

movies.dtd		
<!ELEMENT	person	(function)* >
<!ATTLIST	person	
	idnum	ID #REQUIRED
	name	CDATA #REQUIRED >
<!ELEMENT	function	EMPTY >
<!ATTLIST	function	
	role	CDATA #REQUIRED >
<!ELEMENT	movie	(rating) (actor)+ (writer)+ (director)+ >
<!ATTLIST	movie	
	idnum	ID #REQUIRED
	title	CDATA #REQUIRED >
<!ELEMENT	rating	EMPTY >
<!ATTLIST	rating	
	stars (*   **   ***   ****   *****)	"" >
<!ELEMENT	actor	EMPTY >
<!ATTLIST	actor	
	ref	CDATA #REQUIRED >
<!ELEMENT	writer	EMPTY >
<!ATTLIST	writer	
	ref	CDATA #REQUIRED >
<!ELEMENT	director	EMPTY >
<!ATTLIST	director	
	ref	CDATA #REQUIRED >

sample.xml

```
<?xml version="1.0" >
<!DOCTYPE movies SYSTEM "movies.dtd" >
<person idnum="1" name="Harrison Ford" >
  <function role="actor" />
</person>

<person idnum="2" name="George Lucas" >
  <function role="director" />
  <function role="screen writer" />
</person>

<person idnum="3" name="Mark Hammil" >
  <function role="actor" />
</person>

<person idnum="4" name="Carrie Fisher" >
  <function role="actor" />
</person>

<person idnum="5" name="Mike Myers" >
  <function role="actor" />
  <function role="screen writer" />
</person>

<person idnum="6" name="Dana Carvey" >
  <function role="actor" />
  <function role="director" />
</person>

<movie idnum="100" name="Star Wars" >
  <rating stars="*****" />
  <actor ref="1" />
  <actor ref="3" />
  <actor ref="4" />
  <writer ref="2" />
  <director ref="2" />
</movie>

<movie idnum="101" name="Austin Powers" >
  <rating stars="****" />
  <actor ref="4" />
```

```
<actor ref="5" />
<writer ref="5" />
<director ref="6" />
</movie>

<movie idnum="102" name="Wayne's World">
  <rating stars="***" />
  <actor ref="5" />
  <actor ref="6" />
  <writer ref="5" />
  <director ref="6" />
</movie>
```