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-- @km3version km32007
-- @name KM3
-- @version 2007
package KM3 {

    abstract class ModelElement {
        attribute name : String;
    }

    abstract class PackageElement extends ModelElement {
        reference "package" : Package oppositeOf contents;
    }

    class Metamodel {
        reference contents[*] ordered container : Package oppositeOf metamodel;
    }

    class Package extends PackageElement {
        reference metamodel : Metamodel oppositeOf contents;
        reference contents[*] ordered container : PackageElement oppositeOf "package";
    }

-- @begin Classifiers
    abstract class Classifier extends PackageElement {

    class Class extends Classifier {
        attribute isAbstract : Boolean;
        reference supertypes[*] ordered : Class;
        reference structuralFeatures[*] ordered container : StructuralFeature oppositeOf owner;
    }

    class DataType extends Classifier {

    class Enumeration extends DataType {
        reference literals[*] ordered container : EnumLiteral oppositeOf "enumeration";
    }

    class EnumLiteral extends ModelElement {
        reference "enumeration" : Enumeration oppositeOf literals;
    }
-- @end Classifiers

-- @begin StructuralFeatures
    abstract class StructuralFeature extends ModelElement {
        attribute lower : Integer;
        attribute upper : Integer;
        attribute isOrdered : Boolean;
        reference owner : Class oppositeOf structuralFeatures;
        reference type : Classifier;
    }

    class Attribute extends StructuralFeature {
        attribute isUnique : Boolean;
    }

    class Reference extends StructuralFeature {
        reference opposite[0-1] : Reference;
        attribute isContainer : Boolean;
    }
-- @end StructuralFeatures
}

package PrimitiveTypes {
    datatype Boolean;
    datatype Integer;
    datatype String;
}

```