

examples > MoviesExample >  example.csv

```
1 international title,director,country,copyright year
2 Stalker,Tarkovsky,USSR,1979
3 Solaris,Soderbergh,USA,2002
4 "Jeanne Dielman, 23 quai du Commerce, 1080 Bruxelles",Akerman,Belgium,1975
5 "Jeanne Dielman, 23 quai du Commerce, 1080 Bruxelles",Akerman,France,1975
6 The Sacrifice,Tarkovsky,Sweden,1986
7 Solaris,Tarkovsky,USSR,1972
8 Strange Days,Bigelow,USA,1995
9 |
```

examples > MoviesExample > example.sysml

```
1 package TabularExample {
2     /* Example model that describes the information from a (specific) CSV. */
3
4     private import Tabular::tabular;
5
6     item def MyCSVMovie {
7         /* Those films that are in my CSV. */
8
9         metadata tabular {
10             uri = "file:./example.csv";
11             key = ("international title", "copyright year");
12         }
13     }
14 }
```

examples > MoviesExample > output > column_infos.txt

```
1  # TABLE
2
3  Located at: example.csv
4
5  ## Columns
6
7  The following columns have been described.
8
9  ### copyright year
10
11 Identifies 6 instances of:
12 | TabularExample::MyCSVMovie
13 together with: international title.
14
15 ### international title
16
17 Identifies 6 instances of:
18 | TabularExample::MyCSVMovie
19 together with: copyright year.
20
```

examples > MoviesExample > output > tables.txt

```
1 # Table example.csv
2
3 | international title | director | country | copyright year |
4 |-----|-----|-----|-----|
5 | ████████████████████ | ████████████████████ | ████████████████████ | ████████████████████ | MyCSVMovie
6
7
```

examples > MoviesExample > output > instance_subtables.txt

1 Instances of MyCSVMovie (from TabularExample::MyCSVMovie)

2		
3	international title	copyright year
4	---	---
5	str	str
6		
7	Solaris	1972
8	The Sacrifice	1986
9	Strange Days	1995
10	Stalker	1979
11	Solaris	2002
12	Jeanne Dielman, 23 quai du Com...	1975
13		

14

examples > MoviesExample > example.sysml

```
1 package TabularExample {
2     /* Example model that describes the information from a (specific) CSV. */
3
4     private import Tabular::tabular;
5
6     item def MyCSVMovie {
7         /* Those films that are in my CSV. */
8
9         metadata tabular {
10             uri = "file:./example.csv";
11             key = ("international title", "copyright year");
12         }
13     }
14 }
```

examples > MoviesExample > example.sysml

```
1  package TabularExample {
10     item def MyCSVMovie :> Movie {

13         metadata tabular {
14             uri = "file:./example.csv";
15             key = ("international title", "copyright year");
16         }

17
18         :>> director {
19             metadata tabular {
20                 key = "director";
21             }

22
23             :>> family_name {
24                 metadata tabular {
25                     key = "director";
26                 }
27             }
28         }

29
30         :>> country {
31             metadata tabular {
32                 key = "country";
33             }

34
35             :>> english_name {
36                 metadata tabular {
37                     key = "country";
38                 }
39             }
40         }
41     }
42 }
```

examples > MoviesExample > output > column_infos.txt

```
1  # TABLE
2
3  Located at: example.csv
4
5  ## Columns
6
7  The following columns have been described.
8
9  ### copyright year
10
11 Identifies 6 instances of:
12 | TabularExample::MyCSVMovie
13 together with: international title.
14 Identifies 6 values of:
15 | TabularExample::MyCSVMovie::copyright
16
17 ### country
18
19 Identifies 5 values of:
20 | TabularExample::MyCSVMovie::country
21
22 Identifies 5 values of:
23 | TabularExample::MyCSVMovie::country::english_name
24
25 ### director
26
27 Identifies 4 values of:
28 | TabularExample::MyCSVMovie::director
```



```
MyCSVMovie
  copyright: Anything
  country: Anything
    english_name: Anything
  director: Anything
    family_name: Anything
  international_title: Anything
```

examples > MoviesExample > output > instance_subtables.txt

```
21 | Akerman |
22 | Tarkovsky |
23 | Bigelow |
24 |
25 Instances of Anything (from TabularExample::MyCSVMovie::director::family_name)
26
27 | director |
28 | --- |
29 | str |
30 |=====|
31 | Tarkovsky |
32 | Akerman |
33 | Bigelow |
34 | Soderbergh |
35 |
36 Instances of Anything (from TabularExample::MyCSVMovie::country)
37
38 | country |
39 | --- |
40 | str |
41 |=====|
42 | USA |
43 | USSR |
44 | Belgium |
45 | France |
46 | Sweden |
47 |
48 Instances of Anything (from TabularExample::MyCSVMovie::country::english_name)
```

examples > MoviesExample > example.sysml

```
1 package TabularExample {
2     /* Example model that describes the information from a (specific) CSV. */
3
4     private import Tabular::tabular;
5
6     private import Ontological::ontoclass;
7     private import Ontological::ontorel;
8
9     item def Person {
10         /* The *general* collection of people. */
11
12         metadata ontoclass {
13             | uri = "https://schema.org/Person";
14         }
15
16         attribute family_name : String[*] {
17             | metadata ontorel {
18                 | uri = "https://schema.org/name";
19             }
20         }
21     }
22
23     item def Country {
24         /* The *general* collection of countries. */
25
26         metadata ontoclass {
27             | uri = "https://schema.org/Country";
28         }
29     }
30 }
```

examples > MoviesExample > example.sysml

```
1  package TabularExample {  
72  
73  
74  
75      item def MyCSVDirector.>.Person.{  
76          |    /* Those people that are in my CSV. */  
77          |  
78          |  
79      item def MyCSVCountry :> Country {  
80          |    /* Those countries taht are in my CSV. */  
81          |  
82          |  
83      item def MyCSVMovie :> Movie {  
84          |    /* Those films that are in my CSV. */  
85          |  
86          metadata tabular {  
87              |    uri = "file:./example.csv";  
88              |    key = ("international title", "copyright year");  
89          |  
90          |  
91          :>> director : MyCSVDirector {  
92              |    metadata tabular {  
93                  |    key = "director";  
94              |  
95              |  
96              :>> family_name {  
97                  |    metadata tabular {  
98                      |    key = "family_name";  
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```
1 @base <https://www.sensmetry.com/omg_semantic_challenge_2025/> .
2 @prefix schema: <https://schema.org/> .
3 @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
4
5 [] a schema:Country ;
6 |   schema:name "Belgium"^^xsd:string .
7
8 [] a schema:Movie ;
9 |   schema:copyrightYear "1979"^^xsd:string ;
10 |   schema:countryOfOrigin _:Nda569c62c02c41928ef4dd73e9cb2e84 ;
11 |   schema:director _:N4be8f8cf2a0749c4bc3a2e9c83eea2fb ;
12 |   schema:name "Stalker"^^xsd:string .
13
14 [] a schema:Movie ;
15 |   schema:copyrightYear "1972"^^xsd:string ;
16 |   schema:countryOfOrigin _:Nda569c62c02c41928ef4dd73e9cb2e84 ;
17 |   schema:director _:N4be8f8cf2a0749c4bc3a2e9c83eea2fb ;
18 |   schema:name "Solaris"^^xsd:string .
19
20 [] a schema:Movie ;
21 |   schema:copyrightYear "2002"^^xsd:string ;
22 |   schema:countryOfOrigin _:N9198c00da5134af284886284c8afc676 ;
23 |   schema:director [ a schema:Person ;
24 |   |   schema:name "Soderbergh"^^xsd:string ] ;
25 |   schema:name "Solaris"^^xsd:string .
26
```

```

1 package TabularExample {
72
73
74
75     item def MyCSVDirector.>.Person.{
76         | /* Those people that are in my CSV. */
77         | }
78
79     item def MyCSVCountry :> Country {
80         | /* Those countries taht are in my CSV. */
81         | }
82
83     item def MyCSVMovie :> Movie {
84         | /* Those films that are in my CSV. */
85
86         metadata tabular {
87             | uri = "file:./example.csv";
88             | key = ("international title", "copyright year");
89             | }
90
91         :>> director : MyCSVDirector {
92             | metadata tabular {
93                 | key = "director";
94                 | }
95
96             :>> family_name {
97                 | metadata tabular {
98                     | key = "family_name";
99                 | }
100             }
101         }
102     }
103 }

```

```
1 package TabularExample {
75
76
77     item def MyCSVDirector :> Person {
78         | /* Those people that are in my CSV. */
79     }
80
81     item def MyCSVCountry :> Country {
82         | /* Those countries taht are in my CSV. */
83     }
84
85     item def MyCSVMovie :> Movie {
86         | /* Those films that are in my CSV. */
87
88         metadata.atomic.{
89             .....uri_pattern="https://www.sensmetry.com/{copyright}/{international_title}";
90             .....}
91
92         metadata tabular {
93             | uri = "file:./example.csv";
94             | key = ("international title", "copyright year");
95         }
96
97         :>> director : MyCSVDirector {
98             | metadata tabular {
99                 | key = "director";
100             }
101         }
```

```
1 @base.<https://www.sensmetry.com/omg_semantic_challenge_2025/>..  
2 @prefix schema: <https://schema.org/> .  
3 @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .  
4  
5 <https://www.sensmetry.com/1972/Solaris> a schema:Movie ;  
6 | schema:copyrightYear "1972"^^xsd:string ;  
7 | schema:countryOfOrigin _:N0c12c966ef7b47339aea259d728fbc3b ;  
8 | schema:director _:N5ef5797ebf12415daba08920fc68a8a3 ;  
9 | schema:name "Solaris"^^xsd:string .  
10  
11 <https://www.sensmetry.com/1975/Jeanne+Dielman%2C+23+quai+du+Commerce%2C+1080+Bruxelles> a schema:Movie ;  
12 | schema:copyrightYear "1975"^^xsd:string ;  
13 | schema:director [ a schema:Person ;  
14 | | schema:name "Akerman"^^xsd:string ] ;  
15 | schema:name "Jeanne Dielman, 23 quai du Commerce, 1080 Bruxelles"^^xsd:string .  
16  
17 <https://www.sensmetry.com/1979/Stalker> a schema:Movie ;  
18 | schema:copyrightYear "1979"^^xsd:string ;  
19 | schema:countryOfOrigin _:N0c12c966ef7b47339aea259d728fbc3b ;  
20 | schema:director _:N5ef5797ebf12415daba08920fc68a8a3 ;  
21 | schema:name "Stalker"^^xsd:string .  
22  
23 <https://www.sensmetry.com/1986/The+Sacrifice> a schema:Movie ;  
24 | schema:copyrightYear "1986"^^xsd:string ;  
25 | schema:countryOfOrigin [ a schema:Country ;  
26 | | schema:name "Sweden"^^xsd:string ] ;
```