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<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:entites="http://www.slc.co.uk/course/entities/1.0"
xmlns:types="http://www.slc.co.uk/course/types/1.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.slc.co.uk/course/entities/1.0"
elementFormDefault="unqualified" attributeFormDefault="unqualified">
  <xs:annotation>
    <xs:documentation>SLC Course Database Schema</xs:documentation>
    <xs:documentation>Author: John McTeague</xs:documentation>
    <xs:documentation>Version: 1.0</xs:documentation>
    <xs:documentation>Simple schema based on existing DB
schema</xs:documentation>
  </xs:annotation>
  <xs:import namespace="http://www.slc.co.uk/course/types/1.0"
schemaLocation="./HEICourseDatabaseTypes.xsd"/>
  <xs:complexType name="institution">
    <xs:annotation>
      <xs:documentation>
        Top level element for describing a higher education
institution. The high level institution details are
        common across all academic years.
      </xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="heiCode" type="types:heiCode"/>
      <xs:element name="fullName" type="types:institutionFullName"/>
      <xs:element name="shortName"
type="types:institutionShortName"/>
      <xs:element name="country" type="types:institutionCountry"
minOccurs="0"/>
      <xs:element name="ucasCollegeCode" type="types:ucasCollegeCode"
minOccurs="0"/>
      <xs:element name="location" type="entites:location"
minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="institutionYear"
type="entites:institutionYear" minOccurs="0"/>
      <xs:element name="course" type="entites:course" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="course">
    <xs:annotation>
      <xs:documentation>
        Element representing a course at an institution. Each
course can be run over multiple academic years,
        for multiple years of study within that academic year,
and within that year there may be multiple terms.
      </xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="slcCourseCode" type="types:slcCourseCode"
minOccurs="0"/>
      <xs:element name="code" type="types:code" minOccurs="0"
maxOccurs="unbounded"/>
      <xs:element name="title" type="types:courseTitle"
minOccurs="0"/>
      <xs:element name="shortName" type="types:courseShortName"/>

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minOccurs="0"/>
    <xs:element name="description" type="types:courseDescription"
minOccurs="0"/>
    <xs:element name="duration" type="types:courseDuration"
minOccurs="0"/>
    <xs:element name="type" type="types:courseTypes"/>
    <xs:element name="qualification"
type="types:qualificationCode" minOccurs="0"/>
    <xs:element name="methodOfAttendance"
type="types:methodOfAttendance"/>
    <xs:element name="status" type="types:courseStatus"/>
    <xs:element name="ucasCourse" type="types:yesNo"
minOccurs="0"/>
    <xs:element name="ucasSuffix" type="types:campus"
minOccurs="0"/>
    <xs:element name="lastUpdatedDateTime" type="types:timeStamp"
minOccurs="0" maxOccurs="1"/>
    <xs:element name="courseAcademicYear"
type="entites:courseAcademicYear" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="courseAcademicYear">
  <xs:annotation>
    <xs:documentation>
      Element representing a course at an institution. Each
      course can be run over multiple academic years,
      for multiple years of study within that academic year,
      and within that year there may be multiple terms.
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="courseYear" type="entites:courseYear"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="academicYear" type="types:academicYear"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="courseYear">
  <xs:annotation>
    <xs:documentation>Information about a course that varies year
on year</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="yearOfStudy"
type="types:courseYearYearOfStudy"/>
    <xs:element name="feeCap" type="types:courseYearFeeCap"
minOccurs="0"/>
    <xs:element name="term" type="entites:courseTerm"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="courseTerm">
  <xs:annotation>
    <xs:documentation>
      A term has a number, start and end dates.
      Note that the campus element identifies the location at
      which
      the course term takes place and must refer to a pre-
      existing location
    </xs:documentation>
  </xs:annotation>

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        entity.
    </xs:documentation>
</xs:annotation>
<xs:sequence>
    <xs:element name="number" type="types:courseTermNumber"/>
    <xs:element name="campus" type="types:campus"/>
    <xs:element name="start" type="types:date" minOccurs="0"/>
    <xs:element name="end" type="types:date" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="institutionYear">
    <xs:annotation>
        <xs:documentation>Information about an institution that can
vary year on year</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="academicYear" type="types:academicYear"/>
        <xs:element name="variableFees" type="types:yesNo"/>
        <xs:element name="feeCap" type="types:institutionYearFeeCap"
minOccurs="0"/>
        <xs:element name="predictedNumberOfCourses"
type="types:institutionYearPredictedNumberOfCourses" minOccurs="0"/>
        <xs:element name="lastUpdatedDateTime" type="types:timeStamp"
minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="location">
    <xs:annotation>
        <xs:documentation>
            A location for an institution. Does not vary year on
year, is simply active or not. There should only be
            one location that is primary
        </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="heiCode" type="types:heiCode"/>
        <xs:element name="campus" type="types:campus"/>
        <xs:element name="franchise" type="types:yesNo"/>
        <xs:element name="primary" type="types:yesNo"/>
        <xs:element name="name" type="types:locationName"/>
        <xs:element name="addressLine1"
type="types:locationAddressLine" minOccurs="0"/>
        <xs:element name="addressLine2"
type="types:locationAddressLine" minOccurs="0"/>
        <xs:element name="addressLine3"
type="types:locationAddressLine" minOccurs="0"/>
        <xs:element name="addressLine4"
type="types:locationAddressLine" minOccurs="0"/>
        <xs:element name="addressLine5"
type="types:locationAddressLine" minOccurs="0"/>
        <xs:element name="postCode" type="types:postcode"
minOccurs="0"/>
        <xs:element name="phoneNumber" type="types:phoneNumber"
minOccurs="0"/>
        <xs:element name="faxNumber" type="types:phoneNumber"
minOccurs="0"/>

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        <xs:element name="emailAddress" type="types:emailAddress"
minOccurs="0"/>
        <xs:element name="active" type="types:yesNo" minOccurs="0"/>
        <xs:element name="lastUpdatedDateTime" type="types:timeStamp"
minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="qualification">
    <xs:annotation>
        <xs:documentation>
            A qualification that is attained as a result of
successfully attending a course.
        </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="code" type="types:qualificationCode"/>
        <xs:element name="description"
type="types:qualificationDescription"/>
    </xs:sequence>
</xs:complexType>
</xs:schema>
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