intel Corporation	Virtutech, Inc.	Pending Acquisition/Investment	NULL	NULL
Intel Corporation	Texas Instruments Inc., Cable Modem Product Line	Pending Acquisition/Investment	NULL	NULL
Intel Corporation	McAfee, Inc.	Pending Acquisition/Investment	NULL	NULL
Intel Corporation	Infineon Technologies AG, Wireless Solutions Business	Pending Acquisition/Investment	NULL	NULL

All Current or Prior Investments in Domain, Inc. (Private Company)

```
select

co1.companyName 'Parent Company'
,co2.companyName 'Child Company'
,crt.companyRelTypeName 'Relationship Type'
,cr.percentOwnership
,cr.totalInvestment

from ciqCompanyRel cr
join ciqCompanyRelType crt on crt.companyRelTypeId = cr.companyRelTypeId
join ciqCompany co1 on co1.companyId = cr.companyId
join ciqCompany co2 on co2.companyId = cr.companyId2

where
co2.companyId=27688 -- Domain, Inc. is child company
and crt.companyRelTypeId in(1,2) -- relationship type is Current or Prior Investment
order by cr.companyRelTypeId
```

View Results:

Parent Company	Child Company	Relationship Type	percentOwnership	totalInvestment
Aga Rangemaster Group plc	Domain, Inc.	Current Investment	15.0000	NULL
Synergy Enterprises, L.L.C.	Domain, Inc.	Current Investment	NULL	NULL
Bain Capital Private Equity	Domain, Inc.	Current Investment	NULL	NULL
The Travelers Companies, Inc., Investment Arm	Domain, Inc.	Current Investment	NULL	NULL
J.P. Morgan Partners, LLC	Domain, Inc.	Prior Investment	NULL	NULL
Bessemer Venture Partners	Domain, Inc.	Prior Investment	NULL	NULL
Chemical Equity Incorporated	Domain, Inc.	Prior Investment	NULL	NULL
Harvard Management Co., Inc.	Domain, Inc.	Prior Investment	NULL	NULL

All Companies that are Current Fund Sponsors

```
select
distinct c.companyname

from ciqCompanyRel cr
join ciqcompany c on c.companyid = cr.companyid

--company relationship type is Current Fund Sponsor
where cr.companyRelTypeId = 17

order by c.companyName
```

View Results:

companyname
.406 Ventures, LLC
@rgentum Management and Research Corporation
@Ventures
033 Asset Management LLC
10x Capital Management, LLC
1199 SEIU National Benefit and Pension Funds
123 Venture
1633 Broadway Mars Restaurant Corp., Asset Management Arm
17 Capital LLP
1st Financial Bank USA, Asset Management Arm
1to1 Venture Partners, LLC
2 Broadway Llc
21 Centrale Partners
21 Partners SGR S.p.A
2100 Capital Group
21st Century Group, LLC
21st Century Jobs Fund
250 Capital LLC
2bCapital
2i Capital (India) Private Limited
2i2c Asset Management
2M Companies, Inc.
...

Building a Corporate Tree for Green Mountain Coffee Roasters (GMCR)

```
--This is a recursive query that builds all lower branches of the corporate tree for a
--company

with corporateTree (levelNo, parentCo, parentId, childCo, childId, relationshipType, percentOwn,
totalInvestment) as

(
select
1
,parentCo1.companyName
,parent.companyId
,parentCo2.companyName
,parent.companyId2
,parentT.companyRelTypeName
,parent.percentOwnership
,parent.totalInvestment

from ciqCompanyRel parent
join ciqCompanyRelType parentT on parentT.companyRelTypeId = parent.companyRelTypeId
join ciqCompany parentCo1 on parentCo1.companyId = parent.companyId
join ciqCompany parentCo2 on parentCo2.companyId = parent.companyId2

where
parent.companyId = 334622 -- Green Mountain Coffee Roasters (GMCR) is parent
and parent.companyRelTypeId in (5,7,9,17,40)

union ALL -- combine parent and child queries to build corporateTree

select
treeInProcess.levelNo + 1 -- add to levelNo so we know what level companies are at in tree
,childCo1.companyName
,child.companyId
,childCo2.companyName
,child.companyId2
,childT.companyRelTypeName
,child.percentOwnership
,child.totalInvestment

from
corporateTree treeInProcess, --recursive reference
ciqCompanyRel child
join ciqCompanyRelType childT on childT.companyRelTypeId = child.companyRelTypeId
join ciqCompany childCo1 on childCo1.companyId = child.companyId
join ciqCompany childCo2 on childCo2.companyId = child.companyId2

where
child.companyId = treeInProcess.childId -- child companyId equals the childId of corporateTree
and child.companyRelTypeId in (5,7,9,17,40)
)

select levelNo, parentCo, parentId, childCo, childId, relationshipType, percentOwn,
totalInvestment
from corporateTree
order by levelNo, parentCo
```

View Results:

level No	parentCo	parentId	childCo	childId	relationshipType	percentOwn	totalInvestment
1	Green Mountain Coffee Roasters Inc.	334622	Frontier Organic Coffee	918268	Merged Entity	100.0000	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Keurig, Incorporated	30522	Current Subsidiary/Operating Unit	100.0000	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Green Mountain Coffee Roasters Franchising Corporation	24934440	Current Subsidiary/Operating Unit	NULL	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Tullys Coffee Corp., Tully's Coffee Brand and Wholesale Business	48932049	Merged Entity	100.0000	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Green Mountain Coffee Roasters Inc., Asset Management Arm	50085099	Current Investment Arm	NULL	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Timothy's Coffees of the World, Inc.	35594	Current Subsidiary/Operating Unit	100.0000	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Diedrich Coffee Inc.	354052	Current Subsidiary/Operating Unit	100.0000	NULL
1	Green Mountain Coffee Roasters Inc.	334622	Van Houtte Inc.	875568	Current Subsidiary/Operating Unit	100.0000	NULL
2	Diedrich Coffee Inc.	354052	Coffee People, Inc.	392783	Current Subsidiary/Operating Unit	100.0000	NULL
2	Diedrich Coffee Inc.	354052	Gloria Jean's Gourmet Coffees Corp.	4528520	Current Subsidiary/Operating Unit	100.0000	NULL
2	Diedrich Coffee Inc.	354052	Diedrich Coffee Inc., Asset Management Arm	51148121	Current Investment Arm	NULL	NULL
2	Green Mountain Coffee Roasters Inc., Asset Management Arm	50085099	Green Mountain Coffee Roasters Inc., Asset Management Arm (Unspecified Vehicle)	130092240	Current Fund Sponsor	NULL	NULL
2	Timothy's Coffees of the World, Inc.	35594	mmmuffins Canada Corporation	33596336	Current Subsidiary/Operating Unit	100.0000	NULL
2	Van Houtte Inc.	875568	Filterfresh Coffee Service, Inc.	1694907	Current Subsidiary/Operating Unit	NULL	NULL
2	Van Houtte Inc.	875568	Procter & Gamble Co., Millstone Gourmet Coffee Roasting Plant in Henderson, Kentucky	6950113	Merged Entity	100.0000	NULL
2	Van Houtte Inc.	875568	US Office Products Co, Office Coffee Business	1056375	Merged Entity	100.0000	NULL
2	Van Houtte Inc.	875568	The Alexandria Group, Coffee Service Operations	1074445	Merged Entity	100.0000	NULL
2	Van Houtte Inc.	875568	Alexandria Coffee Services LLC, Coffee Service Operations	9587998	Merged Entity	100.0000	NULL
2	Van Houtte Inc.	875568	United Colven Distributors Inc.	11503664	Merged Entity	100.0000	NULL
...	...	...	...	...	...	...	...

Find the ultimate parent of companies

```
--This is a recursive query that finds the ultimate parent of designated companies

create table #companyUltimateParent_tbl (companyid int, ultimateParentId int, level int)

insert into #companyUltimateParent_tbl (companyid, ultimateParentId, level)
select c.companyId, c.companyId as ultimateParentId, convert(tinyint, 0) as level
from ciqCompany c with (nolock)
-- companies you want to find the ultimate parent of
where c.companyId IN (392783,27827314)

-- Start going through CompanyRel_tbl to find the parents (max 10 levels)
declare @level tinyint
set @level = 1
while @level <= 10
begin
   update up
   set ultimateParentId = cr.companyId
  ,level = @level
  from #companyUltimateParent_tbl up (tablockx)
    inner join ciqCompanyRel cr (nolock)
            on up.ultimateParentId = cr.companyId2
            and cr.companyRelTypeId in (5,7,9,17,40)
   set @level = @level + 1
end

select *
from #companyUltimateParent_tbl
drop table #companyUltimateParent_tbl
```

View Results:

companyid	ultimateParentId	level
392783	334622	2
27827314	26365896	1

Revision History

The changes made to this document include the following:

Version	Date	Changes
1.0	01/10/2011	Initial version
1.1	08/11/2011	Revised sample query “Find the Ultimate Parent of Marketing Mine Inc. (Private Company)”
1.2	08/23/2011	Revised queries for Corporate Tree and Ultimate Parent
1.3	07/09/2012	Updated with new Branding

Index

Building a Corporate Tree, 15
Child company, 7, 8
ciqCompanyRel, 7
ciqCompanyRelType, 8
Collection and Coverage, 3
Company Relationship Type, 8
Company Relationships table, 7
companyId, 7
companyId2, 7
companyRelTypeName, 8
Data Structure, 3
Document Overview, 1
Linking, 5
  Linking from Transactions to Company Relationships, 6
  Linking to S&P Capital IQ Base Files, 5
Parent company, 7, 8
percentOwnership, 8
Query Solutions, 11
Sample Queries, 11
Schema, 5
Transactions package, 3, 6