

Chapter18TestComponents

XML Metadata Test Coverage

The standard mappings of Company model will use the following elements and attributes.

XML Element/attribute	Test	Model	Mapping	Priority	Status			
<IELEMENT jdo ((package)+, (query)*, (extension*))>	CompletenessTest	Company	default	1	done			
<IELEMENT orm ((package)+, (query)*, (extension*))>	CompletenessTest	Company	default	1	done			
<IATTLIST orm catalog CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IATTLIST orm schema CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IELEMENT package (interface*, class*, sequence*, extension*)>	CompletenessTest	Company	default	1	done			
<IATTLIST package name CDATA #REQUIRED>	CompletenessTest	Company	default	1	done			
<IATTLIST package catalog CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IATTLIST package schema CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IELEMENT interface ((property)*, (extension*))>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST interface name CDATA #REQUIRED>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST interface table #CDATA #IMPLIED>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST interface catalog CDATA #IMPLIED>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST interface schema CDATA #IMPLIED>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST interface requires-extent (true	false) ? true?>	InterfaceTest	Interface model	interface mapping	7	.		
<IELEMENT property ((collection	map	array	column)? , extension*)>	InterfaceTest	Interface model	interface mapping	7	.
<IATTLIST property name CDATA #REQUIRED>	InterfaceTest	Interface model	interface mapping	7	.			
<IATTLIST property column CDATA #IMPLIED>	InterfaceTest	Interface model	interface mapping	7	.			
<IELEMENT class (datastore-identity?, implements*, inheritance?, join*, foreign-key*, index*, field*, version?, query*, fetch-group*, extension*)>	CompletenessTest	Company	default	1	done			
<IATTLIST class name CDATA #REQUIRED>	CompletenessTest	Company	default	1	done			
<IATTLIST class catalog CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IATTLIST class schema CDATA #REQUIRED>	CompletenessTest	Company	different mapping	.	.			
<IATTLIST class identity-type (application	datastore	nondurable) #IMPLIED>	CompletenessTest	Company	default	1	done	
<IATTLIST class table CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<IATTLIST class requires-extent (true	false) ? true?>	CompletenessTest	Company	default	1	done		
<IATTLIST class persistence-capable-superclass CDATA #IMPLIED>	n/a	.	.	.	done			
<IATTLIST class embedded-only (true	false) #IMPLIED>	CompletenessTest	Company	default	1	done		
<IATTLIST class persistence-modifier (persistence-capable	persistence-aware	non-persistent) #IMPLIED>	CompletenessTest	Company	.	.	persistence-aware tested	
<IELEMENT join (column*, index?, foreign-key?, extension*)>	CompletenessTest	Company	default	1	.			
<IATTLIST join table CDATA #IMPLIED>	CompletenessTest	Company	default	1	different mapping			
<IATTLIST join column CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			

<!ATTLIST join outer (true	false) ? false?>	++	Company	default	.	.		
<!ATTLIST join foreign-key CDATA #IMPLIED> [CompletenessTest Company default 1 No such attribute!								
<!ATTLIST join delete-action (restrict	cascade	null	default	none) #IMPLIED>	CompletenessTest	Company	default	? .
<!ATTLIST join indexed (true	false	unique) #IMPLIED>	CompletenessTest	Company	default	?	.	
<!ATTLIST join unique (true	false) #IMPLIED>	CompletenessTest	Company	default	?	.		
<!ELEMENT datastore-identity ((column)*, (extension)*)>	CompletenessTest	Company	default	1	done			
<!ATTLIST datastore-identity column CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST datastore-identity strategy CDATA #IMPLIED>	CompletenessTest	Company	multiple mappings	5	.			
<!ATTLIST datastore-identity sequence-name CDATA #IMPLIED>	++	Company	multiple mappings	.	.			
<!ATTLIST datastore-identity factory-class CDATA #IMPLIED>	++	Company	multiple mappings	.	.			
<!ELEMENT implements ((property-field)+, (extension)*)>	Interface Test	Interface model	interface mapping	7	.			
<!ATTLIST implements name CDATA #REQUIRED>	Interface Test	Interface model	interface mapping	7	.			
<!ELEMENT inheritance (discriminator?, extension*)>	CompletenessTest	Company	.	.	.			
<!ATTLIST inheritance strategy CDATA #IMPLIED>	CompletenessTest	Company	multiple mappings	2	.			
<!ELEMENT discriminator (column?, extension*)>	CompletenessTest	Company	.	3	.			
<!ATTLIST discriminator column CDATA #IMPLIED>	CompletenessTest	Company	multiple	3	done			
<!ATTLIST discriminator value CDATA #IMPLIED>	CompletenessTest	Company	multiple	3	.			
<!ATTLIST discriminator strategy CDATA #IMPLIED>	CompletenessTest	Company	multiple	3	done			
<!ELEMENT column (extension*)>	CompletenessTest	Company	default	1	done			
<!ATTLIST column name CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST column target CDATA #IMPLIED>	CompletenessTest	Company	default	1	different model			
<!ATTLIST column target-field CDATA #IMPLIED>	++	special test xcalia	.	.	.			
<!ATTLIST column jdbc-type CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST column sql-type CDATA #IMPLIED>	CompletenessTest	Company	default	.	done			
<!ATTLIST column length CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST column scale CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST column allows-null CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ELEMENT property-field (extension*)>	Interface Test	Interface model	interface mapping	7	.			
<!ATTLIST property-field name #REQUIRED>	Interface Test	Interface model	interface mapping	7	.			
<!ATTLIST property-field field-name #REQUIRED>	Interface Test	Interface model	interface mapping	7	.			
<!ELEMENT field ((collection	map	array	(column*)? , join? , element? , key? , value? , order? , embedded? , index? , foreign-key? , extension*)?>	CompletenessTest	Company	default	1	done
<!ATTLIST field name CDATA #REQUIRED>	CompletenessTest	Company	default	1	done			
<!ATTLIST field persistence-modifier (persistent	transactional	none) #IMPLIED>	CompletenessTest	Company	default	1	Only "persistent" used. New insurance model.	

<!ATTLIST field table CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST field null-value (exception	default	none "none">	CompletenessTest	Company	different mapping	4		exception requires a different test; default requires different mapping, test data;
<!ATTLIST field default-fetch-group (true	false) #IMPLIED>	different test	Company	different mappings	4		not testable	
<!ATTLIST field embedded (true	false) #IMPLIED>	CompletenessTest	Company	different mappings	4		element (not attribute) tested in Company model	
<!ATTLIST field serialized (true	false) #IMPLIED>	CompletenessTest	Company	different mappings	4		done	
<!ATTLIST field dependent (true	false) #IMPLIED>	CompletenessTest	Company	default	1		different mapping?	
<!ATTLIST field value-factory CDATA #IMPLIED>	different test	special model	special mapping	8	.			
<!ATTLIST field foreign-key CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ATTLIST field load-fetch-group CDATA #IMPLIED>	CompletenessTest	Company	different mapping	4	.			
<!ATTLIST field fetch-depth CDATA #IMPLIED>	n	different test case	.	.	.			
<!ELEMENT foreign-key (column*, extension*)>	CompletenessTest	Company	default	1	done			
<!ATTLIST foreign-key deferred (true	false) #IMPLIED>	different test case	Company	different mapping	8	.		
<!ATTLIST foreign-key delete-action (cascade	restrict	null	default) #IMPLIED>	n	what does this mean?	.		.
<!ATTLIST foreign-key update-action (cascade	restrict	null	default) #IMPLIED>	n	what does this mean?	.		.
<!ATTLIST foreign-key unique (true	false) #IMPLIED>	different test case	Company	different mapping	8	.		
<!ATTLIST foreign-key name CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<!ELEMENT collection (extension*)>	CompletenessTest	Company	default	1	done			
<!ATTLIST collection element-type CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	done (default mapping)			
<!ATTLIST collection embedded-element (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ATTLIST collection dependent-element (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ELEMENT map (extension*)>	CompletenessTest	Collections	default Collections	6	done			
<!ATTLIST map key-type CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	done			
<!ATTLIST map embedded-key (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ATTLIST map dependent-key (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ATTLIST map value-type CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	done			
<!ATTLIST map embedded-value (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ATTLIST map dependent-value (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<!ELEMENT key (column*, index?, embedded?, foreign-key?, extension*)>	CompletenessTest	Collections	default Collections	6	.			
<!ATTLIST key column CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	done			

<IATTLIST key serialized (true	false) #IMPLIED>	CompletenessTest	Company	different mapping	4	this is going away		
<IATTLIST key foreign-key CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	.			
<IELEMENT value (column*, index?, embedded?, foreign-key?, extension*)>	CompletenessTest	Collections	default Collections	6	.			
<IATTLIST value column CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	done			
<IATTLIST value serialized (true	false) #IMPLIED>	CompletenessTest	Company	different mapping	4	this is going away		
<IATTLIST value foreign-key CDATA #IMPLIED>	CompletenessTest	Collections	default Collections	6	.			
<IELEMENT array (extension*)>	CompletenessTest	Collections	default Collections	6	.			
<IATTLIST array embedded-element (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<IATTLIST array dependent-element (true	false) #IMPLIED>	CompletenessTest	Collections	default Collections	6	.		
<IELEMENT element (column*, index?, embedded?, foreign-key?, extension*)>	CompletenessTest	Company	default	1	done			
<IATTLIST element column CDATA #IMPLIED>	CompletenessTest	Company	default	1	done			
<IATTLIST element serialized (true	false) #IMPLIED>	CompletenessTest	Company	different mapping	4	this is going away		
<IATTLIST element foreign-key CDATA #IMPLIED>	CompletenessTest	Company	default	1	no such attribute			
<IATTLIST element delete-action (restrict	cascade	null	default	none) #IMPLIED>	CompletenessTest	Company	default	? .
<IATTLIST element indexed (true	false	unique) #IMPLIED>	CompletenessTest	Company	default	?	.	
<IATTLIST element unique (true	false) #IMPLIED>	CompletenessTest	Company	default	?	.		
<IELEMENT order (column*, extension*)>	TestList Collections	Collections	.	.	done			
<IATTLIST order column CDATA #IMPLIED>	TestList Collections	Collections	.	.	done			
<IELEMENT fetch-group (fetch-group	field)*>	n	.	.	.	.		
<IATTLIST fetch-group name CDATA #REQUIRED>	n	.	.	.	.			
<IATTLIST fetch-group post-load (true	false) #IMPLIED>	n	.	.	.	.		
<IELEMENT embedded (field*, owner?, extension*)>	CompletenessTest	Company	default	1	done			
<IELEMENT owner (field?, extension*)>	n	different model	.	.	.			
<IELEMENT sequence (extension*)>	++	Company	different mapping	.	.			
<IATTLIST sequence name CDATA #REQUIRED>	++	Company	different mapping	.	.			
<IATTLIST sequence sequence-name CDATA #REQUIRED>	++	Company	different mapping	.	.			
<IATTLIST sequence strategy (non-transactional	transactional-contiguous	transactional-holes-allowed) #REQUIRED>	++	Company	different mapping	.	.	
<IELEMENT index (column*, extension*)>	CompletenessTest	Company	default	1	.			
<IATTLIST index name CDATA #IMPLIED>	CompletenessTest	Company	default	1	.			
<IATTLIST index unique (true	false) ? false?>	CompletenessTest	Company	default	1	.		
<IELEMENT query (extension*)>	n/a	.	.	.	.			
<IATTLIST query name CDATA #IMPLIED>	n/a	.	.	.	.			
<IATTLIST query language CDATA #IMPLIED>	n/a	.	.	.	.			
<IATTLIST query ignore-cache CDATA #IMPLIED>	n/a	.	.	.	.			
<IATTLIST query unmodifiable (true	false) false>	n/a	.	.	.	.		
<IELEMENT extension ANY>	n/a	.	.	.	.			

<!ATTLIST extension vendor-name CDATA #REQUIRED>	n/a	.	.	.	.
<!ATTLIST extension key CDATA #IMPLIED>	n/a	.	.	.	.
<!ATTLIST extension value CDATA #IMPLIED>	n/a	.	.	.	.

++ Additional functionality beyond basic [CompletenessTest](#) required to adequately test.

Go to [Chapter18TestCoverageNotes](#).