



# Data Types and Relations in mDIS

**IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System**  
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-  
Mission 4 “Education and Research” - Component 2: “From research to business” - Investment  
3.1: “Fund for the realisation of an integrated system of research and innovation infrastructures”



# Data Types in mDIS



Data Type	Definition	Example
integer	1, -1, 2, ...	core number
double	1.5, -5.83	lat/long coordinates
boolean	1/0, yes/no	core catcher information
string	text, textarea or single select list	-> text, textarea or single select list
dateTime	YYYY-MM-DD hh:mm	Core on Deck
date	YYYY-MM-DD	Expedition Start Date
time	hh:mm	Time Drilling Started (drillers log)
text	textarea	Additional Information
pseudo	calculated, when a record is opened. Not stored in database	Depth
string (multiple)	multiple select list	Lithology

Core Catcher

yes

yes

no

Boolean

Additional Information

Sample will be ground. Left overs may be available.

Textarea

Change size by dragging

\*Sample Material

Rock

Fossil

Rock

Bulk Rock

Sediment

Single select list

\*Lithology

sandstone

conglomerate

pure carbonate mudstone

cataclasite series

chalk

conglomerate

mudstone

sandstone

Multiple select list

MCD Bottom Depth [m] (IODP: CCSF)

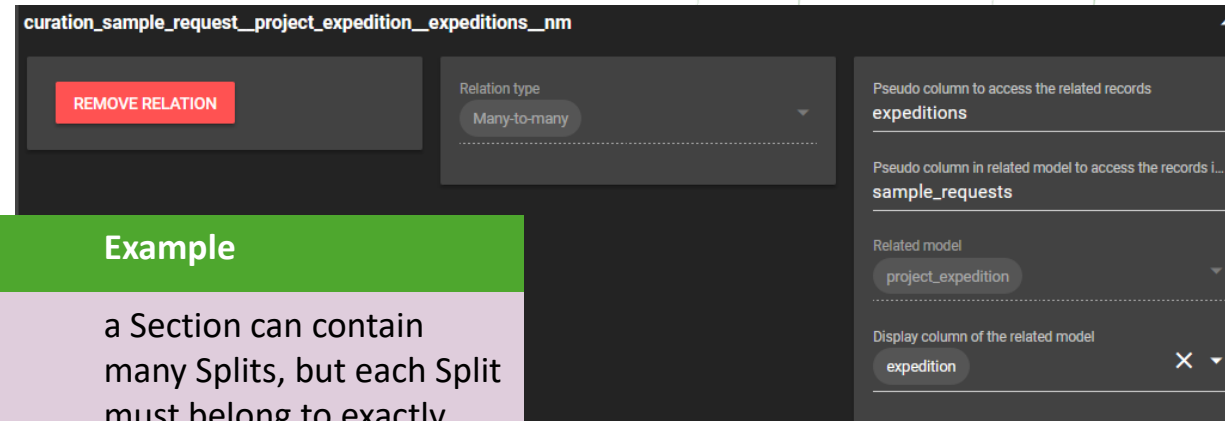
1.11

Additional Information

Pseudo field

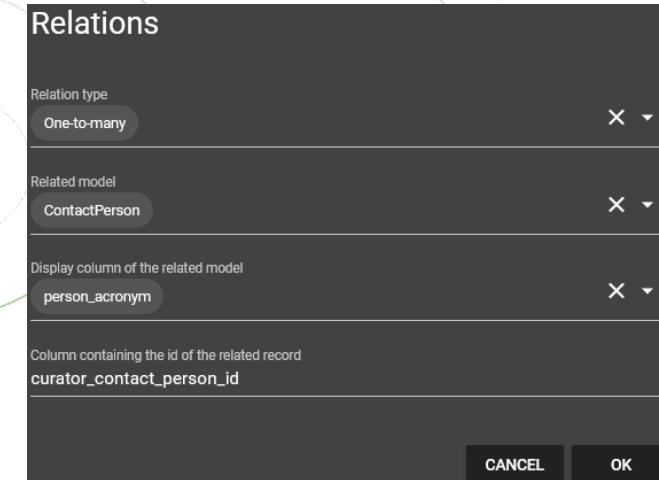
basic text field

# Relations in mDIS

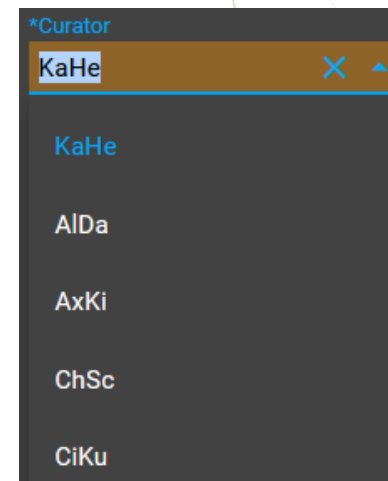


Relation type	Definition	Example
parent relations	special 1:n relation, hierarchy	a Section can contain many Splits, but each Split must belong to exactly one Section.
1:n relations	a record can be assigned exactly to 1 record of a different table	there are many curators in the database, but only one curator can enter a specific record (e.g. a new core)
n:m relations	multiple records of table A can be assigned to one record of table B, and multiple records of table B can be assigned to one record of table A	one expedition contains several sample requests, but one sample request can belong to several expeditions

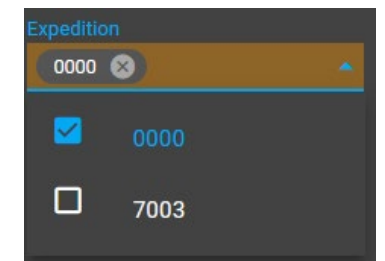
n:m relation in Template Manager



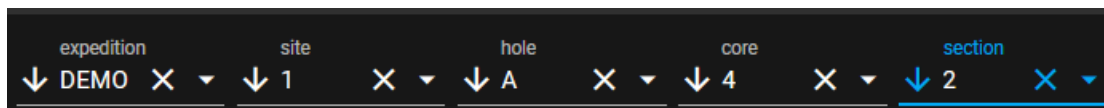
1:n relation in Template Manager



1:n relation field

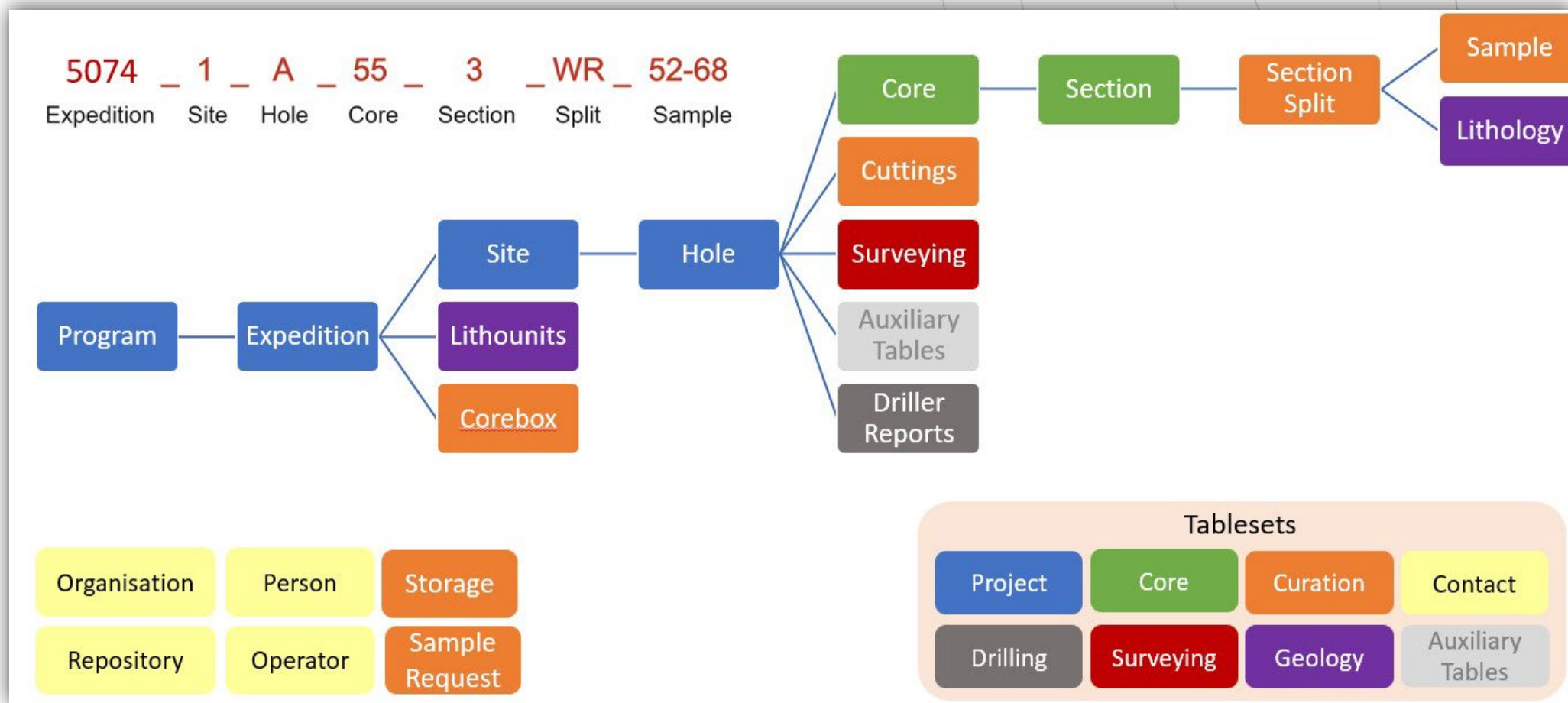


n:m relation field



parent relations visible in filter bar

# Relations in mDIS





# THANKS!

**IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System**  
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-  
Mission 4 “Education and Research” - Component 2: “From research to business” - Investment  
3.1: “Fund for the realisation of an integrated system of research and innovation infrastructures”

