

- **Movie**

- $\text{rdf:type}(\text{uri}(\text{title}), \text{ex:Movie}) \supseteq \text{S1.Movie}(_, \text{title}, _, _, _)$
- $\text{rdf:type}(\text{uri}(\text{title}), \text{ex:Movie}) \supseteq \text{S2.Movie}''(_, \text{title}, _, _, _)$
- $\text{Movie:genre}(\text{uri}(\text{title}), \text{uri}(\text{genre})) \supseteq \text{S1.Movie}(_, \text{title}, \text{genre}, _, _)$
- $\text{Movie:title}(\text{uri}(\text{title}), \text{title}) \supseteq \text{S1.Movie}(_, \text{title}, _, _, _)$
- $\text{Movie:title}(\text{uri}(\text{title}), \text{title}) \supseteq \text{S2.Movie}''(_, \text{title}, _, _, _)$
- $\text{Movie:date}(\text{uri}(\text{title}), \text{date}) \supseteq \text{S1.Movie}(_, \text{title}, _, _, \text{date})$
- $\text{Movie:date}(\text{uri}(\text{title}), \text{publication_date}) \supseteq \text{S2.Movie}''(_, \text{title}, \text{publication_date}, _, _)$
- $\text{Movie:director}(\text{uri}(\text{title}), \text{director}) \supseteq \text{S1.Movie}(_, \text{title}, _, \text{director}, _)$
- $\text{Movie:director}(\text{uri}(\text{title}), \text{director}) \supseteq \text{S2.Movie}''(_, \text{title}, \text{director}, _, _)$

- **Cast**

- $\text{rdf:type}(\text{uri}(\text{name}), \text{ex:Cast}) \supseteq \text{S1.Cast}(_, \text{name}, _, _)$
- $\text{Cast:name}(\text{uri}(\text{name}), \text{name}) \supseteq \text{S1.Cast}(_, \text{name}, _, _)$
- $\text{foaf:Birthday}(\text{uri}(\text{name}), \text{BirthOfDate}) \supseteq \text{S1.Cast}(_, \text{name}, \text{BirthOfDate}, _)$
- $\text{Cast:Nationality}(\text{uri}(\text{name}), \text{uri}(\text{Nationality})) \supseteq \text{S1.Cast}(_, \text{name}, _, \text{Nationality})$

● Theater

- $\text{rdf:type}(\text{uri}(\text{name}), \text{ex:Theater}) \supseteq \text{S2.Theater}(_, \text{name}, _, _, _)$
- $\text{Theater:name}(\text{uri}(\text{name}), \text{name}) \supseteq \text{S2.Theater}(_, \text{name}, _, _, _)$
- $\text{Theater:address}(\text{uri}(\text{name}), \text{address}) \supseteq \text{S2.Theater}(_, \text{name}, \text{address}, _, _)$
- $\text{Theater:phone}(\text{uri}(\text{name}), \text{phone}) \supseteq \text{S2.Theater}(_, \text{name}, _, \text{phone}, _)$
- $\text{Theater:map_code}(\text{uri}(\text{name}), \text{map_code}) \supseteq \text{S2.Theater}(_, \text{name}, _, _, \text{map_code})$

● Movie – Cast

- `Movie:played_by(uri(title), uri(name)) ⊇`
`S1.Movie(m_id, title, _ , _ , _), S1.played_by(m_id, c_id), S1.Cast(c_id, name, _ , _)`

● Schedule

- `rdf:type(uri(s_id), :Schedule) ⊇ S2.Movie_play(s_id, _ , _ , _)`
- `Movie:Screening(uri(s_id), uri(title)) ⊇`
`S2.Movie_play(s_id, mo_id , _ , _), S2.Movie”(mo_id, title, _ , _)`
- `Movie:Screening_at(uri(s_id), uri(name)) ⊇`
`S2.Movie_play(s_id, _ , t_id , _), S2.Theater(t_id, name, _ , _ , _)`
- `Schedule:date(uri(s_id), datetime) ⊇`
`S2.Movie_play(s_id, _ , _ , datetime)`