

Conditional 1-1 mapping

dublinCore
title
author
publisher
type

type = CD | book

CD
title
band
producer

book
title
author
publisher

```
inter_class([dublinCore], [CD],  
  invariants(type = `CD`),  
  equivalences(title = title,  
    author = band,  
    publisher = producer)  
).
```

```
inter_class([dublinCore], [book],  
  invariants(type = `book`),  
  equivalences(title = title,  
    author = author,  
    publisher = publisher)  
).
```

Collapsing structure

dublinCore
title
author
type

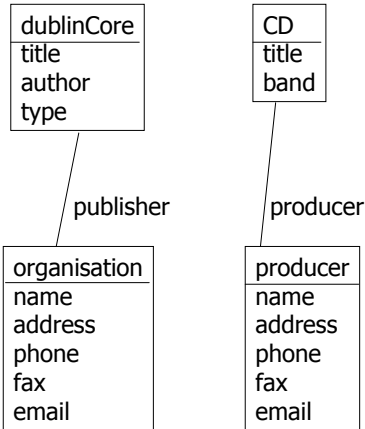
publisher

organisation
name
address
phone
fax
email

CD
title
band
producer

```
inter_class([dublinCore], [CD],  
  invariants(type = `CD`),  
  equivalences(title = title,  
    author = band,  
    publisher=>name = producer),  
  initialisers(publisher=>address = ``,  
    publisher=>phone = ``,  
    publisher=>fax = ``,  
    publisher=>email = ``)  
).
```

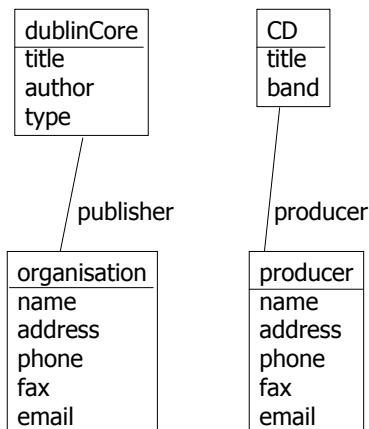
2 approaches to structure



```
inter_class([dublinCore], [CD],
invariants(type = `CD'),
equivalences(title = title,
author = band,
publisher = producer)
).
```

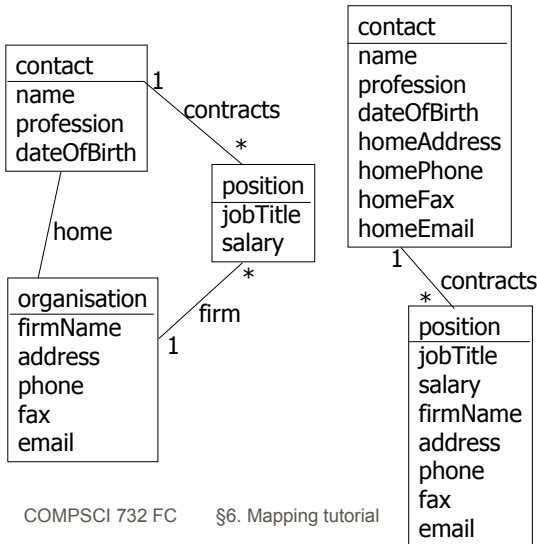
```
inter_class([organisation], [producer],
equivalences(name = name,
address = address,
phone = phone,
fax = fax,
email = email)
).
```

2 approaches to structure



```
inter_class([dublinCore], [CD],
invariants(type = `CD'),
equivalences(title = title,
author = band,
publisher->name = producer->name,
publisher->address = producer->address,
publisher->phone = producer->phone,
publisher->fax = producer->fax,
publisher->email = producer->email)
).
```

Restructurings



```

inter_class([contact], [contact],
  equivalences(name = name,
    profession = profession,
    dateOfBirth = dateOfBirth,
    home=>address = homeAddress,
    home=>phone = homePhone,
    home=>fax = homeFax,
    home=>email = homeEmail,
    contracts = contracts),
  initialisers(home=>firmName = '')
).
  
```

```

inter_class([position], [position],
  equivalences(jobTitle = jobTitle,
    salary = salary,
    firm=>firmName = firmName,
    firm=>address = address,
    firm=>phone = phone,
    firm=>fax = fax,
    firm=>email = email)
).
  
```