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On semi-automated matching and integration of database schemas

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Appendix B

XSD for SDML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ns1="http://namespaces.sasmint.org/2007/04/GraphModel"
  targetNamespace="http://namespaces.sasmint.org/2007/04/GraphModel" elementFormDefault="qualified"
  attributeFormDefault="qualified" version="0.9">
  <xs:element name="derivationType">
    <xs:complexType mixed="true">
      <xs:choice>
        <xs:element ref="ns1:tableRenameDerivation"/>
        <xs:element ref="ns1:tableUnionDerivation"/>
        <xs:element ref="ns1:tableSubtractDerivation"/>
        <xs:element ref="ns1:tableRestrictDerivation"/>
        <xs:element ref="ns1:columnRenameDerivation"/>
        <xs:element ref="ns1:columnUnionDerivation"/>
        <xs:element ref="ns1:columnStringAdditionDerivation"/>
      </xs:choice>
      <xs:attribute name="refDerivationNode" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="columnRenameDerivation">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ns1:derivationNode"/>
        <xs:element ref="ns1:derivationType" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="columnStringAdditionDerivation">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ns1:derivationNode" maxOccurs="unbounded"/>
        <xs:element ref="ns1:derivationType" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="columnUnionDerivation">
```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ns1:derivationNode" maxOccurs="unbounded"/>
        <xs:element ref="ns1:derivationType" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="derivationNode">
    <xs:complexType>
      <xs:attribute name="id" type="xs:string" use="required"/>
      <xs:attribute name="name" type="xs:string" use="required"/>
      <xs:attribute name="type" type="xs:string" use="required"/>
      <xs:attribute name="schema" type="xs:string" use="required"/>
      <xs:attribute name="table" type="xs:string"/>
      <xs:attribute name="pkColumn" type="xs:string"/>
      <xs:attribute name="refTable" type="xs:string"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="sedge">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ns1:similarity" minOccurs="0"/>
      </xs:sequence>
      <xs:attribute name="id" type="xs:string" use="required"/>
      <xs:attribute name="sourceNodeId" type="xs:string" use="required"/>
      <xs:attribute name="targetNodeId" type="xs:string" use="required"/>
      <xs:attribute name="type" type="xs:string" use="required"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="sgraph">
    <xs:complexType>
      <xs:choice maxOccurs="unbounded">
        <xs:element ref="ns1:snode" maxOccurs="unbounded"/>
        <xs:element ref="ns1:sedge" minOccurs="0"/>
      </xs:choice>
    </xs:complexType>
  </xs:element>
  <xs:element name="snode">
    <xs:complexType mixed="true">
      <xs:choice minOccurs="0">
        <xs:element ref="ns1:tableRenameDerivation"/>
        <xs:element ref="ns1:tableUnionDerivation"/>
        <xs:element ref="ns1:tableSubtractDerivation"/>
        <xs:element ref="ns1:tableRestrictDerivation"/>
        <xs:element ref="ns1:columnRenameDerivation"/>
        <xs:element ref="ns1:columnUnionDerivation"/>
        <xs:element ref="ns1:columnStringAdditionDerivation"/>
      </xs:choice>
      <xs:attribute name="id" type="xs:string" use="required"/>
      <xs:attribute name="name" type="xs:string" use="required"/>
      <xs:attribute name="type" type="xs:string" use="required"/>
      <xs:attribute name="schema" type="xs:string"/>
      <xs:attribute name="table" type="xs:string"/>
      <xs:attribute name="pkColumn" type="xs:string"/>
      <xs:attribute name="refTable" type="xs:string"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="restrictionExpression">
    <xs:complexType>

```

```

        <xs:attribute name="value" use="required">
          <xs:simpleType>
            <xs:restriction base="xs:string"/>
          </xs:simpleType>
        </xs:attribute>
      </xs:complexType>
    </xs:element>
    <xs:element name="similarity" type="xs:double"/>
    <xs:element name="tableRenameDerivation">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="ns1:derivationNode"/>
          <xs:element ref="ns1:derivationType" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="tableRestrictDerivation">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="ns1:derivationNode"/>
          <xs:element ref="ns1:restrictionExpression"/>
          <xs:element ref="ns1:derivationType" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="tableSubtractDerivation">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="ns1:derivationNode" maxOccurs="unbounded"/>
          <xs:element ref="ns1:derivationType" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="tableUnionDerivation">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="ns1:derivationNode" maxOccurs="unbounded"/>
          <xs:element ref="ns1:derivationType" minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:schema>

```