NCP Assignment
XML and DTD

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[CB.EN.U4CSE18258]

XML Code -

```xml
<?xml version = "1.0" encoding = "UTF-8" standalone = "no" ?>
<!DOCTYPE address SYSTEM "courses.dtd">
<courses-info>
  <course1>
    <professor-name> Gupta </professor-name>
    <year> 2008 </year>
    <semester> odd </semester>
    <days>
       <day1> Monday </day1>
      <day2> Wednesday </day2>
    </days>
    <roomno> C402 </roomno>
    <time>
    <from> 9 am </from>
    <to> 11 am </to>
    </time>
    <course-name>Introduction to Database Management Systems</course-name>
  </course1>

  <course2>
    <professor-name> </professor-name>
    <year> 2008 </year>
    <semester> odd </semester>
    <days>
       <day1> Friday </day1>
    </days>
    <roomno> C402 </roomno>
    <time>
    <from> 9:45 am </from>
    <to> 12:20 pm </to>
    </time>
    <course-name>Introduction to Database Management Systems Lab</course-name>
  </course2>

  <course3>
    <professor-name> Menon </professor-name>
    <year> 2008 </year>
    <semester> odd </semester>
    <days>
```

```xml
        <day1> Monday </day1>
      <day2> Tuesday </day2>
      <day3> Thursday </day3>
    </days>
    <roomno> C401 </roomno>
    <time>
    <from> 1:10 pm </from>
    <to> 2:00 pm </to>
    </time>
    <course-name>Advanced Database Management Systems</course-name>
    <numberofstudents> 35 </numberofstudents>
</course3>

<course4>
    <professor-name> Dr.Suma </professor-name>
    <year> 2009 </year>
    <semester> odd </semester>
    <days>
      <day1> Tuesday </day1>
      <day2> Thursday </day2>
    </days>
    <roomno> C405 </roomno>
    <time>
    <from> 3:00 pm </from>
    <to> 4:30 pm </to>
    </time>
    <course-name>Introduction to Database Management Systems</course-name>
    <numberofstudents> 63 </numberofstudents>
</course4>

<course5>
    <professor-name> Dr.Suma </professor-name>
    <year> 2009 </year>
    <semester> odd </semester>
    <days>
      <day1> Tuesday </day1>
      <day2> Thursday </day2>
    </days>
    <roomno> C405 </roomno>
    <time>
    <from> 2:10 pm </from>
    <to> 4:00 pm </to>
    </time>
    <course-name>Introduction to Database Management Systems Lab</course-name>
    <numberofstudents> 63 </numberofstudents>
</course5>

<course6>
```

```
      <professor-name> Gowtham </professor-name>
      <year> 2009 </year>
      <semester> odd </semester>
      <days>
        <day1> Monday </day1>
        <day2> Wednesday </day2>
        <day3> Friday </day3>
      </days>
      <time>
      <from> 2:10 pm </from>
      <to> 4:00 pm </to>
      </time>
      <course-name>Advanced Database management Systems</course-name>
    </course6>
</courses-info>
```

Courses.dtd File -

```
<!ELEMENT course1
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>
<!ELEMENT course2
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>
<!ELEMENT course3
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>
<!ELEMENT course4
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>
<!ELEMENT course5
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>
<!ELEMENT course6
(professor-name,year,semester,days,roomno,time,course-name,numberofstudents)>

<!ELEMENT days (day1,day2,day3,day4,day5,day6)>
<!ELEMENT time (from,to)>
<!ELEMENT professor-name (#PCDATA)>
<!ELEMENT year (#PCDATA)>
<!ELEMENT semester (#PCDATA)>
<!ELEMENT roomno (#PCDATA)>
<!ELEMENT course-name (#PCDATA)>
<!ELEMENT numberofstudents (#PCDATA)>
<!ELEMENT day1 (#PCDATA)>
<!ELEMENT day2 (#PCDATA)>
<!ELEMENT day3 (#PCDATA)>
<!ELEMENT day4 (#PCDATA)>
<!ELEMENT day5 (#PCDATA)>
<!ELEMENT from (#PCDATA)>
<!ELEMENT to (#PCDATA)>
```