SportsDB29 Base Relations Doc

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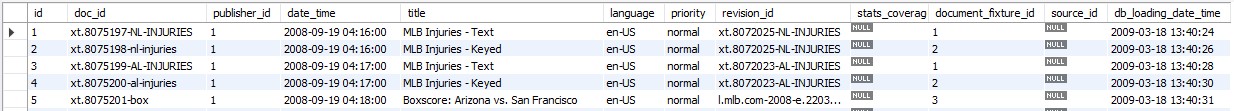
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# Document Relations



## documents

id: Auto-generated ID used as FK by other relations

doc\_id: ID generated by publisher- not referenced by any other relation

publisher\_id: FK to **publishers**(id)

date\_time: Date of publishing

title: Title of the document

language: Language of the document in BCP 47 format. For example: en-US, en-ZA

priority: (?)

revision\_id: Different rows in the **documents** relation can represent the same document at differing stages of completion, they will all have the same revision\_id

stats\_coverage: (?)

document\_fixture\_id: FK to **document\_fixtures**(id). Publishers can have document fixtures that basically represent common types of documents that they publish. For example: a document\_fixture\_id of 1 represents the type *injuries*, and implies that the document concerns injuries in some way.

source\_id: FK to the **publishers**(id)

db\_loading\_date\_time: Timestamp of row insertion.

## latest\_revisions

id: Auto-generated ID

revision\_id: Stores the revision\_id of **documents**

latest\_document\_id: FK that references the latest iteration of a certain group of documents represented by the revision\_id

Graphical user interface, application

Description automatically generated

## document\_contents

id: Auto-generated ID

document\_id: FK to **documents**(id)

sportsml: Link to namespace of the sportsML document

sportsml\_blob: Blob of sportsML document that stores the data

abstract: Link to namespace of the abstract (?)

abstract\_blob: Blob of document abstract

Graphical user interface, text, application

Description automatically generated

## document\_fixtures

id: Auto-generated id used as FK by other relations

fixture\_key: Consistent key for the type of regularly published document

publisher\_id: FK of **publishers**(id) of publisher that uses the fixture

name: Displayable name for the fuxture type

document\_class\_id: FK to **document\_classes**(id)

**Graphical user interface, text, application

Description automatically generated**

## document\_classes:

id: Auto-generated ID used as FK by other relations

name: General class (or category) of a document

## teams\_documents

Represents binary relationships between teams and documents

## persons\_documents

Represents binary relationships between persons and documents

## affiliations\_documents

Represents binary relationships between affiliations and documents

## events\_documents

Represents binary relationships between events and documents

## db\_info

version: sportsDB or sportsML version(?)

# Person Relations

Table

Description automatically generated

## persons

id: Auto-generated ID used as FK by other relations

person\_key: Unique key of the person

publisher\_id: FK to **publishers**(id) of the publisher responsible for this entity’s data

gender: Male/female/mixed

birth\_date: YYYY-MM-DD

death\_date: YYYY-MM-DD

final\_resting\_location\_id: FK to **locations**(id)

birth\_location\_id: FK to **locations**(id)

hometown\_location\_id: FK to **locations**

residence\_location\_id: FK to **locations**

death\_location\_id: FK to **locations**

**Table

Description automatically generated**

## person\_phases

id: Auto-generated ID

person\_id: FK to **persons**(id)

membership\_type: String that defines type of membership that distinguishes this phase. (**teams**/**affiliations**)

membership\_id: References **affiliations**(id) *or* **teams**(id)

role\_id: FK to **roles**(id)

role\_status: Person’s status in their role.[[1]](#footnote-1)

phase\_status: Person’s status during the phase overall[[2]](#footnote-2).

uniform\_number: Uniform number of the person with regards to organisation referred to by *membership\_id* throughout the phase

regular\_position\_id: FK to **positions**(id) of position in which the person typically plays in the organisation referred to by *membership\_id* throughout the phase

regular\_position\_depth: The ranking of the person amongst all people in the organisation referred to by *membership\_id* who play the same position during the phase.

height: Height during the phase in cm

weight: Weight during the phase in cm

start\_date\_time: Date and time at which the phase started in YYYY-MM-DD

start\_season\_id: FK to **seasons**(id) of the season in which the phase started

end\_date\_time: Date and time at which the phase ended in YYYY-MM-DD

end\_season\_id: FK to **seasons**(id) of the season in which the phase ended

entry\_reason: Reason why the person entered the phase

exit\_reason: Reason why the person exited the phase

selection\_level: The level within which the player was selected to enter this phase. For example, 1, if drafted in 1st round

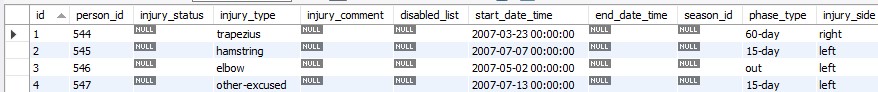
selection\_sublevel: The sublevel of the selection-level. For example, 27, if picked as 27th selection in 1st round

selection\_overall: The total ranking amongst all levels in a draft

duration: Rough estimate of phase duration if either *start\_date\_time* or *end\_date\_time* are unknown

phase\_type: Level of play during phase[[3]](#footnote-3)

subphase\_type: Subdivisions of phase types. For example, weight class in boxing or age divisions such as U18



## injury\_phases

id: Auto-generated ID

person\_id: FK to **persons**(id)

injury\_status: Active/Inactive (?)

injury\_type: What was injured? Knee, back, fingers, hamstring?

injury\_comment: Description of injury phase

disabled\_list: (?)

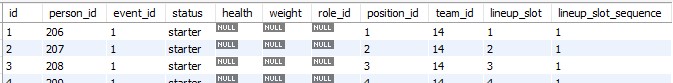
start\_date\_time: YYYY-MM-DD

end\_date\_time: YYYY-MM-DD

season\_id: FK to **seasons**(id) of the season in which the injury occurred

phase\_type: Unofficial report, or formalised disabled list[[4]](#footnote-4)

injury\_side: Left/right/both



## person\_event\_metadata

id: Auto-generated ID

person\_id: FK to **persons**(id)

event\_id: FK to **events**(id)

status: Whether a person starts playing at the start of the event, joins mid-game, or doesn’t play at all[[5]](#footnote-5)

health: Health of person. Injured/fine

weight: Weight of person during event

role\_id: FK to **roles**(id)

position\_id: FK to **positions**(id) of position the person plays during event

team\_id: FK to **teams**(id) of team the person plays for during the event

lineup\_slot: Order in which the person participated in the event

lineup\_slot\_sequence: The order in which people filled the lineup slot if it were substituted for some reason. Defaults to 1. The first substitute will be 2, second will be 3 etc.

## roles

id: Auto-generated ID used as FK by other relations

role\_key: Unique key for the role

role\_name: Name of role. Manager/player/coach (?)

comment: Description of role

Table

Description automatically generated

## positions

id: Auto-generated ID used as FK by other relations

affiliation\_id: FK to **affiliations**(id) of affiliation to which the position belongs

abbreviation: Abbreviation of the position, usually unique to specific affiliations

# Utility Relations

## publishers

id: Auto-generated ID used as FK by other relations

publisher\_key: Unique key of the publisher

publisher\_name: Name of the publisher

## display\_names

id: Auto generated ID

language: Language code in which to display the name

entity\_type: Type of entity to which the name belongs. persons/teams/affiliations

entity\_id: References the id attribute in the relation of whichever entity type the name belongs to

full\_name: Full name of entity

first\_name: First name of entity, if applicable

middle\_name: Middle name of entity, if applicable

last\_name: Last name of entity, if applicable

alias: A different name by which the entity can be referred to

abbreviation: Abbreviation of the name. For example, MLB

short\_name: (?)

prefix: An additional part at the beginning of the name. For example, titles such as Mr. or Ms.

suffix: An additional part at the end of the name. For example, Jr.

*Annotation: The* ***persons****,* ***teams****,* ***affiliations*** *relations can each store multiple entities that refer to the same real world entity; each containing differing data depending on which publisher was responsible for sourcing said data, i.e. multiple* ***persons*** *entities may refer to the same person.*

*The* ***key\_roots*** *relation contains entities that are used as a “base” entity which uniquely refers to a real world entity and the* ***key\_aliases*** *relation**represents the relationships between variations in the* ***persons****,* ***teams****, and* ***affiliations*** *relations and their base entity in* ***key\_roots****.*

## key\_roots

id: Auto-generated ID used as FK by **key\_aliases**(key\_root\_id)

key\_type: Relation in which this entity’s variations are contained (**persons**/**teams**/**affiliations**)

## key\_aliases

id: Auto-generated ID

key\_id: FK to a variation of the base entity that is referenced by *key\_root\_id*

key\_root\_id: FK to **key\_roots**(id) of the base entity which contains the name of the relation in which this variation is contained

## sports\_property (?)

id: Auto-generated ID

sports\_property\_type:

sports\_property\_id:

formal\_name:

value:

# Location Relations

## locations

id: Auto-generated ID referenced by other relations

city: The city of the location

state: The state/province of the location

area: Area name of the location

country: Name of the country

timezone: Name of the location’s time zone

latitude: Location’s latitude

longitude: Location’s longitude

country\_code: Two letter ISO code of the country. For example, za/us/gb

## sites

id: Auto-generated ID referenced by other relations

site\_key: Unique key of the site

publisher\_id: FK to **publishers**(id).

location\_id: FK to **locations**(id) of the site’s location

## addresses

id: Auto-generated ID

location\_id: FK to **locations**(id)

language: Language in which to display address information

suite: Suite of the address

floor: Floor number of the address

building: Building number of the address

street\_number: Number of the street

street\_prefix: Prefix of the street. For example, rue, calle de, etc.

street\_suffix: Suffix of the street. For example, street, avenue, boulevard

neighborhood: neighborhood of the address

district: The district

locality: The locality

county: The county

region: The region

postal\_code: The postal code

country: Two letter ISO country code

# Organization Relations

Table

Description automatically generated

## teams

id: Auto-generated ID referenced other relations

team\_key: Unique key of team

publisher\_id: FK to **publishers**(id) of entity responsible for this entity’s data

home\_site\_id: FK to **sites**(id) of the entity representing the team’s home site

Graphical user interface, application

Description automatically generated

## affiliations

id: Auto-generated ID referenced other relations

affiliation\_key: Unique key of team

affilitaion\_type: Type of affiliation

publisher\_id: FK to **publishers**(id) of entity responsible for this entity’s data

Table

Description automatically generated

## team\_phases

id: Auto-generated ID

team\_id: FK to **teams**(id)

start\_season\_id: FK to **seasons**(id)

end\_season\_id: FK to **seasons**(id)

affiliation\_id: FK to **affiliations**(id) of affiliation entity that the team is a member of (?)

start\_date\_time:

end\_date\_time:

phase\_status: Active/inactive(?)[[6]](#footnote-6)

role\_id: FK to **roles**(id) (?)

Table

Description automatically generated

## affiliation\_phases

id: Auto-generated ID

affiliation\_id: FK to **affiliations**(id)

root\_id: Seems to be FK to the base entity stored in **key\_roots**, but it is not labeled as such on the sportsDB diagram

ancestor\_affiliation\_id: FK to **affiliations**(id) (?)

start\_season\_id: FK to **seasons**(id)

start\_date\_time:

end\_season\_id: FK to **seasons**(id)

end\_date\_time:

## rankings

id: Auto-generated ID

document\_fixture\_id: Not labeled as FK on sportsDB diagram

participant\_type: Team/affiliation/person

participant\_id: FK to entity in whichever relation is specified above

issuer: entity/organisation that issued the rank

ranking\_type: Type of rank. Generally publisher-specific vocabulary[[7]](#footnote-7)

ranking\_value: Current rank

ranking\_value\_previous: previous rank

date\_coverage\_type: Time period that the statistics describe[[8]](#footnote-8)

date\_coverage\_id: FK to entity in the relation mentioned above

# Stats Relations

*Table

Description automatically generated*

## stats

*Annotation: The* ***stats*** *relation represents a ternary relationship between the relevant stat type (****penalty\_stats****/****core\_stats****), the period during which the stats were recorded (****seasons****/****events****), and the entity (****persons****,* ***teams****, etc.) that the stats belong to.*

id: Auto-generated ID

stat\_repository\_type: **core\_stats**/**penalty\_stats**/new golf-related relation

stat\_repository\_id: Reference to entity in above-mentioned relation that contains the relevant stats

stat\_holder\_type: **persons**, **teams**, etc.

stat\_holder\_id: Reference to entity in above-mentioned relation to which the stats belong

stat\_coverage\_type: Same as **rankings**(date\_coverage\_type)

stat\_coverage\_id: Same as **rankings**(date\_coverage\_id)

stat\_membership\_type: Type of entity that the holder is a member of during the period when the stats are recorded

stat\_membership\_id: Reference to entity in the table mentioned above

context: (?)

scope: Scope within which stats are recorded during the period described by the date\_coverage\_type attribute(?)[[9]](#footnote-9)

## penalty\_stats

id: Auto-generated ID referenced by **stats**(stat\_repository\_id)

count: Number of this type of penalties given to person/team referenced by the relationship

type: Type of penalty. For example, red card, offside, etc.

value: Amount of score/time penalised for the given penalty type

## core\_stats

id: Auto-generated ID

score: Final or current score of the person/team entity referenced by the relationship

score\_opposing: Final or current score of the entity’s opponents during the coverage period

score\_attempts: Final or current number of attempts to score

score\_attemps\_opposing: Final or current number of attempts to score by opponents

score\_percentage: Percentage of successful score attempts

score\_percentage\_opposing: Percentage of successful score attempts of opponent

time\_played\_event: Amount of time played by the entity during a particular sports-event

time\_played\_total: Amount of time played by entity over the course of a particular timespan, such as a season

events\_played: Number of sports-events the entity participated in

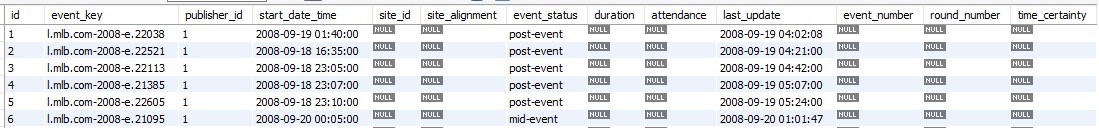
events\_started: Number of sports-events the entity has participated in since the commencement of the event

position\_id: Applicable to **persons** entities. Indicates that statistics only apply to events where the person played a specific position

series\_score: Number of events in a series won by team or person

series\_score\_opposing: Number of events in series won by opposing team or person

# Event Relations



## events

*Annotation: An event is a single match*

id: Auto-generated ID used as FK by other relations

event\_key: Unique key of the event

publisher\_id: FK to **publishers**(id) of publisher entity that sourced the data

start\_date\_time:

end\_date\_time:

site\_id: FK to **sites**(id); references site where event is held

site\_alignment: Home team’s site, or a neutral site[[10]](#footnote-10)

event\_status: post-event, mid-event, postponed, etc[[11]](#footnote-11)

duration: Length of time the event took place

attendance: Number of spectators in attendance

last\_update: The date\_time of the most recent document used to update event data

event\_number: The ranked position this event has amongst other events[[12]](#footnote-12)

round-number: (?)[[13]](#footnote-13)

time\_certainty: Describes certainty of date\_time attributes[[14]](#footnote-14)

broadcast\_listing: (?)

start\_date\_time\_local: start\_date\_time converted to local time of the site(?)

medal\_event: (?)

series\_index: The tournament division or series to which an event belongs

Graphical user interface, text, application

Description automatically generated

## document\_fixtures\_events

*Annotation: Binary relationship between* ***events*** *entities and the* ***documents*** *entities that update their data*

id: Auto-generated ID

document\_fixture\_id: The document\_fixture\_id of document entity in the relationship

event\_id: FK to **events**(id)

latest\_document\_id: FK to documents(id); references the latest revision of the document- updates when new revisions of the document are inserted.

last\_update: Date\_time of when the latest\_document\_id attribute was last updated.

Table

Description automatically generated

## participants\_events

*Annotation: Binary relationship between (****teams****/****persons****) entities and* ***events*** *entities*

id: Auto-generated ID used as FK by **periods**

participant\_type: Persons/teams

participant\_id: References entity in above-mentioned relation

event\_id: FK to **events**(id); references event the above-mentioned entity is participating in

alignment: Is the entity playing a home or away game[[15]](#footnote-15)

score: Final or current score of the participant

event\_outcome: Win/loss/tie/undecided

rank: Final or current rank of the participant with respect to the event (?)

result\_effect: Effect that the result or rank change has had on the team[[16]](#footnote-16)

score\_attempts: Final or current number of attempts to score by the participant

sort\_order: Whether scores are sorted in ascending/descending order to determine winner(?)

score\_type: “Qualifies ‘score’ attribute” (?)[[17]](#footnote-17)

Table

Description automatically generated

## periods

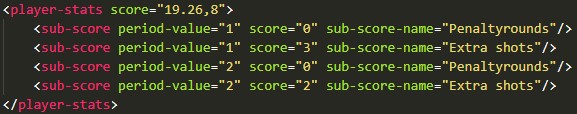
id: Auto-generated ID

participant\_event\_id: FK to **participants\_events**(id)

period\_value: first half, period-1, inning-2, quarter-3; nthperiod of the event. Used to track stats and events by period

score: Score of the participant for that period

score\_attempts: Number of attempts made during the period by the participant

rank: Rank of the participant during the period

sub\_score\_key: Unique key for the sub-score[[18]](#footnote-18)

sub\_score\_type: Type of sub-score(?)

sub\_score and sub\_score\_name example from a biathlon xml document

sub\_score\_name: Name of the sub-score unit

## sub\_periods

id: Auto-generated ID

period\_id: FK to **periods**(id)

sub\_period\_value: nth sub-period

score: Participant score during the sub-period

score\_attempts: Number of attempts made during the sub-period by the participant

## affiliations\_events

*Annotation: Binary relationship between events and the affiliations that they are a part of*

affiliation\_id: FK to **affiliations**(id)

event\_id: FK to **events**(id)

Table

Description automatically generated

## seasons

id: Auto-generated ID used as FK by other relations

season\_key: Unique key of the season

publisher\_id: FK to **publishers**(id); references publisher entity that sourced the data

league\_id: FK to **affiliations**(id); references affiliation that hosts/organises events during the season(?)

start\_date\_time:

end\_date\_time:



## sub\_seasons

id: Auto-generated ID

sub\_season\_key: Unique key of the sub season

season\_id: FK to **seasons**(id)

sub\_season\_type: Which period during the season[[19]](#footnote-19)

start\_date\_time:

end\_date\_time:

## events\_sub\_seasons

event\_id: FK to **events**(id)

sub\_season\_id: FK to **sub\_seasons**(id)

## weather\_conditions

id: Auto-generated ID

event\_id: FK to **events**(id)

temperature: Temperature

temperature\_units: Units

humidity: Humidity

clouds: Clear/cloudy/overcast (?)

wind\_direction:

wind\_velocity:

weather\_code: Controlled-vocabulary description of the weather[[20]](#footnote-20) [[21]](#footnote-21)

## awards

id: Auto-generated ID

participant\_type: **persons/teams**

participant\_id: FK to above-mentioned relation

award\_type: medal/trophy[[22]](#footnote-22)

name: Displayable awards name. For example, Champion, MVP

total: Total number of these awards given to the participant

rank: The place for which the prize is offered. For example first place(?)[[23]](#footnote-23)

award\_value: Money earned by the winner of the award[[24]](#footnote-24)

currency: Unit of currency for the award value

date\_coverage\_type: Time period during which play occurred[[25]](#footnote-25)

date\_coverage\_id: FK to entity in the relation mentioned above

## records

id: Auto-generated ID

participant\_type: **persons/teams**

participant\_id: FK to above-mentioned relation

record\_type: high/low[[26]](#footnote-26)

record\_label: textual description of the record type

record\_value: Score value of the record

previous\_value: Score value of the previous record

date\_coverage\_type: Same as above **awards**(date\_coverage\_type)

date\_coverage\_id: Same as above **awards**(date\_coverage\_id)

comment: Description of the record

1. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#status.Core.Vocabulary> [↑](#footnote-ref-1)
2. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#phaseStatus.Core.Vocabulary> [↑](#footnote-ref-2)
3. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#phaseType.Core.Vocabulary> [↑](#footnote-ref-3)
4. The samples I used seem to have further distinguished between unofficial reports based on likelihood, and between official reports based on expected recovery time [↑](#footnote-ref-4)
5. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#status.Core.Vocabulary> [↑](#footnote-ref-5)
6. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#phaseStatus.Core.Vocabulary> [↑](#footnote-ref-6)
7. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#rank_type> [↑](#footnote-ref-7)
8. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#dateCoverageType.Core.Vocabulary> [↑](#footnote-ref-8)
9. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#competitionScope.Core.Vocabulary> [↑](#footnote-ref-9)
10. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#coverageAttributes_alignment-scope> [↑](#footnote-ref-10)
11. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#eventStatus.Core.Vocabulary> [↑](#footnote-ref-11)
12. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#event-metadata_event-number> [↑](#footnote-ref-12)
13. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#tournament-round-metadata_round-number> [↑](#footnote-ref-13)
14. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#event-metadata_time-certainty> [↑](#footnote-ref-14)
15. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#site-stats_alignment> [↑](#footnote-ref-15)
16. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#resultEffect.Core.Vocabulary> [↑](#footnote-ref-16)
17. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#statAttributes_score-type> [↑](#footnote-ref-17)
18. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#sub-score> [↑](#footnote-ref-18)
19. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#seasonType.Core.Vocabulary> [↑](#footnote-ref-19)
20. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#site-stats_weather-code> [↑](#footnote-ref-20)
21. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#weatherPrediction.Core.Vocabulary> [↑](#footnote-ref-21)
22. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#awardType.Core.Vocabulary> [↑](#footnote-ref-22)
23. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#award_place> [↑](#footnote-ref-23)
24. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#award_value> [↑](#footnote-ref-24)
25. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-vocabulary-core_xsd.html#dateCoverageType.Core.Vocabulary> [↑](#footnote-ref-25)
26. <http://www.iptc.org/std/SportsML/2.2/documentation/SportsML-G2/sportsml-core_xsd.html#coverageAttributes_scoping-label> [↑](#footnote-ref-26)