

Transactions

Xpressfeed User Guide

Industry Leading Fundamental Data



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Document Overview

What You Will Find in This Manual

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

Who Should Read This Manual

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

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

Supporting Documentation

- *Xpressfeed Technical Guide: S&P Capital IQ Data Packages*, which provides the information you need to load and process Transactions.
- *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.
- *Xpressfeed Loader User Guide*, which outlines the features and capabilities of the Xpressfeed Loader.
- *Company Relationship User Guide*, which describes the Company Relationships package that links directly to the Transactions package.

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Executive Summary

The S&P Capital IQ Transactions package provides summary data for all company transactions which S&P Capital IQ collects, which includes:

Private placement	Sale of newly issued shares to a select group of investors including: exercise of warrants, private investment in public equity, placement of debt securities and venture capital
Merger/Acquisition	Acquisition of equity stakes by purchasing existing securities
Spin-off/Split-off	Forms of divestiture where the shares of the subsidiary/division are issued to the existing shareholders to list the subsidiary/division on the stock exchange
Fund Raising	A private fund raises investment towards a target at first close
Bankruptcy	Bankruptcy transactions for United States-based companies who have filed for Chapter 11 or Chapter 7
Buyback	Share repurchase of own shares in open market

Note that this package provides only summary information for each of these transaction types, including announcement and closing dates, status, transaction size, company relationships for the transaction, and advisors to the target company. For detailed data, S&P Capital IQ offers individual packages for some transaction types, including **M/A Transactions** and **Offering Transactions** (includes Public Offerings and Shelf Registrations)

The Transactions package includes company relationships for a given transaction. For the details of the relationships, including information on the specific companies involved, the **Company Relationships** package is required. For more information on this package, see the *Company Relationships User Guide*.

Collection and Coverage

The S&P Capital IQ Transactions package covers transactions for all major markets in North America, Europe, Asia Pacific and Latin America. Coverage includes both private and public companies, investment firms, educational institutions, foundations, trade associations and government institutions.

Historical coverage is summarized below by transaction type, region and year collection began:

Table 1. Historical Coverage by Region (coverage begins in the given year)

Transaction Type	U.S.	Europe	Asia	Africa	Middle East	Latin Am./ Caribbean	Australia	New Zealand
Private Placement	1998	2001	2004	2004	2004	2004	2004	2004
Merger/ Acquisition	1998	2001	2006	2001	2001	2006	2001	2001
Spin-Off	1998	2001	2006	2001	2001	2006	2001	2001
Fund Raising	2005	2005	2007	2009	2009	2010		
Bankruptcy	Oct. 2003							
Buyback	Oct. 2003	2005	Jan. 2009	Jan. 2009	Jan. 2009	Jan. 2009	2005	2005

Transactions Schema

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

The primary component of the schema is **Transactions**, for which there can be zero to many **Company Relationships** associated with the Transaction, and zero to many **Advisors** associated with the Transaction:

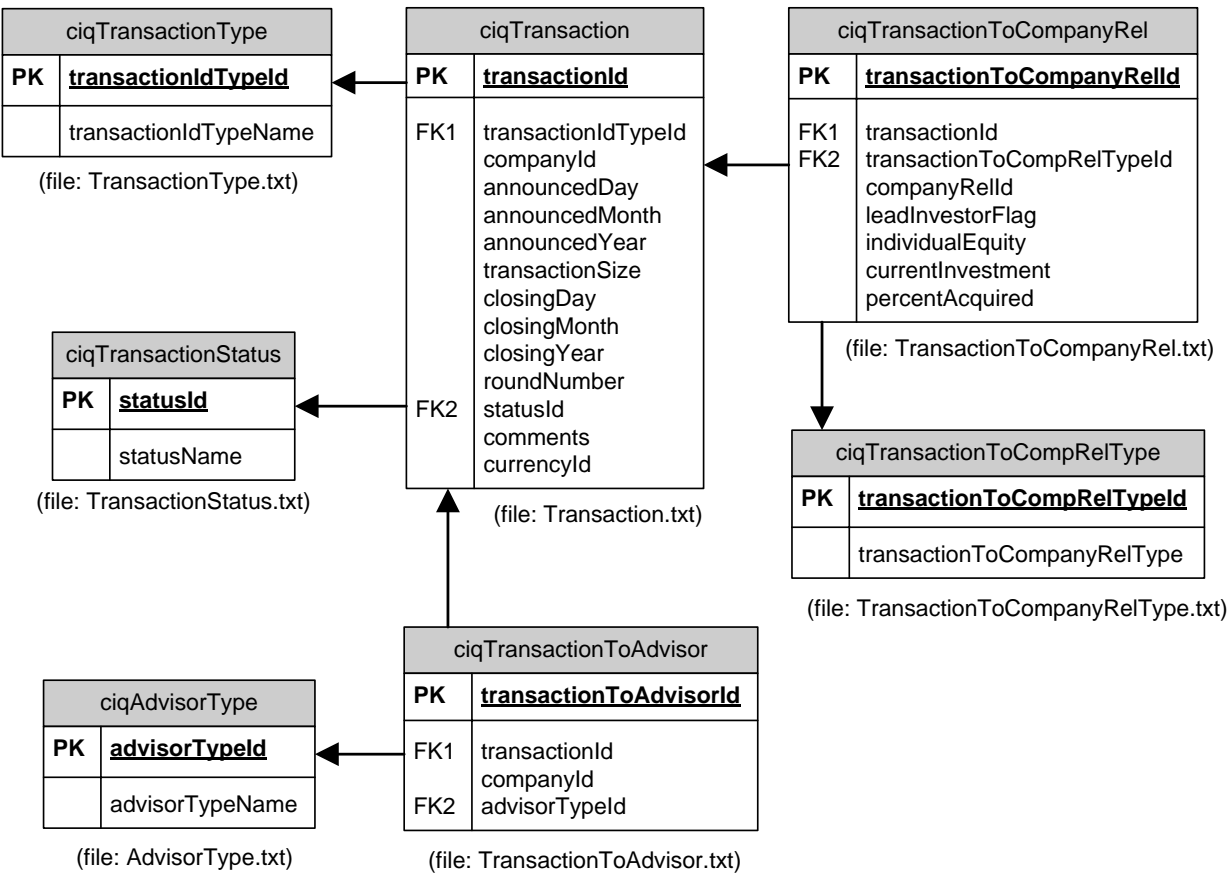


Figure 1. S&P Capital IQ Transactions Database Schema

More Information

For a detailed description of the tables and fields in the Transactions schema, refer to [Table and Field Descriptions](#).

Linking to S&P Capital IQ Base Files

The Base Files are the required foundation for all other S&P Capital IQ data packages. The Base Files provide a base set of companies, securities, exchange rates, symbols and data items from which to link across all other S&P Capital IQ data sets.

The **ciqTransactions** table and **ciqTransactionToAdvisor** tables both have direct links to the Base Files through *companyld*. The **ciqTransactions** table also links via *currencyld*:

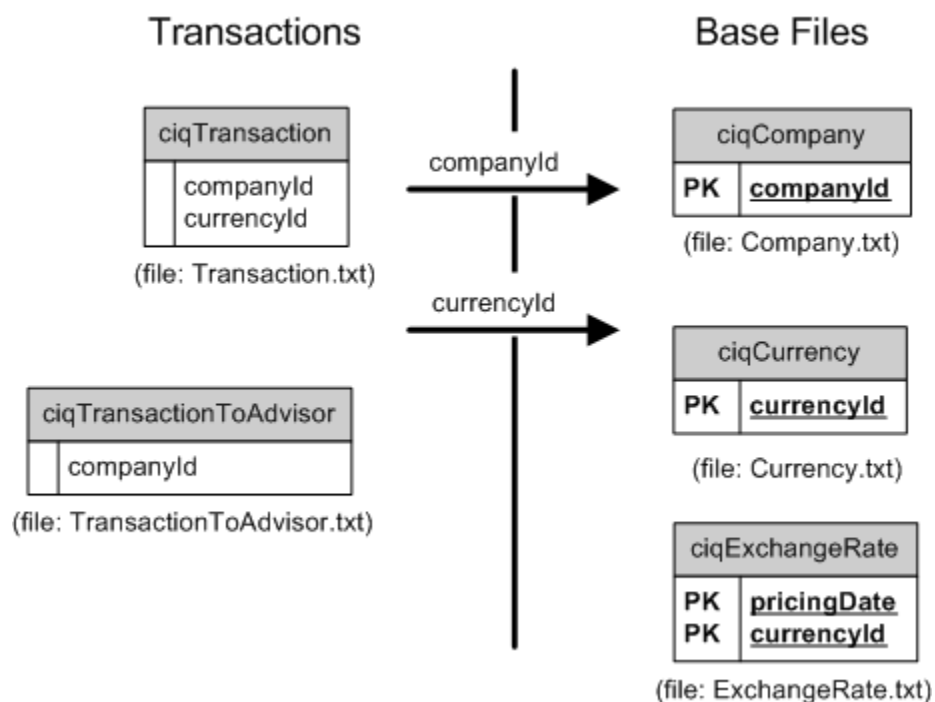


Figure 2. Links from Transactions to Base Files

In the **ciqTransaction** table the *companyld* identifies the target company, and the *currencyld* identifies the currency the *transactionSize* is given in.

In the **ciqTransactionToAdvisor** table the *companyld* identifies the advisor company.

Linking to Company Relationships

The **ciqTransactionToCompanyRel** table links to the Company Relationships package via the *companyRelId*, providing a way to look up company relationship details. These details include the *companyIds* of the companies related to the target company (represented by *companyId* in **ciqCompanyRel**). Both tables in the Company Relationships package are shown below.

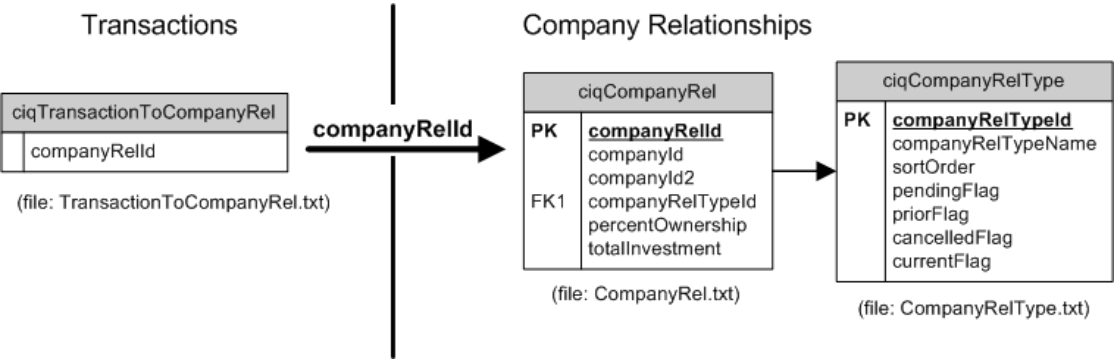


Figure 3. Linking from Transactions to Company Relationships

Note that for each Transaction there can be zero to many Company Relationships (thus zero to many entries in **ciqTransactionToCompanyRel**). A query using an outer join is suggested.

More Information

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

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Table Descriptions

Following is a detailed description of each table and field in the Transactions package.

Transaction Table

The **Transaction** table provides transactions according to the target company (represented by *companyId*), announced date, closing date and transaction type (M/A, Private Placement, Spin-off, etc.). The role of the target company in the transaction varies depending on the transaction type (for the different roles, see the [companyId field description below](#)).

ciqTransaction	
PK	<u>transactionId</u>
FK1	transactionIdTypeId companyId announcedDay announcedMonth announcedYear transactionSize closingDay closingMonth closingYear roundNumber
FK2	statusId comments currencyId

(file: Transaction.txt)

Table 2. ciqTransaction fields

Column Name	Data Type	Description														
transactionId	Int	Unique identifier for a transaction														
transactionId TypeId	Int	Unique identifier for the transaction type														
companyId	Int	The target company of the transaction. Depending on the type of transaction, the target company represents a different role in the transaction:														
		<table><tr><th>Transaction Type</th><th>Target Company Role</th></tr><tr><td>Private Placement</td><td>Company raising money through private placement</td></tr><tr><td>Merger/ Acquisition</td><td>Target company being acquired</td></tr><tr><td>Spin-Off</td><td>Company being spun off (child company)</td></tr><tr><td>Fund Raising</td><td>Private fund raising the money</td></tr><tr><td>Bankruptcy</td><td>Company filing for bankruptcy</td></tr><tr><td>Buyback</td><td>Company buying back stock</td></tr></table>	Transaction Type	Target Company Role	Private Placement	Company raising money through private placement	Merger/ Acquisition	Target company being acquired	Spin-Off	Company being spun off (child company)	Fund Raising	Private fund raising the money	Bankruptcy	Company filing for bankruptcy	Buyback	Company buying back stock
		Transaction Type	Target Company Role													
		Private Placement	Company raising money through private placement													
		Merger/ Acquisition	Target company being acquired													
		Spin-Off	Company being spun off (child company)													
		Fund Raising	Private fund raising the money													
		Bankruptcy	Company filing for bankruptcy													
Buyback	Company buying back stock															
announcedDay	Tinyint	Day of the transaction announcement date														
announcedMonth	Tinyint	Month of the transaction announcement date														
announcedYear	Smallint	Year of the transaction announcement date														

Column Name	Data Type	Description														
transactionSize	decimal(18,0)	Total size of transaction in millions of local currency (where <i>currencyId</i> defines the currency). The table below summarizes the definition of <i>transactionSize</i> based on the transaction.														
		<table><tr><th>Transaction Type</th><th><i>transactionSize</i> definition</th></tr><tr><td>Private placement</td><td>Gross proceeds of the private placement</td></tr><tr><td>M/A</td><td>Total transaction size of the Merger/Acquisition</td></tr><tr><td>Spin-off</td><td>Total distribution amount of the spin-off when completed</td></tr><tr><td>Fund Raising</td><td>Fund size as of final close</td></tr><tr><td>Bankruptcy</td><td>N/A</td></tr><tr><td>Buyback</td><td>Total repurchase amount of buyback</td></tr></table>	Transaction Type	<i>transactionSize</i> definition	Private placement	Gross proceeds of the private placement	M/A	Total transaction size of the Merger/Acquisition	Spin-off	Total distribution amount of the spin-off when completed	Fund Raising	Fund size as of final close	Bankruptcy	N/A	Buyback	Total repurchase amount of buyback
		Transaction Type	<i>transactionSize</i> definition													
		Private placement	Gross proceeds of the private placement													
		M/A	Total transaction size of the Merger/Acquisition													
		Spin-off	Total distribution amount of the spin-off when completed													
		Fund Raising	Fund size as of final close													
		Bankruptcy	N/A													
Buyback	Total repurchase amount of buyback															
closingDay	tinyint	Day of the transaction closing date. Null if the transaction is not yet closed.*														
closingMonth	tinyint	Month of the transaction closing date. Null if the transaction is not yet closed.*														
closingYear	smallint	Year of the transaction closing date. Null if the transaction is not yet closed.*														
roundNumber	varchar(5)	Round of financing for the target company in a private placement (only applies to this transaction type). Values include: 1, 2, 3, 4, etc.														
statusId	int	Unique identifier for the transaction status														
comments	varchar(5000)	Long textual description detailing the transaction. New paragraphs are indicated by a double space.														
currencyId	smallint	Unique identifier for the currency of the <i>transactionSize</i> . This links to ciqCurrency and ciqExchangeRate in the Base Files for determining the currency and exchange rate to U.S. dollars.														

* Note that Bankruptcy transactions do not have a closing date.

Transaction Type Table

Transaction Type is a reference table that provides the textual description of the transaction type (M/A, Private Placement, Spin-off, etc.).

ciqTransactionType	
PK	<u>transactionIdTypeId</u>
	transactionIdTypeName

(file: TransactionType.txt)

Table 3. ciqTransactionType fields

Column Name	Data Type	Description	
transactionIdTypeeld	int	Unique identifier for the transaction type	
transactionIdTypeName	varchar(50)	Textual description of the transaction type. Several transaction types in this table are not applicable to the Transaction package; the following are relevant transaction types:	
		1	Private Placement
		2	Merger/Acquisition
		7	Spin-Off/Split-Off
		10	Fund Raising
		12	Bankruptcy
		14	Buyback

Transaction Status

Transaction Status is a reference table that provides the textual description of the transaction status (Announced, Closed, Cancelled, etc.).

ciqTransactionStatus	
PK	<u>statusId</u>
	statusName

(file: TransactionStatus.txt)

Table 4. ciqTransactionStatus fields

Column Name	Data Type	Comments																									
statusId	int	Unique identifier of the transaction status																									
statusName	varchar(50)	<p>Textual description of the transaction status. The following is a chart showing the statuses relevant to specific type of transaction (note that this may not be a complete listing):</p> <table> <tr> <td>1</td><td>Announced</td><td rowspan="4">Private Placement, Merger/Acquisition, Spin-Off/Split-Off, Fund Raising, Buyback</td></tr> <tr> <td>2</td><td>Closed</td></tr> <tr> <td>3</td><td>Cancelled</td></tr> <tr> <td>4</td><td>Effective *</td></tr> <tr> <td>10</td><td>Expired</td><td rowspan="2">Buyback</td></tr> <tr> <td>11</td><td>Suspended</td></tr> <tr> <td>1</td><td>Announced</td><td rowspan="5">Bankruptcy</td></tr> <tr> <td>7</td><td>Emerged/Reorganized</td></tr> <tr> <td>12</td><td>Dismissed</td></tr> <tr> <td>14</td><td>Case Consolidated</td></tr> <tr> <td>15</td><td>Liquidated/Out Of Business</td></tr> </table>	1	Announced	Private Placement, Merger/Acquisition, Spin-Off/Split-Off, Fund Raising, Buyback	2	Closed	3	Cancelled	4	Effective *	10	Expired	Buyback	11	Suspended	1	Announced	Bankruptcy	7	Emerged/Reorganized	12	Dismissed	14	Case Consolidated	15	Liquidated/Out Of Business
1	Announced	Private Placement, Merger/Acquisition, Spin-Off/Split-Off, Fund Raising, Buyback																									
2	Closed																										
3	Cancelled																										
4	Effective *																										
10	Expired	Buyback																									
11	Suspended																										
1	Announced	Bankruptcy																									
7	Emerged/Reorganized																										
12	Dismissed																										
14	Case Consolidated																										
15	Liquidated/Out Of Business																										

* Effective status means that it was implied that the transaction was closed in the source document, though never stated explicitly. In this case the closing date is the date of the source document in which it was implied.

Transaction to Company Relationships Table

The **Transaction to Company Relationship** table provides all relationships associated with a transaction. An M/A transaction, for example, might have an Investor/Buyer and a Seller represented as company relationships in this table. For each transaction, there can be zero to many company relationships; each relationship is represented as a row in the **ciqTransactionToCompanyRel** table with an associated *companyRelId*. The *companyRelId* is referenced in the **ciqCompanyRel** table within the Company Relationships package, and describes the specifics of the relationship.

ciqTransactionToCompanyRel	
PK	<u>transactionToCompanyRelId</u>
FK1	transactionId
FK2	transactionToCompRelTypeId
	companyRelId
	leadInvestorFlag
	individualEquity
	currentInvestment
	percentAcquired

(file: TransactionToCompanyRel.txt)

Depending on the transaction type, the relationships referenced in the **ciqTransactionToCompRel** will vary. The following table shows the typical relationship types represented for a transaction type:

Table 5. Relationship types represented in ciqTransactionToCompRel

Transaction Type	Relationship Types represented in ciqTransactionToCompRel
Private Placement	Investor/Buyer of the private placement Lender/Creditor of the private placement (if the private placement is debt)
M/A	Seller of the target acquisition Investor/Buyer of the target acquisition
Fund Raising	Investor/Buyer in the fund
Spin-off	Seller (the parent company spinning off)
Bankruptcy	Lender/Creditor that has a claim against the company
Buyback	Usually none, though sometimes Seller in cases where shares are bought back from a selling company

Field Descriptions for **ciqTransactionToCompRel**:Table 6. **ciqTransactionToCompRel** fields

Column Name	Data Type	Description
transactionToComp anyRelId	int	Unique identifier for each company relationship related to the transaction
transactionId	int	Unique identifier for transaction. Note that each transaction may have zero to many company relationships.
transactionToComp RelTypeId	smallint	Unique identifier of the company relationship type. The relationship types represented in ciqTransactionToCompRel depend on the transaction; see the table above for more details .
companyRelId	int	Unique identifier for the company relationship. Links to the ciqCompanyRel table in the Company Relationships package, which explains the details of the relationship, including the <i>companyIds</i> of the related companies.
leadInvestorFlag	int	Identifies the lead investor for transactions where more than one Buyer/Investor is involved (typically Private Placement or M/A transactions). Where <i>transactionToCompRelTypeId</i> = 1 (Buyer/Investor), this flag will be set to 1 if a lead investor was indicated in the transaction. (Not all transactions with multiple investors indicate a lead investor). Otherwise this flag is set to 0 for all other Buyer/Investors.
individualEquity	decimal (18,2)	This field is not applicable to the transactions package.
currentInvestment	decimal (18,2)	This applies only to Investor/Buyer relationship types for Private Placement, M/A, and Fund Raising transactions. It gives the amount, in millions of local currency, the particular company invested in the transaction. This figure is only given if it was made available at collection, and is NULL otherwise. The <i>currencyId</i> in the ciqTransaction table indicates the currency of <i>currentInvestment</i> .

Column Name	Data Type	Description																						
percentAcquired	decimal (18,2)	<p>This applies to all relationship types for Private Placement, M/A, Fund Raising, Bankruptcy, and Buyback transaction types. This figure is only given if it was made available at collection, and is NULL otherwise.</p> <p>The table below summarizes what is captured in <i>percentAcquired</i> based on the transaction type and relationship type:</p> <table> <tr> <th>Transaction Type</th><th>Relationship type</th><th><i>percentAcquired</i> definition</th></tr> <tr> <td rowspan="2">Private placement</td><td>Investor/ Buyer</td><td>Percent of stake in target company</td></tr> <tr> <td>Lender/ Creditor</td><td>Actual amount, in millions of local currency, that was issued from the lender</td></tr> <tr> <td rowspan="2">M/A</td><td>Investor/ Buyer</td><td>Percent of stake acquired in the target company</td></tr> <tr> <td>Seller</td><td>Percent of stake in the target company sold by the seller (if available)</td></tr> <tr> <td>Fund Raising</td><td>Investor/ Buyer</td><td>Percent the investor contributed to the fund size at first close</td></tr> <tr> <td>Bankruptcy</td><td>Lender/ Creditor</td><td>Actual amount, in millions of local currency, that is owed to the lender</td></tr> <tr> <td>Buyback</td><td>Seller</td><td>Percent of stake bought back from seller</td></tr> </table>	Transaction Type	Relationship type	<i>percentAcquired</i> definition	Private placement	Investor/ Buyer	Percent of stake in target company	Lender/ Creditor	Actual amount, in millions of local currency, that was issued from the lender	M/A	Investor/ Buyer	Percent of stake acquired in the target company	Seller	Percent of stake in the target company sold by the seller (if available)	Fund Raising	Investor/ Buyer	Percent the investor contributed to the fund size at first close	Bankruptcy	Lender/ Creditor	Actual amount, in millions of local currency, that is owed to the lender	Buyback	Seller	Percent of stake bought back from seller
Transaction Type	Relationship type	<i>percentAcquired</i> definition																						
Private placement	Investor/ Buyer	Percent of stake in target company																						
	Lender/ Creditor	Actual amount, in millions of local currency, that was issued from the lender																						
M/A	Investor/ Buyer	Percent of stake acquired in the target company																						
	Seller	Percent of stake in the target company sold by the seller (if available)																						
Fund Raising	Investor/ Buyer	Percent the investor contributed to the fund size at first close																						
Bankruptcy	Lender/ Creditor	Actual amount, in millions of local currency, that is owed to the lender																						
Buyback	Seller	Percent of stake bought back from seller																						

Transaction to Company Relationship Type Table

Transaction to Company Relationship Type is a reference table that provides the type of relationship the related company has to the target company. The four types are: Investor/Buyer, Seller, Lender/Creditor, and Target/Issuer.

ciqTransactionToCompRelType	
PK	<u>transactionToCompRelTypeId</u>
	transactionToCompanyRelType

(file: TransactionToCompanyRelType.txt)

Table 7. ciqTransactionToCompRelType fields

Column Name	Data Type	Description								
transactionToCompRelTypeId	int	Unique identifier for the type of the company relationship associated with the transaction								
transactionToCompanyRelType	varchar(50)	<div>Textual description of the type of relationship the related company has to the target company. Values are:</div> <table><tr><td>1</td><td>Investor / Buyer</td></tr><tr><td>2</td><td>Seller</td></tr><tr><td>3</td><td>Lender/Creditor</td></tr><tr><td>4</td><td>Target/Issuer *</td></tr></table>	1	Investor / Buyer	2	Seller	3	Lender/Creditor	4	Target/Issuer *
1	Investor / Buyer									
2	Seller									
3	Lender/Creditor									
4	Target/Issuer *									

* This code is not applicable to Xpressfeed.

Transaction to Advisor Table

The **Transaction to Advisor** table provides the target companies' advisors that were involved in the transaction, by *companyId*. Each transaction can have zero to many advisors (depending on the transaction and its type). Note that this table does not include the advisors of related companies (identified in the **ciqCompanyRel** table), but only the advisors of the target company.

ciqTransactionToAdvisor	
PK	<u>transactionToAdvisorId</u>
FK1	transactionId
	companyId
FK2	advisorTypeId

(file: TransactionToAdvisor.txt)

Table 8. ciqTransactionToAdvisor fields

Column Name	Data Type	Comments
transactionToAdvisorId	int	Unique identifier for the advisor associated with the transaction. Each transaction can have zero to many advisors.
transactionId	int	Unique identifier for the transaction.
companyId	int	Unique identifier for the advisor company. This links to the ciqCompany table in the Base files.
advisorTypeId	int	Unique identifier for the advisor type

Advisor Type Table

Advisor Type is a reference table that provides the textual description of the type of advisor: Financial Advisor, Legal Advisor, Accountant, etc.

ciqAdvisorType	
PK	<u>advisorTypeid</u>
	advisorTypeName

(file: AdvisorType.txt)

Table 9. ciqAdvisorType fields

Column Name	Data Type	Description
advisorTypeid	int	Unique identifier for the advisor type
advisorTypeName	varchar(50)	Textual description of the advisor type. Examples include the following:
		Financial Advisor
		Legal Advisor
		Accountant
		Fairness Opinion Provider
		Placement Agent

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Appendix A: Frequently Asked Questions

1. **Depending on the transaction type, what relationship types are represented in `ciqTransactionToCompanyRel` table?**

In the chapter Table Descriptions, refer to [Table 5](#).

2. **I've searched for M/A activity for a given company with zero results.**

Make sure you are looking for the company on the **`ciqCompanyRel`** table, and not the company on the **`ciqTransaction`** table which specifies the *target* of the transaction.

3. **For a specific transaction, I'm linking to `ciqTransactionToCompanyRel` (or `ciqTransactionToAdvisor`) and my query is coming up with zero or incomplete results. Why is this?**

Your query may be pulling up zero or limited results because there are no associated company relationships or advisors for a given transaction. For each transaction, there are zero to many company relationships and zero to many advisors. Always use a query with an outer join with these tables.

4. **Are all advisors for a given transaction included in the `ciqTransactionToAdvisor` table?**

No. The advisors for the target company are included, but not the advisors for the related companies (the related companies, such as a buyer or seller in an M/A transaction, are identified in the **`ciqTransactionToCompanyRel`** table).

5. Why are the closing dates NULL for Bankruptcy transactions?

Bankruptcy transactions do not have a closing status per se and so closing dates are not populated.

6. What does the Effective status mean?

Effective status means that it was implied that the transaction was closed in the source document, though never stated explicitly. In this case the closing date is the date of the source document in which it was implied.

Appendix B: Sample Query Solutions

This section provides sample queries and solutions for S&P Capital IQ Transactions. All sample queries use SQL Server script. Sample queries are provided in order to demonstrate table relationships and business rules. Please feel free to optimize the queries for best performance based on your use case.

All Merger / Acquisition activity IBM has been involved with as Buyer or Seller in 2010 (showing company relationships)

```
select
tr.transactionId
,tt.transactionIdTypeName
-- convert date fields to datetime
,convert (datetime, (convert(varchar,tr.announcedDay) + '-' + convert(varchar,tr.announcedMonth)
+ '-' + convert(varchar,tr.announcedYear)), 105) announceDate
,convert (datetime, (convert(varchar,tr.closingDay) + '-' + convert(varchar,tr.closingMonth) + '-'
+ convert(varchar,tr.closingYear)), 105) closingDate
,c1.companyName 'Target Company'
,c2.companyName 'Related Company'
,crt.transactionToCompanyRelType 'Role'
,crelt.companyRelTypeName 'Relationship of Target Company'
,crel.percentOwnership

from ciqTransaction tr
join ciqCompany c1 on c1.companyId = tr.companyId
join ciqTransactionType tt on tt.transactionIdTypeId = tr.transactionIdTypeId

--joining to company relationships; use of outer join as company relationships may not exist.
left outer join ciqTransactionToCompanyRel cr on cr.transactionId = tr.transactionId
left outer join ciqTransactionToCompRelType crt on crt.transactionToCompRelTypeId =
cr.transactionToCompRelTypeId
left outer join ciqCompanyRel crel on crel.companyRelId = cr.companyRelId
left outer join ciqCompanyRelType crelt on crelt.companyRelTypeId = crel.companyRelTypeId
left outer join ciqCompany c2 on c2.companyId = crel.companyId

where
-- IBMs companyId. Note for M/A we are looking for IBM in the ciqCompanyRel table, not the
ciqTransaction table.
crel.companyId = 112350
-- M/A transactions
and tr.transactionIdTypeId = 2
-- announced in 2010
and tr.announcedYear = 2010
order by announceDate desc
```

View Results:

transactionId	transactionId Type	Announce Date	Closing Date	Target Company	Related Company	Role	Relationship of Target Company	percent Ownership
113539958	Merger/ Acquisition	2010-09-19	NULL	Netezza Corporation	International Business Machines Corp.	Investor / Buyer	Pending Acquisition/ Investment	NULL
113374465	Merger/ Acquisition	2010-09-15	NULL	OpenPages, Inc.	International Business Machines Corp.	Investor / Buyer	Pending Acquisition/ Investment	NULL
111726615	Merger/ Acquisition	2010-08-12	NULL	Unica Corporation	International Business Machines Corp.	Investor / Buyer	Pending Acquisition/ Investment	NULL
111604158	Merger/ Acquisition	2010-08-10	2010-08-10	Datacap, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
110012264	Merger/ Acquisition	2010-07-29	2010-08-30	Storwize, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
108915870	Merger/ Acquisition	2010-07-01	2010-07-20	BigFix, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
108961573	Merger/ Acquisition	2010-06-24	2010-08-12	Altis Semiconductor	International Business Machines Corp.	Seller	Prior Subsidiary/ Operating Unit	NULL
107916261	Merger/ Acquisition	2010-06-15	2010-08-02	Coremetrics, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
106488867	Merger/ Acquisition	2010-05-24	2010-08-27	Sterling Commerce, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
104718955	Merger/ Acquisition	2010-05-03	2010-05-03	Cast Iron Systems, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	NULL
90041217	Merger/ Acquisition	2010-02-03	2010-03-01	Initiate Systems, Inc.	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000
99572629	Merger/ Acquisition	2010-02-02	2010-02-02	Glacier Consulting (Pty) Ltd.	International Business Machines Corp.	Seller	Prior Subsidiary/ Operating Unit	NULL
84661866	Merger/ Acquisition	2010-01-20	2010-03-02	National Interest Security Company, LLC	International Business Machines Corp.	Investor / Buyer	Current Subsidiary/ Operating Unit	100.0000

All Bankruptcies announced in 2009 or later that have since emerged or reorganized (showing company relationships)

```
select tr.transactionId
,tt.transactionIdTypeName
-- convert date fields to datetime
,convert(datetime, (convert(varchar,tr.announcedDay) + '-' + convert(varchar,tr.announcedMonth)
+ '-' + convert(varchar,tr.announcedYear)), 105) announceDate
,ts.statusName
,c1.companyName 'Target Company'
,c2.companyName 'Related Company'
,crt.transactionToCompanyRelType 'Role'
,crelt.companyRelTypeName 'Relationship to Target Company'

from ciqTransaction tr
join ciqCompany c1 on c1.companyId = tr.companyId
join ciqTransactionType tt on tt.transactionIdTypeId = tr.transactionIdTypeId
--join to get status
join ciqTransactionStatus ts on ts.statusId = tr.statusId

--joining to company relationships; use an outer join as company relationships may not exist.
left outer join ciqTransactionToCompanyRel cr on cr.transactionId = tr.transactionId
left outer join ciqTransactionToCompRelType crt on crt.transactionToCompRelTypeId =
cr.transactionToCompRelTypeId
left outer join ciqCompanyRel crel on crel.companyRelId = cr.companyRelId
left outer join ciqCompanyRelType crelt on crelt.companyRelTypeId = crel.companyRelTypeId
left outer join ciqCompany c2 on c2.companyId = crel.companyId

where

-- Bankruptcy transactions
tr.transactionIdTypeId = 12
-- announced in 2009 or later
and tr.announcedYear >= 2009
-- have since emerged from bankruptcy or reorganized
and tr.statusId = 7

order by announceDate desc, tr.transactionId
```

View Results:

transactionId	transactionId TypeName	Announce Date	statusName	Target Company	Related Company	Role	Relationship to Target Company
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	The Bank of New York Mellon Corporation	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Waste Management, Inc.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Pension Benefit Guaranty Corporation	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	The Kroger Co.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Temple-Inland Inc.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	GP Harmon Recycling LLC	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Meijer Distribution, Inc.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Rumpke Container Services Inc.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	Ekman Recycling, Inc.	Lender/ Creditor	Prior Lender
107490912	Bankruptcy	2010-06-09	Emerged/ Reorganized	The Newark Group, Inc.	International Paper Recycling	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	VWR International LLC	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	Specialty Laboratories, Inc.	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	QIAGEN, Inc.	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	Roche Diagnostics Corporation	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	Genzyme Genetics	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	DiaSorin, Inc.	Lender/ Creditor	Prior Lender
106624476	Bankruptcy	2010-05-19	Emerged/ Reorganized	Westcliff Medical Laboratories, Inc.	Grifols USA, LLC	Lender/ Creditor	Prior Lender
...

U.S. Private Placement transactions that have closed in 2010 with Financial Institutions as investors (showing company relationships)

```
select tr.transactionId
,tt.transactionIdTypeName
-- convert date fields to datetime
,convert(datetime, (convert(varchar,tr.announcedDay) + '-' + convert(varchar,tr.announcedMonth)
+ '-' + convert(varchar,tr.announcedYear)), 105) announceDate
,convert(datetime, (convert(varchar,tr.closingDay) + '-' + convert(varchar,tr.closingMonth) + '-'
+ convert(varchar,tr.closingYear)), 105) closingDate
,ts.statusName
,c1.companyName 'Target Company'
,c2.companyName 'Related Company'
,crt.transactionToCompanyRelType 'Role'
,crelt.companyRelTypeName 'Relationship of Target Company'

from ciqTransaction tr
join ciqCompany c1 on c1.companyId = tr.companyId
join ciqTransactionType tt on tt.transactionIdTypeId = tr.transactionIdTypeId
join ciqTransactionStatus ts on ts.statusId = tr.statusId

--joining to company relationships; use an outer join as company relationships may not exist.
left outer join ciqTransactionToCompanyRel cr on cr.transactionId = tr.transactionId
left outer join ciqTransactionToCompRelType crt on crt.transactionToCompRelTypeId =
cr.transactionToCompRelTypeId
left outer join ciqCompanyRel crel on crel.companyRelId = cr.companyRelId
left outer join ciqCompanyRelType crelt on crelt.companyRelTypeId = crel.companyRelTypeId
left outer join ciqCompany c2 on c2.companyId = crel.companyId

where

-- Private Placement transactions
tr.transactionIdTypeId = 1
-- U.S. Dollars
and tr.currencyId= 160
-- closing year 2010
and tr.closingYear = 2010
-- status closed
and tr.statusId = 2
-- all investment company types. Note we are looking at companies linked to ciqCompanyRel table
for related companies.
and c2.companyTypeId in(1,2,6,7,10)

order by announceDate desc, tr.transactionId
```

View Results:

transactionId	transactionId Type Name	announce Date	closingDate	status Name	Target Company	Related Company	Role	Relationship of Target Company
113636048	Private Placement	2010-09-22	2010-09-22	Closed	MedExpress Urgent Care, PLLC	Sequoia Capital	Investor / Buyer	Current Investment
113636048	Private Placement	2010-09-22	2010-09-22	Closed	MedExpress Urgent Care, PLLC	General Atlantic LLC	Investor / Buyer	Current Investment
113630543	Private Placement	2010-09-21	2010-09-21	Closed	Encore Capital Group, Inc.	Prudential Capital Group, L.P.	Lender/ Creditor	Current Lender
113638082	Private Placement	2010-09-21	2010-09-21	Closed	Onset Technology, Inc.	Jerusalem Global Ventures	Investor / Buyer	Current Investment
113638082	Private Placement	2010-09-21	2010-09-21	Closed	Onset Technology, Inc.	Cedar Fund	Investor / Buyer	Current Investment
113639168	Private Placement	2010-09-21	2010-09-21	Closed	Sanare, LLC	Bertram Capital Management LLC	Investor / Buyer	Current Investment
113641491	Private Placement	2010-09-21	2010-09-21	Closed	Aryaka Networks, Inc.	Mohr Davidow Ventures	Investor / Buyer	Current Investment
113641491	Private Placement	2010-09-21	2010-09-21	Closed	Aryaka Networks, Inc.	Nexus Venture Partners	Investor / Buyer	Current Investment
113641491	Private Placement	2010-09-21	2010-09-21	Closed	Aryaka Networks, Inc.	Trinity Ventures	Investor / Buyer	Current Investment
113641491	Private Placement	2010-09-21	2010-09-21	Closed	Aryaka Networks, Inc.	Stanford University, Endowment Arm	Investor / Buyer	Current Investment
113642912	Private Placement	2010-09-21	2010-09-21	Closed	Rocket Fuel Inc.	Labrador Ventures	Investor / Buyer	Current Investment
113642912	Private Placement	2010-09-21	2010-09-21	Closed	Rocket Fuel Inc.	Nokia Growth Partners	Investor / Buyer	Current Investment
113642912	Private Placement	2010-09-21	2010-09-21	Closed	Rocket Fuel Inc.	Mohr Davidow Ventures	Investor / Buyer	Current Investment
113642912	Private Placement	2010-09-21	2010-09-21	Closed	Rocket Fuel Inc.	Northgate Capital Group, L.L.C.	Investor / Buyer	Current Investment
113648244	Private Placement	2010-09-21	2010-09-21	Closed	Arterial Remodeling Technologies SA	Matignon Investissement & Gestion	Investor / Buyer	Current Investment
113648244	Private Placement	2010-09-21	2010-09-21	Closed	Arterial Remodeling Technologies SA	CDC Entreprises	Investor / Buyer	Current Investment
113648244	Private Placement	2010-09-21	2010-09-21	Closed	Arterial Remodeling Technologies SA	Amundi Private Equity Funds	Investor / Buyer	Current Investment
113648244	Private Placement	2010-09-21	2010-09-21	Closed	Arterial Remodeling Technologies SA	Crédit Agricole Private Equity	Investor / Buyer	Current Investment
...

All transaction history where Casey's General Stores Inc. (CASY) is the target, showing their advisors

```
select
tr.transactionId
,tt.transactionIdTypeName
,c1.companyName 'Target Company'
-- convert date fields to datetime
,convert(datetime, (convert(varchar,tr.announcedDay) + '-' + convert(varchar,tr.announcedMonth)
+ '-' + convert(varchar,tr.announcedYear)), 105) announceDate
,convert(datetime, (convert(varchar,tr.closingDay) + '-' + convert(varchar,tr.closingMonth) + '-'
+ convert(varchar,tr.closingYear)), 105) closingDate
,st.statusName
,c2.companyName 'Advisor Company'
,av.advisorTypeName

from ciqTransaction tr
join ciqCompany c1 on c1.companyId = tr.companyId
join ciqTransactionType tt on tt.transactionIdTypeId = tr.transactionIdTypeId
join ciqTransactionStatus st on st.statusId = tr.statusId

--joining to advisors. Note use of outer join as advisors may not exist for each transaction.
left outer join ciqTransactionToAdvisor ta on ta.transactionId = tr.transactionId
left outer join ciqAdvisorType av on av.advisorTypeId = ta.advisorTypeId
left outer join ciqCompany c2 on c2.companyId = ta.companyId

where

--search for Casey's General Stores Inc. by ticker
c1.tickerSymbol like 'CASY'

order by announceDate desc
```

View Results:

transactionId	transactionId TypeName	Target Company	Announce Date	closingDate	statusName	Advisor Company	advisorTypeName
113120410	Merger/ Acquisition	Casey's General Stores Inc.	2010-09-02	NULL	Announced	Cravath, Swaine & Moore LLP	Legal Advisor
113120410	Merger/ Acquisition	Casey's General Stores Inc.	2010-09-02	NULL	Announced	Ahlers & Cooney, P.C.	Legal Advisor
113120410	Merger/ Acquisition	Casey's General Stores Inc.	2010-09-02	NULL	Announced	Goldman, Sachs & Co.	Financial Advisor
111626523	Private Placement	Casey's General Stores Inc.	2010-08-09	2010-08-10	Closed	Goldman, Sachs & Co.	Financial Advisor
111626523	Private Placement	Casey's General Stores Inc.	2010-08-09	2010-08-10	Closed	Cravath, Swaine & Moore LLP	Legal Advisor
111626523	Private Placement	Casey's General Stores Inc.	2010-08-09	2010-08-10	Closed	Ahlers & Cooney, P.C.	Legal Advisor
11006645	Buyback	Casey's General Stores Inc.	2010-07-28	2010-08-25	Expired	Goldman, Sachs & Co.	Financial Advisor
11006645	Buyback	Casey's General Stores Inc.	2010-07-28	2010-08-25	Expired	Cravath, Swaine & Moore LLP	Legal Advisor
11006645	Buyback	Casey's General Stores Inc.	2010-07-28	2010-08-25	Expired	Ahlers & Cooney, P.C.	Legal Advisor
100608433	Merger/ Acquisition	Casey's General Stores Inc.	2010-03-09	NULL	Announced	Goldman, Sachs & Co.	Financial Advisor
100608433	Merger/ Acquisition	Casey's General Stores Inc.	2010-03-09	NULL	Announced	Cravath, Swaine & Moore LLP	Legal Advisor
100608433	Merger/ Acquisition	Casey's General Stores Inc.	2010-03-09	NULL	Announced	Ahlers & Cooney, P.C.	Legal Advisor
29731333	Private Placement	Casey's General Stores Inc.	2006-09-29	2007-03-30	Closed	NULL	NULL

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Revision History

Revision History

The changes to this document include the following:

Table 1. Revision history

Version	Date	Changes
v1.0	01/2011	Initial version
v1.1	08/10/2012	Updated to reflect new branding
v1.2	06/10/2013	Updated transactionToCompanyRelType footnote
v1.3	06/29/2017	Removed “seed” from roundNumber field in ciqTransactions table.

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