

The following queries had been done with the first version of the PCP model. See Ontology.

- Q1: At which faculty did professors have their very first chair and to which faculty did they move to throughout their career?
- At which faculty did professors work at the time of their death?

```
select distinct ?professor (SAMPLE(?professorLabel) as
?professorName) ?period (SAMPLE(?position) as ?positionName)
(SAMPLE(?subjectsTaught) as ?subjectsTaughtName) (SAMPLE(?faculty) as
?facultyName) (SAMPLE(?academy) as ?academyName) (min(?from) as
?startingYear) ?to where { ?professor
<http://purl.org/pcp-on-web/ontology#hasPeriod> ?period. ?professor
<http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel. ?period
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?periodType. ?period
<http://purl.org/pcp-on-web/ontology#periodBody> ?facultyPeriodBody.
?facultyPeriodBody <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://purl.org/pcp-on-web/ontology#Faculty>. optional { ?period
<http://purl.org/pcp-on-web/ontology#from> ?from. } optional { ?period
<http://purl.org/pcp-on-web/ontology#to> ?to. } optional { ?facultyPeriodBody
<http://www.w3.org/2000/01/rdf-schema#label> ?faculty . } { ?period
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://purl.org/pcp-on-web/ontology#Career>. optional ?periodBody
<http://purl.org/pcp-on-web/ontology#isPartOf> ?isPartOf. ?isPartOf
<http://www.w3.org/2000/01/rdf-schema#label> ?academy. } optional {
?period <http://www.w3.org/2000/01/rdf-schema#label> ?positon. } optional {
?period <http://purl.org/pcp-on-web/ontology#subjectsTaught>
?subjectsTaught. } } UNION { ?period
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://purl.org/pcp-on-web/ontology#Chair>. optional { ?period
<http://www.w3.org/2000/01/rdf-schema#label> ?subjectsTaught. } optional {
?period <http://purl.org/pcp-on-web/ontology#periodBody>
?academyPeriodBody. ?academyPeriodBody
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://purl.org/pcp-on-web/ontology#Academy>. ?academyPeriodBody
<http://www.w3.org/2000/01/rdf-schema#label> ?academy . } optional {
?period <http://purl.org/pcp-on-web/ontology#note> ?position. } } FILTER
((1500 <= year(?from) && year(?from) <= 1810) || (1500 <= year(?to) && year(?to) <= 1810)) . } group by ?professor ?period ?to
order by
desc(?professorName) asc(?startingYear)
```

- Q1+: This query gives also the work outside the university

```
select distinct ?professor (SAMPLE(?professorLabel) as ?professorName)
?period (SAMPLE(?work) as ?workName) (SAMPLE(?subjectsTaught) as ?subjectsTaughtName)
(SAMPLE(?faculty) as ?facultyName) (SAMPLE(?academy) as ?academyName) (min(?from) as ?startingYear) ?to
where { ?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period. ?professor <http://www.w3.org/2000/01/rdf-
schema#label> ?professorLabel.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?periodType.
optional { ?period <http://purl.org/pcp-on-web/ontology#from> ?from. }
optional { ?period <http://purl.org/pcp-on-web/ontology#to> ?to. }
{ ?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Career>.
optional { ?period <http://purl.org/pcp-on-web/ontology#periodBody> ?periodBody.
optional { ?periodBody <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Faculty>.
?periodBody <http://www.w3.org/2000/01/rdf-schema#label> ?faculty. }
optional { ?periodBody <http://purl.org/pcp-on-web/ontology#isPartOf> ?isPartOf.
?isPartOf <http://www.w3.org/2000/01/rdf-schema#label> ?academy. } } optional { ?period <http://purl.org/pcp-on-
web/ontology#subjectsTaught> ?subjectsTaught. } }
UNION { ?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Chair>.
optional { ?period <http://www.w3.org/2000/01/rdf-schema#label> ?subjectsTaught. }
optional { ?period <http://purl.org/pcp-on-web/ontology#periodBody> ?facultyPeriodBody.
?facultyPeriodBody <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Faculty>.
?facultyPeriodBody <http://www.w3.org/2000/01/rdf-schema#label> ?faculty . }
optional { ?period <http://purl.org/pcp-on-web/ontology#periodBody> ?academyPeriodBody.
?academyPeriodBody <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Academy>.
?academyPeriodBody <http://www.w3.org/2000/01/rdf-schema#label> ?academy . }
optional { ?period <http://purl.org/pcp-on-web/ontology#note> ?work. } }
UNION { ?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Office>.
optional { ?period <http://www.w3.org/2000/01/rdf-schema#label> ?work. } }
FILTER ((1500 <= year(?from) && year(?from) <= 1810) || (1500 <= year(?to) && year(?to) <= 1810)) . }
group by ?professor ?period ?to order by desc(?professorName) asc(?startingYear)
```

###

Geographical background

- Where were they born? Give me the places where professors were born between 1500-1810.
- list of professors and their born place (Helmstedt)

```
java -jar kbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?professor ?place (year(?date) as ?year)
where {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod>
?period. ?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)} order by asc(year(?date))" > prof_born_place_helmstedt.txt
```

- number of professors born per city (Helmstedt)

```
java -jar kbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?place (count(?place) as ?n)
where {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period.
```

```
?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)} group by ?place order by desc(?n) " > prof_born_place_count_helmstedt.txt
```

- list of professors and their born place (leipzig)

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?professor ?place where {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod>
?period. ?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place. ?period
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)}" > prof_born_place_leipzig.txt
```

- number of professors born per city (leipzig)

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?place (count(?place) as ?n)
where {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period.
?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)} group by ?place order by desc(?n) " > prof_born_place_count_leipzig.txt
```

- number of professors born per city (both cities)

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?place (count(?place) as ?n)
where {{?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period.
?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)} UNION {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period.
?period <http://purl.org/pcp-on-web/ontology#periodPlace> ?place.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Birth>.
?period <http://purl.org/pcp-on-web/ontology#date> ?date.
filter(1500<=year(?date) && year(?date)<=1810)}} group by ?place order by desc(?n) " > prof_born_place_count.txt
```

###

Education

- Q3: What kind of degree had a professor by the time of their first call? (How many professors became a professor without having a doctor title?)

```
select distinct ?professor ?professorLabel ?facultyLabel
(min(?from) as ?startingYear) ?studySubject ?studyFrom ?studyTo ?gradType ?gradDate ?qualificationType
?qualificationAcademicTitle ?qualificationDate
where { ?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period. ?professor <http://www.w3.org/2000/01/rdf-
schema#label> ?professorLabel.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Career>.
?period <http://purl.org/pcp-on-web/ontology#from> ?from.
?period <http://purl.org/pcp-on-web/ontology#periodBody> ?periodBody.
?periodBody <http://www.w3.org/2000/01/rdf-schema#label> ?facultyLabel.
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?study.
?study a <http://purl.org/pcp-on-web/ontology#Study> .
?study <http://purl.org/pcp-on-web/ontology#from> ?studyFrom .
?study <http://purl.org/pcp-on-web/ontology#to> ?studyTo .
?study <http://purl.org/pcp-on-web/ontology#subjectStudied> ?studySubject . }
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?graduation.
?graduation a <http://purl.org/pcp-on-web/ontology#Graduation> .
?graduation <http://purl.org/pcp-on-web/ontology#date> ?gradDate .
?graduation <http://purl.org/pcp-on-web/ontology#graduationType> ?gradType . }
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?qualification.
?qualification a <http://purl.org/pcp-on-web/ontology#Qualification> .
?qualification <http://purl.org/pcp-on-web/ontology#date> ?qualificationDate .
?qualification <http://purl.org/pcp-on-web/ontology#periodDocument> ?qualificationPeriodDocument .
?qualificationPeriodDocument <http://purl.org/pcp-on-web/ontology#academicTitle> ?qualificationAcademicTitle .
?qualificationPeriodDocument <http://purl.org/pcp-on-web/ontology#type> ?qualificationType . }
FILTER ( 1500 <= year(?from) && year(?from) <= 1810) . }
group by ?professor ?professorLabel ?facultyLabel ?studySubject ?studyFrom ?studyTo ?gradType ?gradDate ?qualificationType
?qualificationAcademicTitle
?qualificationDate order by desc(?professor) asc(?startingYear)
```

###

Publications

- Give me all professors with publications and publication year, divide into Gattung/Fach!
- Give me all professors who got mentioned in publications as "Widmungsempfänger" and/or praeses
- Give me all professors and their publication dates plus at which faculty those professors taught.

###

Career

- Q5: Give me the universities where professors studied and where they got their first professorship!

```
select distinct ?professor ?professorLabel ?facultyLabel ?periodBody ?from ?studySubject ?studyLocationLabel ?studyFrom ?studyTo
?gradType ?gradDate
?graduationPlaceLabel ?qualificationType ?qualificationAcademicTitle ?qualificationDate
```

```

where { ?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?period <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Career>.
?period <http://purl.org/pcp-on-web/ontology#from> ?from. ?period <http://purl.org/pcp-on-web/ontology#periodBody> ?periodBody.
?periodBody <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Faculty>.
?periodBody <http://www.w3.org/2000/01/rdf-schema#label> ?facultyLabel.
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?study.
?study a <http://purl.org/pcp-on-web/ontology#Study> .
?study <http://purl.org/pcp-on-web/ontology#periodBody> ?studyPeriodBody.
?studyPeriodBody <http://www.w3.org/2000/01/rdf-schema#label> ?studyLocationLabel.
?study <http://purl.org/pcp-on-web/ontology#from> ?studyFrom .
?study <http://purl.org/pcp-on-web/ontology#to> ?studyTo .
?study <http://purl.org/pcp-on-web/ontology#subjectStudied> ?studySubject . }
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?graduation.
?graduation a <http://purl.org/pcp-on-web/ontology#Graduation> .
?graduation <http://purl.org/pcp-on-web/ontology#periodPlace> ?graduationPlace .
?graduationPlace <http://www.w3.org/2000/01/rdf-schema#label> ?graduationPlaceLabel.
?graduation <http://purl.org/pcp-on-web/ontology#date> ?gradDate .
?graduation <http://purl.org/pcp-on-web/ontology#graduationType> ?gradType . }
OPTIONAL {?professor <http://purl.org/pcp-on-web/ontology#hasPeriod> ?qualification.
?qualification a <http://purl.org/pcp-on-web/ontology#Qualification> .
?qualification <http://purl.org/pcp-on-web/ontology#periodBody> ?qualificationPeriodBody .
?qualificationPeriodBody <http://purl.org/pcp-on-web/ontology#bodyPlace> ?qualificationBodyPlace.
?qualificationBodyPlace <http://www.w3.org/2000/01/rdf-schema#label> ?qualificationBodyPlaceLabel.
?qualification <http://purl.org/pcp-on-web/ontology#date> ?qualificationDate .
?qualification <http://purl.org/pcp-on-web/ontology#periodDocument> ?qualificationPeriodDocument .
?qualificationPeriodDocument <http://purl.org/pcp-on-web/ontology#academicTitle> ?qualificationAcademicTitle .
?qualificationPeriodDocument <http://purl.org/pcp-on-web/ontology#type> ?qualificationType . }
OPTIONAL { ?period <http://purl.org/pcp-on-web/ontology#from> ?otherfrom .
FILTER( ?otherfrom < ?from ) . } . FILTER ( !bound(?otherfrom) && 1500 <= year(?from) && year(?from) <= 1810) . } order by
desc(?professor) asc(?from)

```

```
###
```

More specific topic:

- Give me all dissertations/disputations (Qualifikationsschrift) a professor was involved.
- Give me all dissertations/disputations (Qualifikationsschrift) a professor was mentioned as praeses (Präses).

```

java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?doc ?docLabel ?docType ?professor ?professorLabel
where {{?doc <http://purl.org/pcp-on-web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .}
UNION { ?doc <http://purl.org/pcp-on-web/ontology#author> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .
}} " > doc_praeses_result.txt

```

- number of dissertations/report per professor:

```

java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(?doc) as ?docN) ?docType ?professor ?professorLabel
where {{?doc <http://purl.org/pcp-on-web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .}
UNION { ?doc <http://purl.org/pcp-on-web/ontology#author> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .}}
group by ?docType ?professor ?professorLabel order by asc(?professor) desc(?docN)" > doc_type_count.txt

```

- Number of documents in which the professor was Praeses sorted by number of documents (split by type)

```

java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(?doc) as ?docN) ?docType ?professor ?professorLabel where {{?doc <http://purl.org/pcp-on-
web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .}
UNION { ?doc <http://purl.org/pcp-on-web/ontology#author> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .} }
group by ?docType ?professor ?professorLabel order by desc(?docN)" > doc_type_count_desc.txt

```

- Total Number of documents (Qualification + Report) in which the professor was Praeses sorted by the total

```

java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(?doc) as ?docN) ?docType ?professor ?professorLabel where {{?doc <http://purl.org/pcp-on-
web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://www.w3.org/2000/01/rdf-schema#Resource>.

```

```
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .}
UNION { ?doc <http://purl.org/pcp-on-web/ontology#author> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> ?docType.
optional {?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .} }
group by ?docType ?professor ?professorLabel order by desc(?docN)" > doc_total_count_desc.txt
```

- Give me all dissertations/disputations (Qualifikationsschrift) a professor was mentioned as a well-wisher.
- Give me all dissertations/disputations (Qualifikationsschrift) which are dedicated to a person/professor.
- Give me all dissertations/disputations (Qualifikationsschrift) held by the philosophical/theological/medicine/law faculty.

(There is no way to know the Theses faculty with the data available e.g. https://opacplus.bib-bvb.de/TouchPoint_touchpoint/start.do?query=1120%3D%22%5C%22VD17+12%3A148842S%5C%22%22&Language=De&SearchProfile=Altbestand.
We could check (maybe) what the professor was teaching at the specific year, even so it will not be absolutely right.)
The query bellow agroup only year/faculty of Qualification.

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(?doc) as ?docN) ?faculty (year(?docDate) as ?year)
where { ?doc <http://purl.org/pcp-on-web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#QualificationDocument>.
?doc <http://purl.org/pcp-on-web/ontology#faculty> ?faculty.
?doc <http://purl.org/pcp-on-web/ontology#date> ?docDate.
optional { ?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .
filter(datatype(?docDate)= <http://www.w3.org/2001/XMLSchema#date> ).}
group by ?faculty ?docDate order by desc(?faculty) asc(?year)" > doc_total_count_faculty_desc_year.txt
```

- Number of qualifications per professor per year:

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(?doc) as ?docN) ?professor ?year where { { select ?doc ?professor (year(?docDate) as ?year)
where { ?doc <http://purl.org/pcp-on-web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#QualificationDocument>.
?doc <http://purl.org/pcp-on-web/ontology#faculty> ?faculty.
?doc <http://purl.org/pcp-on-web/ontology#date> ?docDate.
optional { ?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .
filter(datatype(?docDate)= <http://www.w3.org/2001/XMLSchema#date> )}}} group by ?professor ?year order by asc(?year)" >
doc_total_count_professor_asc_year.txt
```

- Qualification / year / professor

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
sparql "select distinct ?doc ?professor ?year where { { select ?doc ?professor (year(?docDate) as ?year)
where { ?doc <http://purl.org/pcp-on-web/ontology#praeses> ?professor.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?professorLabel.
?doc <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#QualificationDocument>.
?doc <http://purl.org/pcp-on-web/ontology#faculty> ?faculty.
?doc <http://purl.org/pcp-on-web/ontology#date> ?docDate.
optional { ?doc <http://www.w3.org/2000/01/rdf-schema#label> ?docLabel}.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://purl.org/pcp-on-web/ontology#Professor> .
filter(datatype(?docDate)= <http://www.w3.org/2001/XMLSchema#date> ).}}} order by asc(?year)" >
qualification_professor_asc_year.txt
```

- Selecting professors that teach "Eloquenz"

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?s where {?s <http://purl.org/pcp-on-web/ontology#subjectsTaught> ?o. filter regex(?o, 'eloquenz', 'i'))}"
```

- Counting the number of professors that teach "anatomie"

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select (count(distinct ?s) as ?n) where {?s <http://purl.org/pcp-on-web/ontology#subjectsTaught> ?o. filter regex(?o, 'anatomie', 'i'))}"
```

- Selecting all triples on which the term "eloquentia" appears as subject

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?s ?p ?o where {?s ?p ?o. filter regex(?o, 'eloquentia', 'i'))}" > eloquentia_result_query.txt
```

- Selecting all data from the Lipsiensium dataset on which the word "ethica" occurs

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?s ?p ?o where {?s ?p ?o. filter(regex(?o, 'ethica', 'i') && regex(str(?s), 'http://aditus.catalogus-professorum.org/lipsiensium'))}" > ethica_leipzig_query.txt
```

- Selecting all data from the Helmsted dataset on which the word "ethica" occurs

```
java -jar kbbox-v0.0.1-alpha3-RC16.jar -kb "http://purl.org/pcp-on-web/ontology,http://purl.org/pcp-on-web/dataset"
-sparql "select ?s ?p ?o where {?s ?p ?o. filter(regex(?o, 'ethica', 'i') && regex(str(?s), 'http://aditus.catalogus-professorum.org/helmstedt'))}" > ethica_helmstedt_query.txt
```

- Where was a professor born?

<Leipzig>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?name ?periodPlace ?periodPlaceLabel
where { ?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>.
?s <http://www.w3.org/2000/01/rdf-schema#label> ?name.
?s <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?period a <http://catalogus-professorum.org/cpd/Birth>.
?period <http://catalogus-professorum.org/cpd/periodPlace> ?periodPlace.
?periodPlace <http://www.w3.org/2000/01/rdf-schema#label> ?periodPlaceLabel}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" > leipzig_bornplace_result.txt
```

<Helmstedt>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?name ?periodPlace ?periodPlaceLabel
where { ?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Professor>.
?s <http://www.w3.org/2000/01/rdf-schema#label> ?name.
?s <http://uni-helmstedt.hab.de/cph/model/hasPeriod> ?period.
?period a <http://uni-helmstedt.hab.de/cph/model/Birth>.
?period <http://uni-helmstedt.hab.de/cph/model/periodPlace> ?periodPlace.
?periodPlace <http://www.w3.org/2000/01/rdf-schema#label> ?periodPlaceLabel}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" > helmstedt_bornplace_result.txt
```

<Together>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?name ?periodPlace ?periodPlaceLabel
where { { ?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>.
?s <http://www.w3.org/2000/01/rdf-schema#label> ?name.
?s <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?period a <http://catalogus-professorum.org/cpd/Birth> .
?period <http://catalogus-professorum.org/cpd/periodPlace> ?periodPlace.
?periodPlace <http://www.w3.org/2000/01/rdf-schema#label> ?periodPlaceLabel}
UNION { ?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Professor>.
?s <http://www.w3.org/2000/01/rdf-schema#label> ?name.
?s <http://uni-helmstedt.hab.de/cph/model/hasPeriod> ?period.
?period a <http://uni-helmstedt.hab.de/cph/model/Birth>.
?period <http://uni-helmstedt.hab.de/cph/model/periodPlace> ?periodPlace.
?periodPlace <http://www.w3.org/2000/01/rdf-schema#label> ?periodPlaceLabel } }"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" >
helmstedt_leipzig_bornplace_result.txt
```

- What was the profession of the father? (probably not yet able to answer because of the missing data)
- What is the number of professors born per city?
- Where did the professor study?

<Leipzig>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?professor ?plabel ?school ?slabel
where { ?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>.
?period <http://catalogus-professorum.org/cpd/periodBody> ?school.
?school a <http://catalogus-professorum.org/cpd/School>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" > leipzig_professor_study_result.txt
```

<Helmstedt>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?professor ?plabel ?school ?slabel
where { ?professor <http://uni-helmstedt.hab.de/cph/model/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Professor>.
?period <http://uni-helmstedt.hab.de/cph/model/periodBody> ?school.
?school <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Academy>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" > helmstedt_professor_study_result.txt
```

<Together>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?professor ?plabel ?school ?slabel
where {
{ ?professor <http://uni-helmstedt.hab.de/cph/model/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Professor>.
?period <http://uni-helmstedt.hab.de/cph/model/periodBody> ?school.
?school <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Academy>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.}
UNION
{?professor <http://uni-helmstedt.hab.de/cph/model/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Professor>.
?period <http://uni-helmstedt.hab.de/cph/model/periodBody> ?school.
?school <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Academy>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" >
helmstedt_leipzig_professor_study_result.txt
```

- What did the professor study?

<Leipzig>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?professor ?plabel ?school ?slabel ?subjectStudied
where { ?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>.
?period <http://catalogus-professorum.org/cpd/periodBody> ?school.
?school a <http://catalogus-professorum.org/cpd/School>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.
?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?studyPeriod.
?studyPeriod <http://catalogus-professorum.org/cpd/subjectStudied> ?subjectStudied. }"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

<Helmstedt>

It seems the data from Helmstadt does not contain the professor's alma mater

- How many professors had the titel of Lizenziat / Magister / Doktor / juris, philosophiae, medicinae, theologiae

<Leipzig>

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?subjectStudiedLabel (count(?subjectStudiedLabel) as ?n)
where { ?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>.
?period <http://catalogus-professorum.org/cpd/periodBody> ?school.
?school a <http://catalogus-professorum.org/cpd/School>.
?school <http://www.w3.org/2000/01/rdf-schema#label> ?slabel.
?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?studyPeriod.
?studyPeriod <http://catalogus-professorum.org/cpd/subjectStudied> ?subjectStudied.
BIND(STR(?subjectStudied) as ?subjectStudiedLabel)} group by ?subjectStudiedLabel order by ?n"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

<Helmstedt>

It seems the data from Helmstadt does not contain the titel, but just the course where the professor uses to teach

- What academic titles did the professor gain before his first professorship?
- What academic titles did the professor gain after he became professor in Leipzig or Helmstedt?
- Was the professor married?

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?pLabel
where { ?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?period.
?professor <http://www.w3.org/2000/01/rdf-schema#label> ?plabel.
?professor <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Professor>..
?professor <http://catalogus-professorum.org/cpd/hasPeriod> ?familyPeriod.
?familyPeriod a <http://catalogus-professorum.org/cpd/Family>. }"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

- What was the maiden name of was the professor married to? (relations to other professor families ate the same university?)
- Who was the father of the professors wife?
- How old was the professor when he got married?
- Did he marry after becoming professor in Leipzig or Helmstedt?
- How old was the professor when he became professor in Leipzig or Helmstedt?
- Was it his first professorship?
- At which faculties did the professor work?
- Did the professor hold offices outside the university?
- How many titles did the professor publish?
- Did the professor publish dissertations?
- Was the professor präses? (praeses)

###

Tests

Listing every existing Person in BOTH datasets (<http://catalogus-professorum.org/cpd/Person> UNION <http://uni-helmstedt.hab.de/cph/model/Person>)
that have the same surname (?lsurname = ?hsurname)

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s {{?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://catalogus-professorum.org/cpd/Person> .
?s <http://catalogus-professorum.org/cpd/surname> ?lsurname.}
UNION {?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Person>.
?s <http://uni-helmstedt.hab.de/cph/model/surname> ?hsurname} Filter(?lsurname = ?hsurname)}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

- Selecting everybody in Helmstedt that has the same surname

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select distinct ?s ?s1 {?s <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Person>.
?s <http://uni-helmstedt.hab.de/cph/model/surname> ?hsurname1.
?s1 <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://uni-helmstedt.hab.de/cph/model/Person>.
?s1 <http://uni-helmstedt.hab.de/cph/model/surname> ?hsurname2. Filter((?hsurname1 = ?hsurname2) && (?s != ?s1))}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph" > sameName.txt
```

- Selecting facts from a specific subject

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?p ?o {?s ?p ?o. Filter(?s = <http://uni-helmstedt.hab.de/cph/person/10009>)}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

- Selecting every fact from a subject as well as every link to it:

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?p ?o {?s ?p ?o. Filter(?s = <http://uni-helmstedt.hab.de/cph/person/13114> || ?o = <http://uni-helmstedt.hab.de/cph/person/13114> )}"
-kb "http://aditus.catalogus-professorum.org/lipsiensium,http://uni-helmstedt.hab.de/cph"
```

- term "mense" to find out how much data of the Helmstedt Portal is to be found rdf data.

```
java -jar kbox-v0.0.1-alpha3-RC16.jar
-sparql "select ?s ?slabel where { ?s <http://www.w3.org/2000/01/rdf-schema#label> ?slabel. FILTER (CONTAINS(?slabel, 'mense'))
}"
-kb "http://uni-helmstedt.hab.de/cph" -install > contains_mense_result.txt
```

- Was the professor respondent?
- How many dedications are among the published dissertations?