

## Questions for excavation datasets at the A+ portal.

Working document: Draft version 0.6 [24/11/2022]

Suggested question format: **Q:** (*Question in simple writing*), **R:** (*Expected result*), **S:** (*Possible syntax involved*), **C:** (*Contributor/s*)

### QUESTIONS

#### Q1

Q: *"I want to find paleolithic blades"*

R: Either the collections containing "paleolithic blades" or the actual items in a list.

S: E27\_Site → AP21\_contains → E18\_Physical\_Thing →

- P2\_has\_type → E55\_Type
- P92\_was\_brought\_into\_existence → E63\_Beginning\_of\_Existence → P10\_falls\_within → E4\_Period
- P45\_consists\_of → E57\_Material (possibly also needed?)

C: Markos Katsianis

#### Q2

Q: *"I want to find neolithic postholes"*

R: Either the collections containing "neolithic postholes" or the actual items in a list.

S: E27\_Site → AP21\_contains → E25\_Human\_Made\_Feature/E18\_Physical\_Thing

- P2\_has\_type → E55\_Type
- P92\_was\_brought\_into\_existence → E63\_Beginning\_of\_Existence → P10\_falls\_within → E4\_Period

C: Markos Katsianis

#### Q3

Q: *"I want to find excavation contexts with loamy sand texture"*

R: The excavations containing those periods or a list of contexts.

S: E27\_Site → AP21\_contains → A8\_Stratigraphic\_Unit → AP15\_contains\_remains\_of → S10\_Material\_Substantial → P2\_has\_type → E55\_Type

Or

S: E27\_Site → AP21\_contains → A8\_Stratigraphic\_Unit → P43\_has\_dimension → E54\_Dimension → (P2\_has\_type → E55\_Type [*loamy sand texture*] → P2\_has\_type → E55\_Type [*texture*]) → P90\_has\_value → rdf:literal

C: Markos Katsianis

#### Q4

Q: *"I want to find gallo-roman ceramic"*

R: Either the collections containing "gallo-roman ceramic" or the actual items in a list.

S: E27\_Site → AP21 contains → E22\_Human-Made\_Object

- P2\_has\_type → E55\_Type
- P92\_was\_brought\_into\_existence → E63\_Beginning\_of\_Existence → P10\_falls\_within → E4\_Period

C: Florian Hivert

#### Q5

Q: *"I want to find objects discovered during the 1986 excavation "*

R: All the actual items found during a specific excavation at a specific time.

S: E27\_Site → P8i\_witnessed → S19\_Encounter\_Event → O19\_has\_found\_object → E22\_Human-Made\_Object

- P8i\_witnessed → S19\_Encounter\_Event → P4\_has\_time-span → E52\_Time-Span → P82a\_begin\_of\_the\_begin → "1986-01-01T00:00:00"/P82b\_end\_of\_the\_end → "1986-12-31T23:59:58"

C: Florian Hivert

#### Q6

Q: *"I want to find objects discovered during the YYYY excavation "*

R: All the actual items found during a specific excavation.

S: E27\_Site → P8i\_witnessed → S19\_Encounter\_Event → O19 has found object → E22\_Man-Made\_Object

- P8i\_witnessed → S19\_Encounter\_Event → P4\_has\_time-span → E52\_Time-Span

C: Florian Hivert

#### Q7

Q: *"I want to find objects found during an excavation lead by X"*

R: All the actual items found during a specific excavation lead by a particular person

S: E27\_Site → P8i\_witnessed → S19\_Encounter\_Event → O19\_has\_found\_object → E22\_Human-Made\_Object

- P8i\_witnessed → S19\_Encounter\_Event → P14\_carried\_out\_by → E21\_Person

C: Florian Hivert

#### Q8

Q: *"I want to find the site located at a place"*

R: All the sites localized at the same place

S: E27\_Site → P55\_has\_current\_location → E53\_Place

C: Florian Hivert

#### Q9

Q: *"I want to find animal bones of the genus capra in excavations dating to the Early Neolithic"*

R: All the biological object typed as animal bones which formed part of an individual from the capra genus found in excavations where the site was dated from Early Neolithic

S: E20\_Biological\_Object

- P2\_has\_type → E55\_Type "Animal bones"
- P46i\_forms\_part\_of → E20\_Biological\_Object → P2\_has\_type → E55\_Type "Capra"
- O19i\_was\_object\_found → S19\_Encounter\_Event → P8\_took\_place\_on\_or\_within → E27\_Site → P8i\_witnessed → E4\_Period "Early Neolithic"

C: Florian Hivert

**Q10**

Q: *"I want to find excavations that have recovered parts of roman roads"*

R: All the excavations where a physical object from a roman roads has been found

S: S19\_Encounter\_Event → O19\_has\_found\_object → E22\_Human-Made\_Object → P46i\_forms\_part\_of → E25\_Human-Made\_Feature → P101\_had\_as\_general\_use → E55\_Type "roman roads"

C: Florian Hivert

**Q11**

Q: *"I want to find burials of classical period"*

R: All the burials from classical period

S: E25\_Human-Made\_Feature → P2\_has\_type → E55\_Type (Burial)

- P8i\_witnessed → E4\_Period "Classical period"

C: Florian Hivert

**Q12**

Q: *"I want to find floors with mosaics"*

R: all the floors which are made of mosaics

S: E25\_Human-Made\_Feature → P46i\_is\_composed\_of → E22\_Man-Made\_Object → P2\_has\_type → E55\_Type "Mosaic"

- P2\_has\_type/P101\_had\_as\_general\_use "Floor"

C: Florian Hivert

**Q13**

Q: *"I want to find all stratigraphic units from site X belonging to the Early Iron Age"*

R: all the stratigraphic units from a site which was excavated and which was occupied during the Early Iron Age period

S: A2\_Stratigraphic\_Volume\_Unit → O19i\_was\_object\_found → S19\_Encounter\_Event → P8\_took\_place\_on\_or\_within → E27\_Site → P8i\_witnessed → E4\_Period "Early Iron Age"

C: Florian Hivert

**Q14**

Q: *"I want to find excavation pictures taken in 1964"*

R: all the documents typed as a picture created in 1964 which document an excavation

S: E31\_Document → P70\_documents → S19\_Encounter\_Event

- P94i\_was\_created\_by → E65\_Creation → P4\_has\_time-span → P82a\_begin\_of\_the\_begin → "1964-01-01T00:00:00"/P82b\_end\_of\_the\_end → "1964-12-31T23:59:58"

C: Florian Hivert

**Q15**

Q: *"I want to retrieve excavation items that have a measured value of magnetic susceptibility greater than 50"*

R: All the possible items found during an excavation where a measurement of magnetic susceptibility has been made and the result was greater than 50.

S: E1\_CRM\_Entity → O19i\_was\_object\_found\_by → S19\_Encounter\_Event

- → P39i\_was\_measured\_by → E16\_Measurement → P40\_observed\_dimension → E54\_Dimension "> 50"
- E54\_Dimension → P2\_has\_type → E55\_Type "Magnetic susceptibility"

C: Florian Hivert

#### Q16

Q: *"I want to retrieve all trenches with postholes in excavation X"*

R: All the features typed as trenches which contains postholes encountered during an excavation

S: E25\_Human-Made\_Feature

- → p46i\_forms\_part\_of → E27-Site "X"
- → P2\_has\_type "Postholes"
- → P53\_has\_former\_or\_current\_location->E53\_Place->P2\_has\_type → E55\_Type "Trench"
- → O19i\_was\_object\_found\_by → S19\_Encounter\_Event

C: Florian Hivert & Markos Katsianis

#### Q17

Q: *"I want to retrieve excavations that have identified legumes seeds in their samples (flotation residue sample)"*

R: All the excavations which took samples which contained legumes seeds from their sites

S: S19\_Encounter\_Event → P8\_took\_place\_on\_or\_within → E27\_Site → O3i\_was\_sampled\_by →

S2\_Sample\_Taking → O5\_removed → S13\_Sample → P2\_has\_type → E55\_Type "Flotation residue sample"

- S13\_Sample → O10\_contains → E20\_Biological\_Object → P2\_has\_type → E55\_Type "Legumes seeds"

C: Florian Hivert

#### Q18

Q: *"I want to retrieve excavation events that happened in May 2000" or "I want to see in which locations there were active excavations in May 2000"*

R: All the excavation which took place between the 1st May 2000 and the 31 May 2000

S: S19\_Encounter\_Event → P4\_has\_time-span → E52\_Time-Span → P82a\_begin\_of\_the\_begin → "2000-05-01T00:00:00"/P82b\_end\_of\_the\_end → "2000-05-31T23:59:59"

C: Florian Hivert

#### Q19

Q: *"I want to find excavations containing radiocarbon samples"*

R: All the excavation where a sample was taken to make radiocarbon measurement

S: S19\_Encounter\_Event → P8\_took\_place\_on\_or\_within → E27\_Site → O3i\_was\_sampled\_by →

S3\_Measurement\_by\_Sampling → P2\_has\_type → E55\_Type "Radiocarbon measurement"

- S3\_Measurement\_by\_sampling → O5\_removed → S13\_Sample

C: Florian Hivert