Geodatabase Object Model

Topology

Esri® ArcGIS® Pro SDK 3.2

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### Types of Classes

1. **Abstract Class**
   - A specification for instances of subclasses (through type inheritance).

2. **Class**
   - Specifies an object with properties and methods, and can be created either through a public constructor or from a method from another class. Static classes cannot be instantiated.

3. **Abstract Class**
   - A class, but the abstract class cannot meaningfully exist without the whole class.

4. **Interface**
   - A specification for instances of subclasses (through type inheritance).

5. **Enum**
   - An enumeration is a relationship between objects of classes in which neither object has ownership over the other.

### Types of Relationships

1. **Association**
   - A relationship in which objects from subclasses share properties and methods with objects from the base class, but also may contain additional properties and methods.

2. **Composition**
   - A relationship in which one object from one class has a method that creates an object from another class.

3. **Aggregation**
   - A relationship in which objects from the 'whole' class own the 'part' class, and the 'part' class cannot meaningfully exist without the 'whole' class.

4. **Inheritance**
   - A relationship in which objects from the 'whole' class own the 'part' class, and the 'part' class can exist independently of the 'whole' class.

### Property Types & Output Types

These are provided using C# data types. The output type gives an indication of the actual return type of the method or of its parameter passed by reference.