

Classes

Acquisition

Acquisition \sqsubseteq Transaction

Address

Address \sqsubseteq Thing

Address $\sqsubseteq \exists \text{ inverseofhasAddress } \text{Thing}$

Company

Company \sqsubseteq LegalPerson

Dealer

Dealer \equiv Trader

Dealer \sqsubseteq StockBroker

FinancialInstrument

Investor

Investor \sqsubseteq Thing

Investor \sqsubseteq Person

LegalPerson

LegalPerson \sqsubseteq Person

Offer

Offer \sqsubseteq Transaction

Person

Person \sqsubseteq Thing

Person $\sqsubseteq \exists \text{ hasAddress } \text{Thing}$

PhysicalPerson

PhysicalPerson \sqsubseteq Person

PhysicalPerson $\sqsubseteq \neg \text{LegalPerson}$

Stock

Stock \sqsubseteq FinancialInstrument

Stock $\sqsubseteq \exists \text{ isListedIn } \text{Thing}$

Stock $\sqsubseteq \exists \text{ belongsToCompany } \text{Thing}$

StockBroker

StockBroker $\sqsubseteq \exists$ tradesOnBehalfOf Thing

StockBroker \sqsubseteq StockExchangeMember

StockExchangeList

StockExchangeMember

StockExchangeMember \sqsubseteq Thing

StockExchangeMember \sqsubseteq Person

StockTrader

StockTrader \equiv Trader

StockTrader \sqsubseteq StockBroker

Thing

Trader

Trader \equiv StockTrader

Trader \equiv Dealer

Trader \sqsubseteq StockBroker

Transaction

Transaction $\sqsubseteq \exists$ involvesInstrument Thing

Transaction \sqsubseteq Thing

Transaction $\sqsubseteq \exists$ isExecutedFor Thing

Transaction $\sqsubseteq \exists$ isExecutedBy Thing

Object properties

belongsToCompany

belongsToCompany \equiv hasStock⁻

\exists belongsToCompany Thing \sqsubseteq Stock

$\top \sqsubseteq \forall$ belongsToCompany Company

hasAddress

hasAddress \equiv inverseofhasAddress⁻

\exists hasAddress Thing \sqsubseteq Person

$\top \sqsubseteq \forall$ hasAddress Address

hasStock

$\text{belongsToCompany} \equiv \text{hasStock}^-$
 $\exists \text{ hasStock Thing} \sqsubseteq \text{Company}$
 $\top \sqsubseteq \forall \text{ hasStock Stock}$

inverseofhasAddress

$\text{hasAddress} \equiv \text{inverseofhasAddress}^-$
 $\exists \text{ inverseofhasAddress Thing} \sqsubseteq \text{Address}$
 $\top \sqsubseteq \forall \text{ inverseofhasAddress Person}$

involvesInstrument

$\text{involvesInstrument} \equiv \text{isTradedIn}^-$
 $\exists \text{ involvesInstrument Thing} \sqsubseteq \text{Transaction}$
 $\top \sqsubseteq \forall \text{ involvesInstrument FinancialInstrument}$

isExecutedBy

$\exists \text{ isExecutedBy Thing} \sqsubseteq \text{Transaction}$
 $\top \sqsubseteq \forall \text{ isExecutedBy StockExchangeMember}$

isExecutedFor

$\exists \text{ isExecutedFor Thing} \sqsubseteq \text{Transaction}$
 $\top \sqsubseteq \forall \text{ isExecutedFor Investor}$

isListedIn

$\text{isListedIn} \equiv \text{listsStock}^-$
 $\exists \text{ isListedIn Thing} \sqsubseteq \text{Stock}$
 $\top \sqsubseteq \forall \text{ isListedIn StockExchangeList}$

isTradedIn

$\text{involvesInstrument} \equiv \text{isTradedIn}^-$
 $\top \sqsubseteq \forall \text{ isTradedIn Transaction}$

listsStock

$\text{isListedIn} \equiv \text{listsStock}^-$
 $\top \sqsubseteq \forall \text{ listsStock Stock}$

tradesOnBehalfOf

$\text{tradesOnBehalfOf} \equiv \text{usesBroker}^-$

usesBroker

$\text{tradesOnBehalfOf} \equiv \text{usesBroker}^-$

Data properties

Individuals

Datatypes