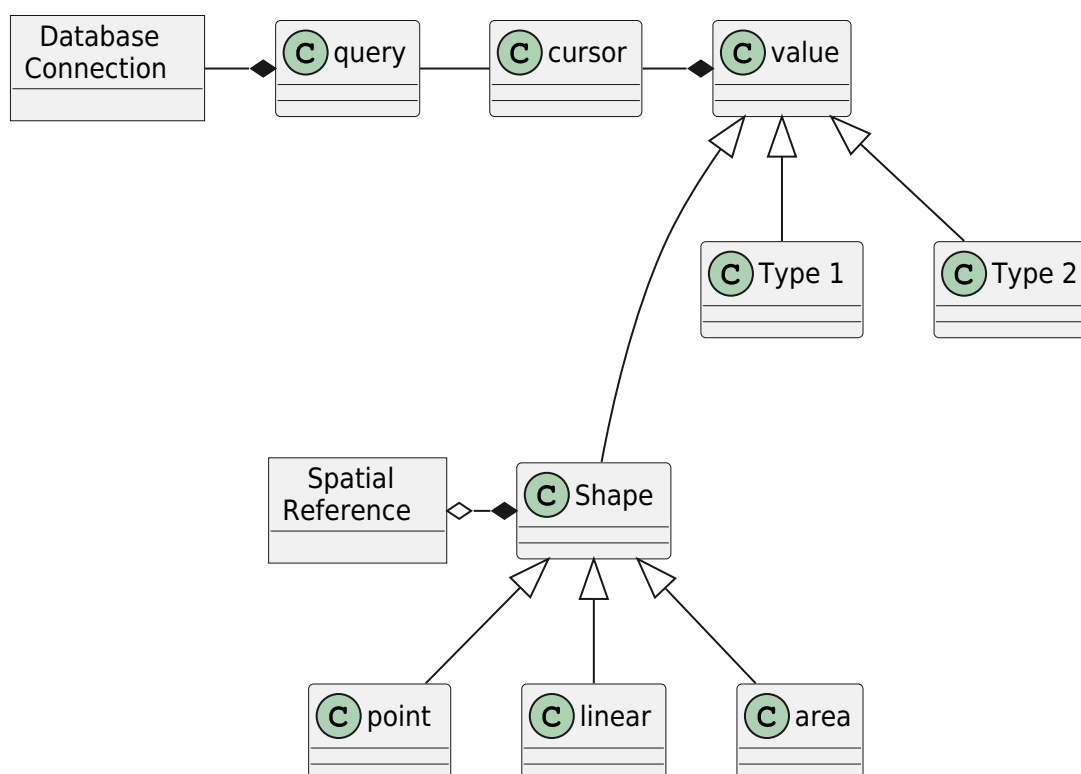# Concepts

What's ArcSDE

Storing Geographic Features in a SQL database

Data Access

Geometry

Introducing Geometry

Shape validation

ArcSDE shape verification rules

The points of an area shape are stored counterclockwise although the ArcSDE software can return points in either direction. If you generate an area shape whose coordiantes are clockwise, the ArcSDE software changed the rotation to ensure that the coordinate list follows a counterclockwise direction.

Operations of Geometry Objects

Spatial relations

Predicates

The pattern matrix contains the acceptable values for each of the intersection matrix cells. The possible pattern values are

- T : An intersection must exist; dim = 0, 1, or 2.
- F : An intersection must not exist; dim = -1
- * : It does not matter if an intersection exists or not; dim = -1, 0, 1, or 2.
- 0 : An intersection must exist and its maximum dimension must be 0; dim = 0.
- 1 : An intersection must exist and its maximum dimension must be 0; dim = 1.
- 2 : An intersection must exist and its maximum dimension must be 0; dim = 2.

Equal

		b		
		Interia	Boundary	Exterior
a	Interia	T	*	F
	Boundary	*	*	F
	Exterior	F	F	*

Representations of Geometry

Well-known representations of geometry

Geometry Representation	Specification maintained by:	Encoding	Supports 2D	Supports Elevations
Well-Known Text(WKT)	ISO/OGC	ASCII	Yes	Yes[1]
Well-Known Binary(WKB)	ISO/OGC	Binary	Yes	No
Shape File	ESRI	Binary	Yes	Yes
ArcSDE Binary	ESRI	Binary	Yes	Yes

The well-known text representation for geometry

- ArcMap
- ArcSDE

[1]

Additional tags have been added by ESRI to support Elevations and Measures

From:
http://jace.link/ - **Various Ways**

Permanent link:
http://jace.link/open/arcsde-8.3-developer-help

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