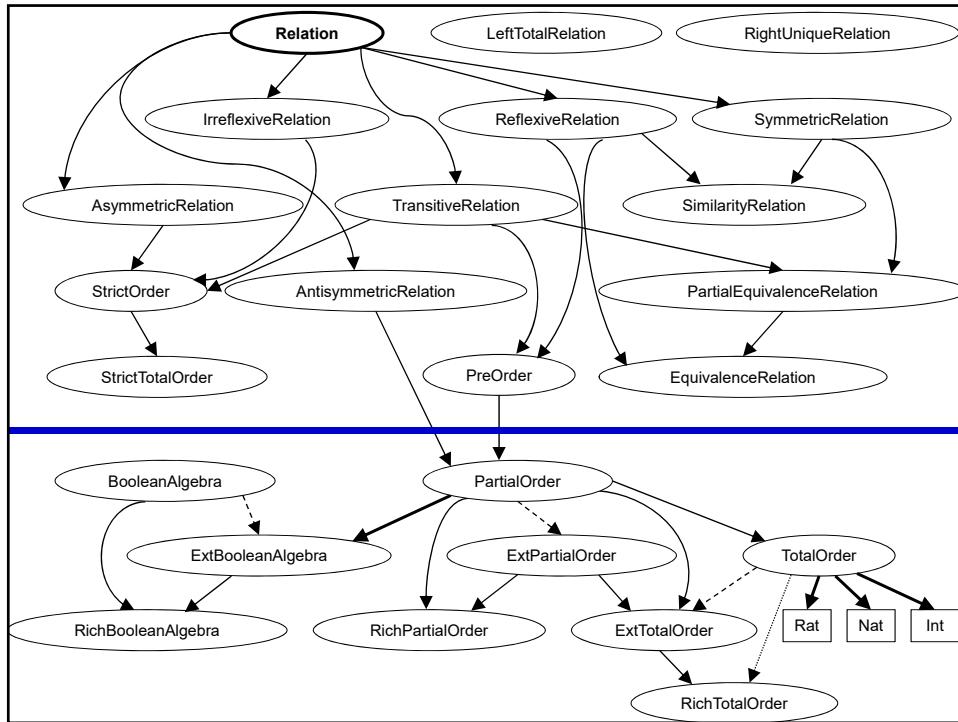
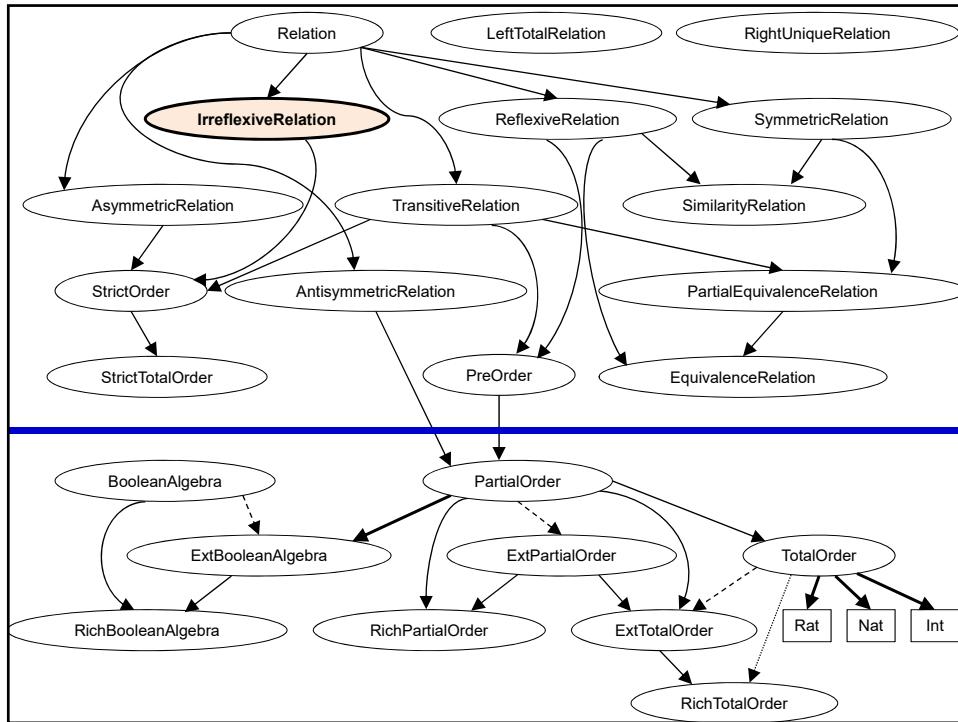


Permutations of Relation Properties

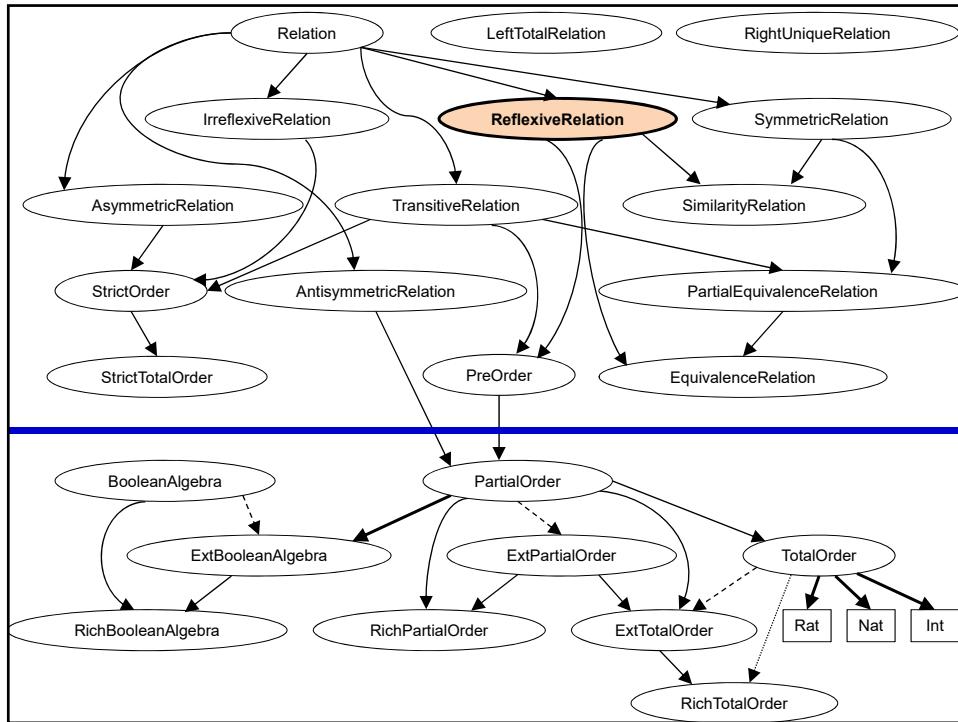
Permutations of Relation Properties, with Unique Identifiers					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



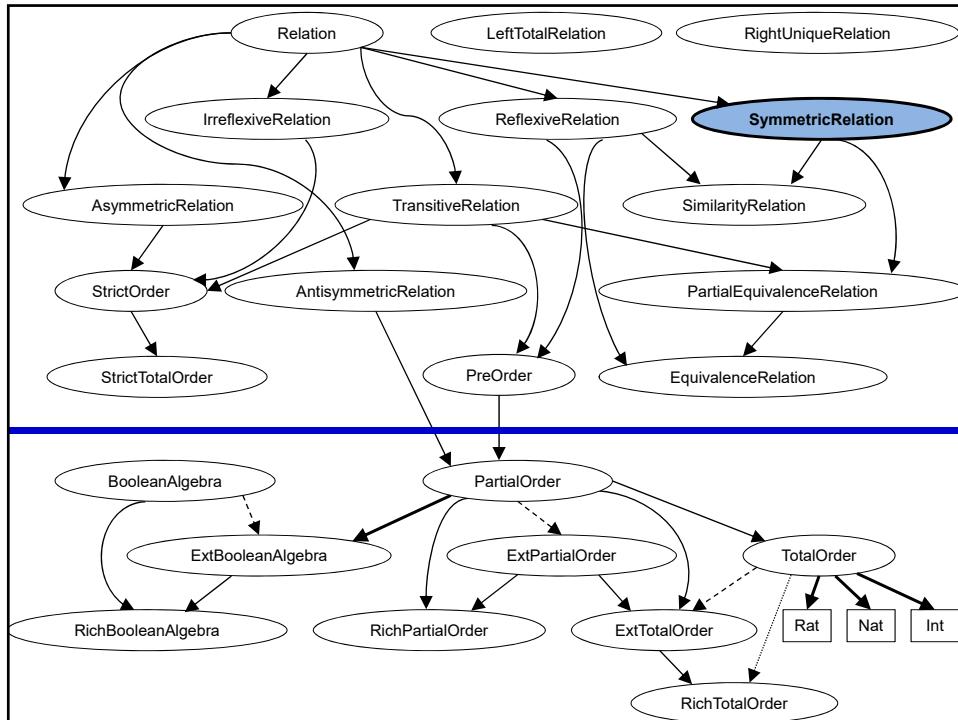
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - Relation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



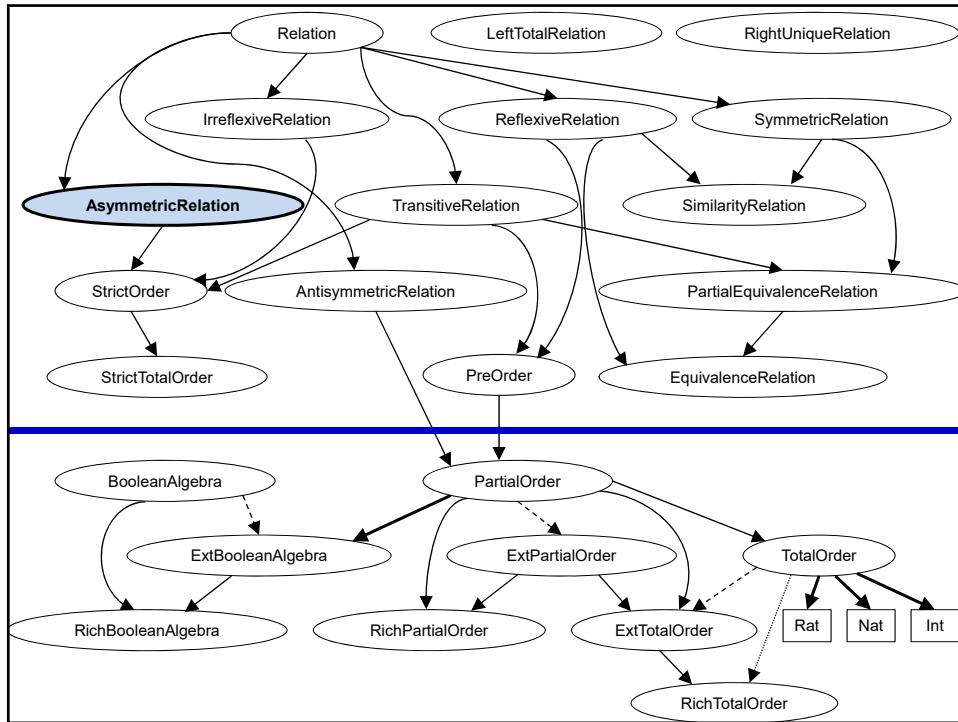
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - IrreflexiveRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



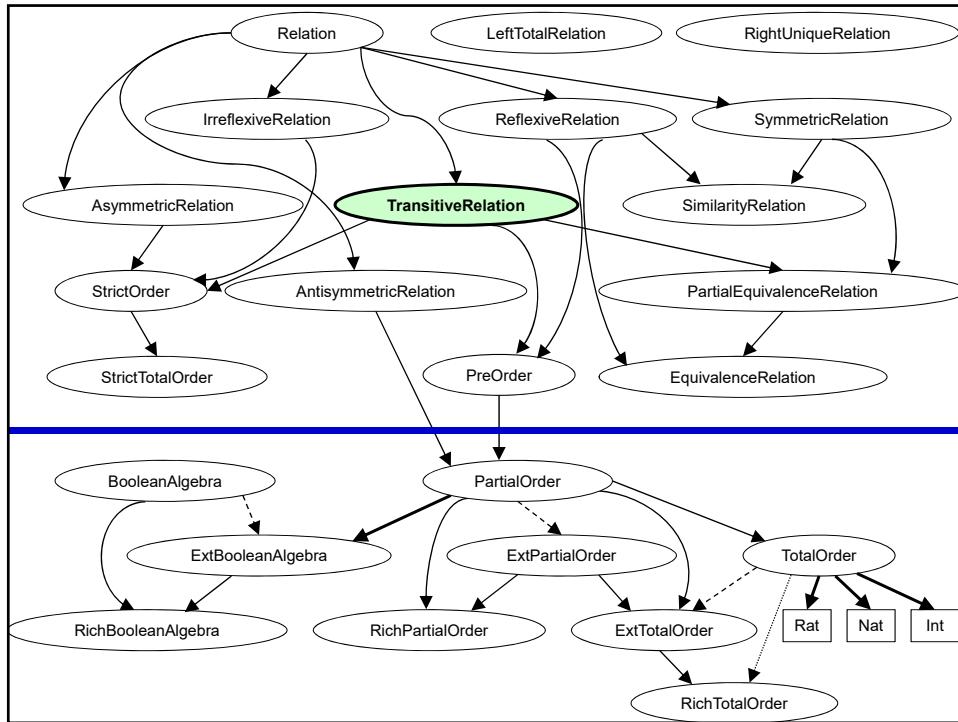
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - Reflexive					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



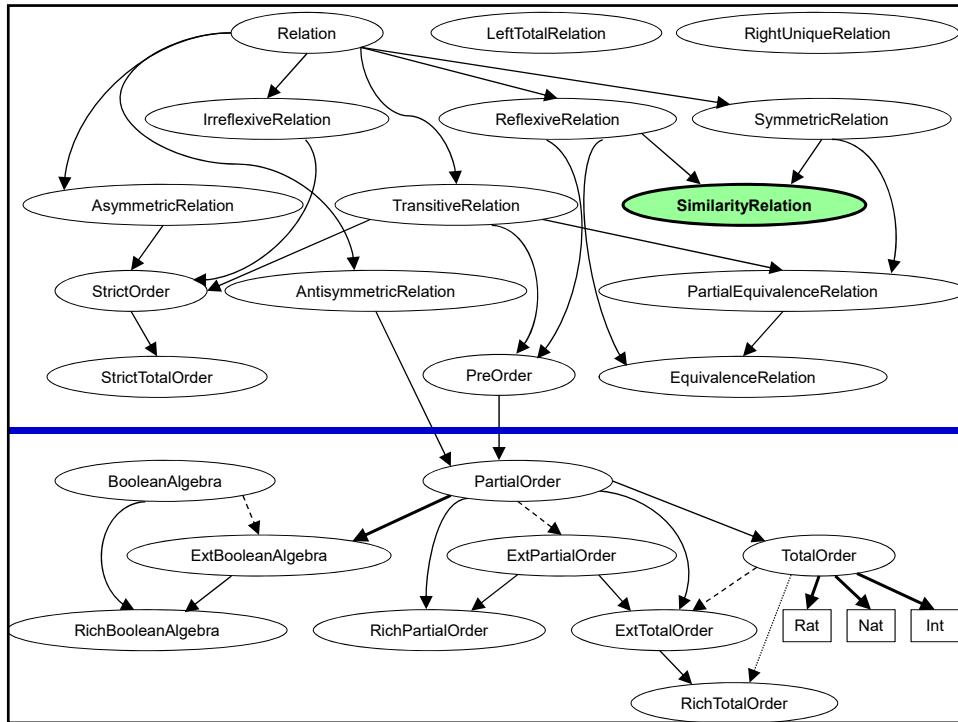
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - SymmetricRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



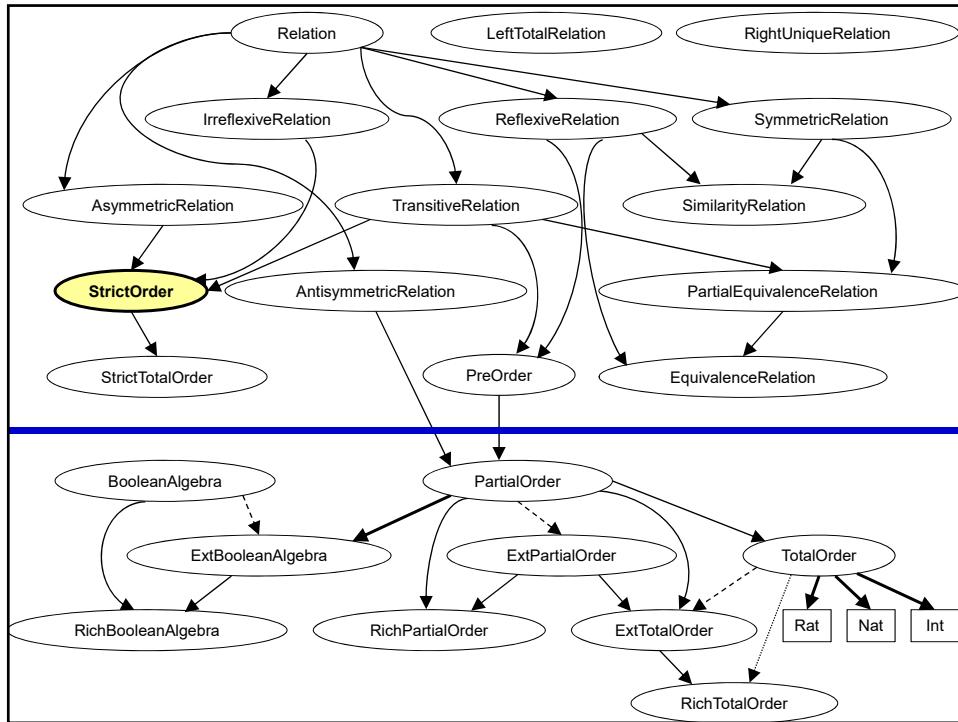
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - AsymmetricRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



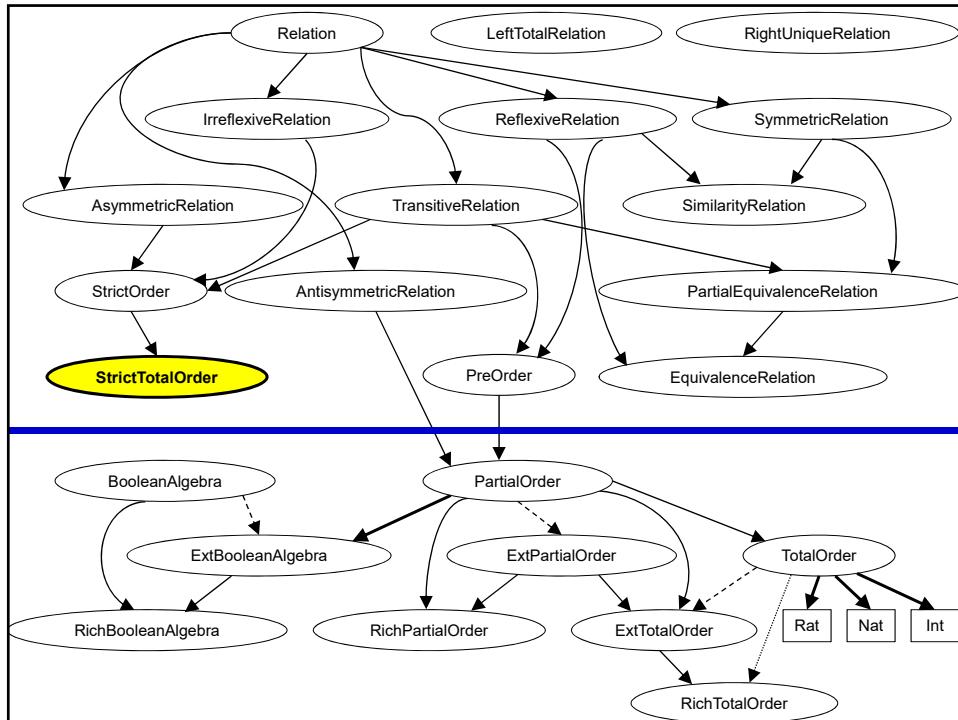
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - TransitiveRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



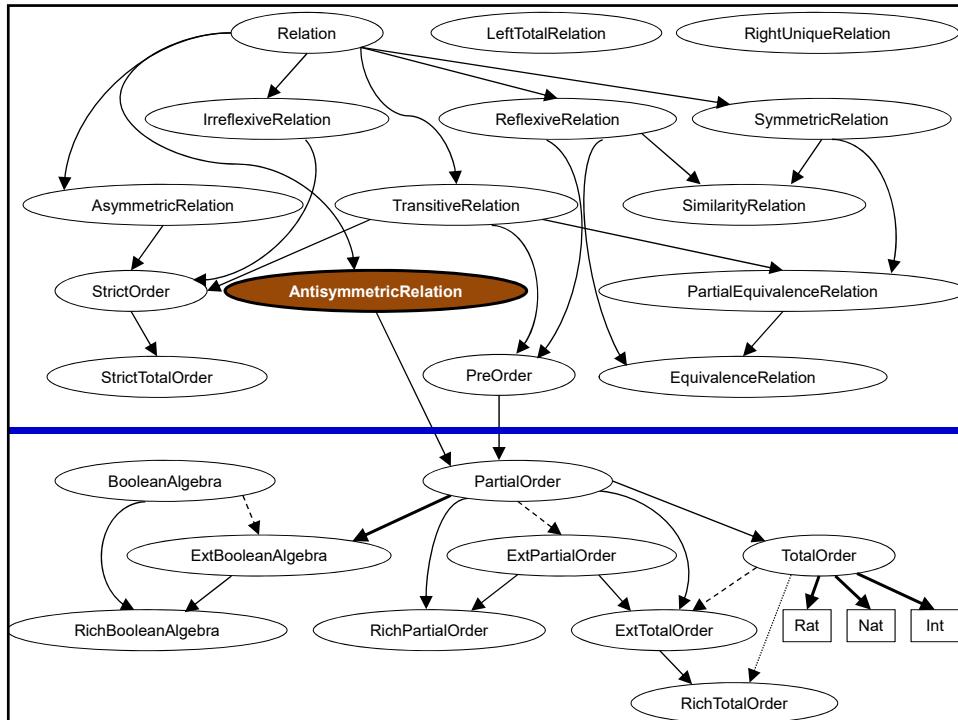
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - SimilarityRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



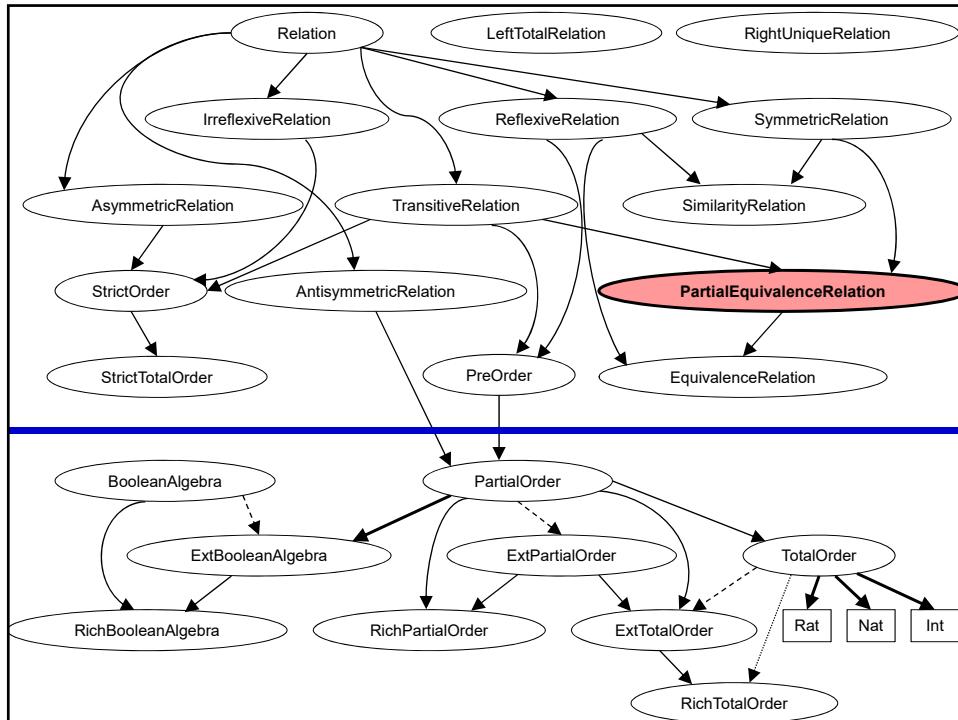
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - StrictOrder					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



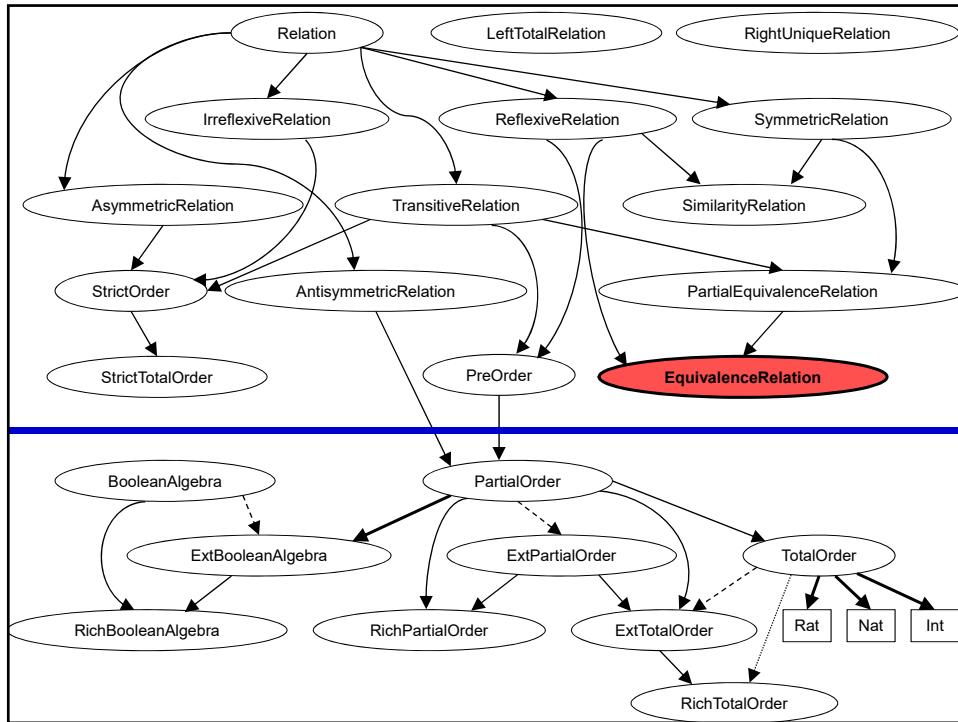
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - StrictTotalOrder					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



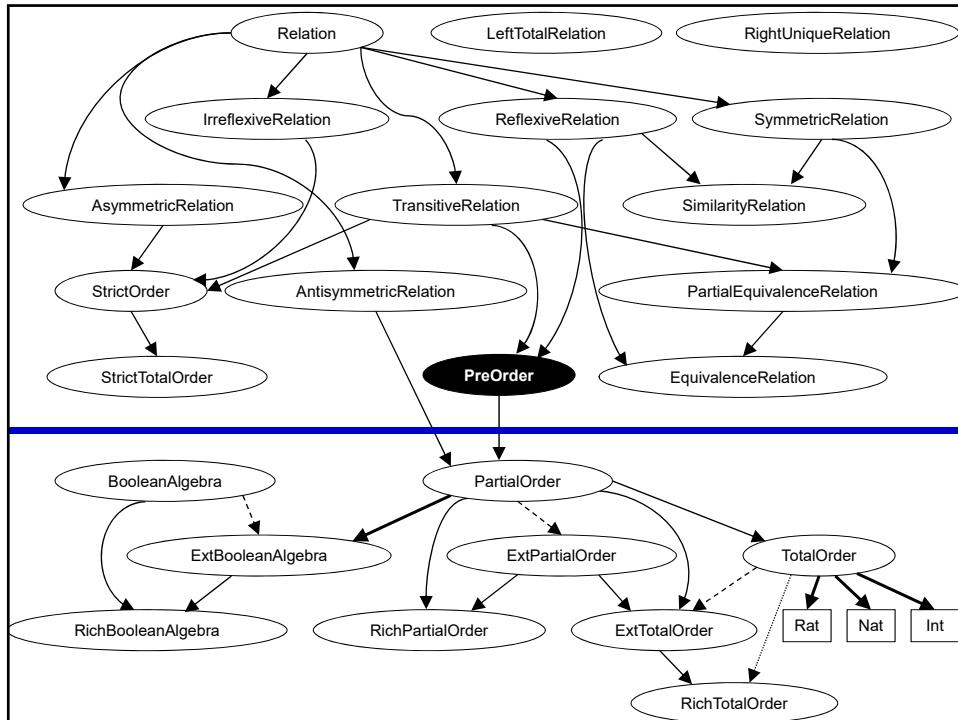
Permutations of Relation Properties, with Unique Identifiers for Relation Oval - AntisymmetricRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



Permutations of Relation Properties, Unique Identifiers for Relation Oval PartialEquivalenceRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



Permutations of Relation Properties, with Unique Identifiers for Relation Oval - EquivalenceRelation					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive



Permutations of Relation Properties, with Unique Identifiers for Relation Oval - PreOrder					
RST-[1,1,1]	Reflexive, Symmetric, Transitive	RSI-[1,1,2]	Reflexive, Symmetric, Intransitive	RSN-[1,1,3]	Reflexive, Symmetric, Nontransitive
IST-[2,1,1]	Irreflexive, Symmetric, Transitive	ISI-[2,1,2]	Irreflexive, Symmetric, Intransitive	ISN-[2,1,3]	Irreflexive, Symmetric, Nontransitive
NST-[3,1,1]	Nonreflexive, Symmetric, Transitive	NSI-[3,1,2]	Nonreflexive, Symmetric, Intransitive	NSN-[3,1,3]	Nonreflexive, Symmetric, Nontransitive
RAT-[1,2,1]	Reflexive, Asymmetric, Transitive	RAI-[1,2,2]	Reflexive, Asymmetric, Intransitive	RAN-[1,2,3]	Reflexive, Asymmetric, Nontransitive
IAT-[2,2,1]	Irreflexive, Asymmetric, Transitive	IAI-[2,2,2]	Irreflexive, Asymmetric, Intransitive	IAN-[2,2,3]	Irreflexive, Asymmetric, Nontransitive
NAT-[3,2,1]	Nonreflexive, Asymmetric, Transitive	NAI-[3,2,2]	Nonreflexive, Asymmetric, Intransitive	NAN-[3,2,3]	Nonreflexive, Asymmetric, Nontransitive
RNT-[1,3,1]	Reflexive, Nonsymmetric Transitive	RNI-[1,3,2]	Reflexive, Nonsymmetric Intransitive	RNN-[1,3,3]	Reflexive, Nonsymmetric Nontransitive
INT-[2,3,1]	Irreflexive, Nonsymmetric Transitive	INI-[2,3,2]	Irreflexive, Nonsymmetric Intransitive	INN-[2,3,3]	Irreflexive, Nonsymmetric Nontransitive
NNT-[3,3,1]	Nonreflexive Nonsymmetric Transitive	NNI-[3,3,2]	Nonreflexive Nonsymmetric Intransitive	NNN-[3,3,3]	Nonreflexive Nonsymmetric Nontransitive