

Jena 3
Consultando la web semántica con *SPARQL*

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Resumen

En este documento se muestran las consultas y resultados obtenidos en los diferentes ejercicios propuestos. Se utiliza para tal fin una aplicación en desarrollada en *Java* para la realización de consultas *SPARQL*.

Estas consultas podrán realizarse en local –mediante un fichero *RDF* de entrada– o en remoto –utilizando una dirección URL hacia un *endpoint* desde el cual se desee realizar la consulta.

El resultado de las consultas *SPARQL* pueden ser visualizados desde la aplicación o almacenados un fichero local en dos posibles formatos: texto o *SRX*.

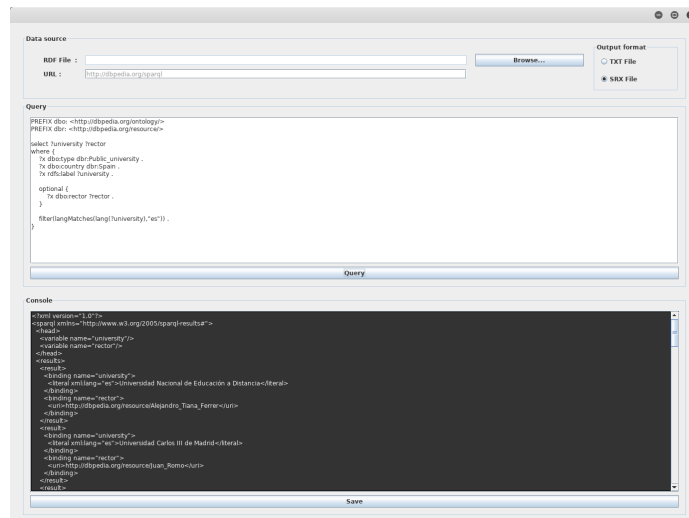


Figura 1: Programa desarrollado en *Java* para realizar consultas *SPARQL*

Consultas locales utilizando un fichero *RDF*

1.1. Obtener el número total de artículos

```
1 SELECT (COUNT(? article) AS ?articles)
2 WHERE
3 {
4     ?article rdfs:label "article" .
5 }
```

Listing 1.1: Consulta SPARQL

```
1
2 | articles |
3
4 | 3196 |
5
```

Listing 1.2: Resultado en formato *TXT*

```
1 <?xml version="1.0"?>
2 <sparql xmlns="http://www.w3.org/2005/sparql-results#">
3   <head>
4     <variable name="articles"/>
5   </head>
6   <results>
7     <result>
8       <binding name="articles">
9         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
10            >3196</literal>
11       </binding>
12     </result>
13   </results>
14 </sparql>
```

Listing 1.3: Resultado en formato *SRX*

1.2. Obtener el número de artículos para cada una de las revistas por orden creciente de número de artículos

```
1 SELECT ?journal (COUNT (? article) AS ?articles)
2 WHERE
```

```

3 {
4   ?pub dcterms:type ?article .
5   ?article rdfs:label "article" .
6
7   ?pub dcterms:isPartOf ?x .
8   ?x dcterms:isPartOf ?y .
9   ?y rdfs:label ?journal .
10 }
11 GROUP BY ?journal
12 ORDER BY ?articles

```

Listing 1.4: Consulta SPARQL

1			
2	journal	articles	
3			
4	"PALEONTOLOGICAL SOCIETY PAPERS"	2	
5	"GEOLOGISCHES JAHRBUCH REIHE A"	3	
6	"PALAEOBIO DIVERSITY AND PALAEOENVIRONMENTS"	4	
7	"MEMOIRS- GEOLOGICAL SOCIETY OF AMERICA"	7	
8	"ANNALES DE PALEONTOLOGIE"	8	
9	"BOLLETTINO- SOCIETA PALEONTOLOGICA ITALIANA"	8	
10	"PALAEOLOGISCHE ZEITSCHRIFT"	9	
11	"PALAONTOLOGISCHE ZEITSCHRIFT"	9	
12	"SWISS JOURNAL OF PALAEOLOGY"	9	
13	"ANNALS- CARNEGIE MUSEUM PITTSBURGH"	12	
14	"JOURNAL OF SYSTEMATIC PALAEOLOGY"	13	
15	"BULLETINS OF AMERICAN PALEONTOLOGY"	16	
16	"JOURNAL OF MICROPALAEOLOGY"	16	
17	"REVUE DE MICROPALAEOLOGIE"	16	
18	"JOURNAL- PALEONTOLOGICAL SOCIETY OF KOREA"	17	
19	"REVISTA ESPANOLA DE MICROPALAEOLOGIA"	20	
20	"SPECIAL PAPERS IN PALAEOLOGY"	23	
21	"MITTEILUNGEN- MUSEUM FUR NATURKUNDE IN BERLIN GEOWISSENSCHAFTLICHE REIHE"		25
22	"PUBLICATIONS- SOCIETY OF ECONOMIC PALAEOLOGISTS AND MINERALOGISTS PERMIAN BASIN SECTION PBS SEPM"	30	
23	"REVUE DE PALEOBIOLOGIE"	33	
24	"RIVISTA ITALIANA DI PALEONTOLOGIA E STRATIGRAFIA"		

25		"ICHNOS –CHUR–"		38	
				42	
26		"PALEONTOLOGICAL RESEARCH"		42	
27		"PALAEOWORLD"		45	
28		"FACIES"		49	
29		"HISTORICAL BIOLOGY"		54	
30		"VERTEBRATA PALASIATICA"		55	
31		"ALCHERINGA"		64	
32		"MARINE MICROPALAEONTOLOGY"		64	
33		"LETHAIA"		69	
34		"COMPTES RENDUS PALEVOL"		74	
35		"PALEOBIOLOGY –CHICAGO–"		77	
36		"ACTA PALAEONTOLOGICA SINICA"		80	
37		"BOREAS –OSLO–"		85	
38		"ACTA PALAEONTOLOGICA POLONICA"		99	
39		"JOURNAL OF NATURAL RESOURCES AND LIFE SCIENCES EDUCATION"		114	
40		"JOURNAL OF PALEONTOLOGY"		128	
41		"GEOBIOS –JODHPUR–"		137	
42		"PALEONTOLOGICAL JOURNAL C/C OF PALEONTOLOGICHESKII ZHURNAL"		139	
43		"PALAEONTOLOGY"		140	
44		"ANAIS– ACADEMIA BRASILEIRA DE CIENCIAS"		185	
45		"NEUES JAHRBUCH FUR GEOLOGIE UND PALAONTOLOGIE ABHANDLUNGEN"		226	
46		"SPECIAL PAPERS– GEOLOGICAL SOCIETY OF AMERICA"		340	
47		"PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY"		570	
48					

Listing 1.5: Resultado en formato *TXT*

```

1 <?xml version="1.0"?>
2 <sparql xmlns="http://www.w3.org/2005/sparql-results#">
3   <head>
4     <variable name="journal"/>
5     <variable name="articles"/>
6   </head>
7   <results>
8     <result>
9       <binding name="journal">
```

```

10      <literal>PALEONTOLOGICAL SOCIETY PAPERS</literal>
11    </binding>
12    <binding name="articles">
13      <literal datatype="http://www.w3.org/2001/XMLSchema#integer
14    ">2</literal>
15    </binding>
16  </result>
17 <result>
18   <binding name="journal">
19     <literal>GEOLOGISCHES JAHRBUCH REIHE A</literal>
20   </binding>
21   <binding name="articles">
22     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
23   ">3</literal>
24   </binding>
25 </result>
26 <result>
27   <binding name="journal">
28     <literal>PALAEOBIODIVERSITY AND PALAEOENVIRONMENTS</literal
29   >
30   </binding>
31   <binding name="articles">
32     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
33   ">4</literal>
34   </binding>
35 </result>
36 <result>
37   <binding name="journal">
38     <literal>MEMOIRS- GEOLOGICAL SOCIETY OF AMERICA</literal>
39   </binding>
40   <binding name="articles">
41     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
42   ">7</literal>
43   </binding>
44 </result>
45 <result>
46   <binding name="journal">
47     <literal>ANNALES DE PALEONTOLOGIE</literal>
48   </binding>
49   <binding name="articles">
50     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
51   ">8</literal>
52   </binding>
53 </result>
54 <result>
55   <binding name="journal">
56     <literal>BOLLETTINO- SOCIETA PALEONTOLOGICA ITALIANA</
57   literal>
58   </binding>
59   <binding name="articles">
60     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
61   ">8</literal>
62   </binding>

```

```

63 </result>
64 <result>
65   <binding name="journal">
66     <literal>PALAONTOLOGISCHE ZEITSCHRIFT</literal>
67   </binding>
68   <binding name="articles">
69     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
70   </binding>
71 </result>
72 <result>
73   <binding name="journal">
74     <literal>SWISS JOURNAL OF PALAEONTOLOGY</literal>
75   </binding>
76   <binding name="articles">
77     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
78   </binding>
79 </result>
80 <result>
81   <binding name="journal">
82     <literal>ANNALS- CARNEGIE MUSEUM PITTSBURGH</literal>
83   </binding>
84   <binding name="articles">
85     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">12</literal>
86   </binding>
87 </result>
88 <result>
89   <binding name="journal">
90     <literal>JOURNAL OF SYSTEMATIC PALAEONTOLOGY</literal>
91   </binding>
92   <binding name="articles">
93     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">13</literal>
94   </binding>
95 </result>
96 <result>
97   <binding name="journal">
98     <literal>BULLETINS OF AMERICAN PALEONTOLOGY</literal>
99   </binding>
100   <binding name="articles">
101     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">16</literal>
102   </binding>
103 </result>
104 <result>
105   <binding name="journal">
106     <literal>JOURNAL OF MICROPALAEONTOLOGY</literal>
107   </binding>
108   <binding name="articles">
109     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">16</literal>
110   </binding>
111 </result>
112 <result>
113   <binding name="journal">
114     <literal>REVUE DE MICROPALAEONTOLOGIE</literal>
115   </binding>
116   <binding name="articles">
117     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">16</literal>

```



```

118     </binding>
119 </result>
120 <result>
121     <binding name="journal">
122         <literal>JOURNAL- PALEONTOLOGICAL SOCIETY OF KOREA</literal>
123     </binding>
124     <binding name="articles">
125         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
126         ">17</literal>
127     </binding>
128 </result>
129 <result>
130     <binding name="journal">
131         <literal>REVISTA ESPANOLA DE MICROPALAEONTOLOGIA</literal>
132     </binding>
133     <binding name="articles">
134         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
135         ">20</literal>
136     </binding>
137 </result>
138 <result>
139     <binding name="journal">
140         <literal>SPECIAL PAPERS IN PALAEONTOLOGY</literal>
141     </binding>
142     <binding name="articles">
143         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
144         ">23</literal>
145     </binding>
146 </result>
147 <result>
148     <binding name="journal">
149         <literal>MITTEILUNGEN- MUSEUM FUR NATURKUNDE IN BERLIN
150         GEOWISSENSCHAFTLICHE REIHE</literal>
151     </binding>
152     <binding name="articles">
153         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
154         ">25</literal>
155     </binding>
156 </result>
157 <result>
158     <binding name="journal">
159         <literal>PUBLICATIONS- SOCIETY OF ECONOMIC PALAEONTOLOGISTS
160         AND MINERALOGISTS PERMIAN BASIN SECTION PBS SEPM</literal>
161     </binding>
162     <binding name="articles">
163         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
164         ">30</literal>
165     </binding>
166 </result>
167 <result>
168     <binding name="journal">
169         <literal>REVUE DE PALEOBIOLOGIE</literal>
170     </binding>
171     <binding name="articles">
172         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
173         ">33</literal>
174     </binding>
175 </result>
176 <result>
177     <binding name="journal">
178         <literal>RIVISTA ITALIANA DI PALEONTOLOGIA E STRATIGRAFIA</literal>
179     </binding>
180     <binding name="articles">
181         <literal datatype="http://www.w3.org/2001/XMLSchema#integer"
182         ">34</literal>
183     </binding>
184 </result>
185 </result>
186 </root>

```

```

literal>
171   </binding>
172   <binding name="articles">
173     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">38</literal>
174   </binding>
175 </result>
176 <result>
177   <binding name="journal">
178     <literal>ICHNOS -CHUR</literal>
179   </binding>
180   <binding name="articles">
181     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">42</literal>
182   </binding>
183 </result>
184 <result>
185   <binding name="journal">
186     <literal>PALEONTOLOGICAL RESEARCH</literal>
187   </binding>
188   <binding name="articles">
189     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">42</literal>
190   </binding>
191 </result>
192 <result>
193   <binding name="journal">
194     <literal>PALAEOWORLD</literal>
195   </binding>
196   <binding name="articles">
197     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">45</literal>
198   </binding>
199 </result>
200 <result>
201   <binding name="journal">
202     <literal>FACIES</literal>
203   </binding>
204   <binding name="articles">
205     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">49</literal>
206   </binding>
207 </result>
208 <result>
209   <binding name="journal">
210     <literal>HISTORICAL BIOLOGY</literal>
211   </binding>
212   <binding name="articles">
213     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">54</literal>
214   </binding>
215 </result>
216 <result>
217   <binding name="journal">
218     <literal>VERTEBRATA PALASIATICA</literal>
219   </binding>
220   <binding name="articles">
221     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">55</literal>
222   </binding>
223 </result>
224 <result>

```

```

225     <binding name="journal">
226       <literal>ALCHERINGA</literal>
227     </binding>
228     <binding name="articles">
229       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">64</literal>
230     </binding>
231   </result>
232 </result>
233   <binding name="journal">
234     <literal>MARINE MICROPALAEONTOLOGY</literal>
235   </binding>
236   <binding name="articles">
237     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">64</literal>
238   </binding>
239 </result>
240 </result>
241   <binding name="journal">
242     <literal>LETHAIA</literal>
243   </binding>
244   <binding name="articles">
245     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">69</literal>
246   </binding>
247 </result>
248 </result>
249   <binding name="journal">
250     <literal>COMPTES RENDUS PALEVOI</literal>
251   </binding>
252   <binding name="articles">
253     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">74</literal>
254   </binding>
255 </result>
256 </result>
257   <binding name="journal">
258     <literal>PALEOBIOLOGY -CHICAGO-</literal>
259   </binding>
260   <binding name="articles">
261     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">77</literal>
262   </binding>
263 </result>
264 </result>
265   <binding name="journal">
266     <literal>ACTA PALAEONTOLOGICA SINICA</literal>
267   </binding>
268   <binding name="articles">
269     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">80</literal>
270   </binding>
271 </result>
272 </result>
273   <binding name="journal">
274     <literal>BOREAS -OSLO-</literal>
275   </binding>
276   <binding name="articles">
277     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">85</literal>
278   </binding>
279 </result>

```

```

280 <result>
281   <binding name="journal">
282     <literal>ACTA PALAEONTOLOGICA POLONICA</literal>
283   </binding>
284   <binding name="articles">
285     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">99</literal>
286   </binding>
287 </result>
288 <result>
289   <binding name="journal">
290     <literal>JOURNAL OF NATURAL RESOURCES AND LIFE SCIENCES
EDUCATION</literal>
291   </binding>
292   <binding name="articles">
293     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">114</literal>
294   </binding>
295 </result>
296 <result>
297   <binding name="journal">
298     <literal>JOURNAL OF PALEONTOLOGY</literal>
299   </binding>
300   <binding name="articles">
301     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">128</literal>
302   </binding>
303 </result>
304 <result>
305   <binding name="journal">
306     <literal>GEOBIOS -JODHPUR-</literal>
307   </binding>
308   <binding name="articles">
309     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">137</literal>
310   </binding>
311 </result>
312 <result>
313   <binding name="journal">
314     <literal>PALEONTOLOGICAL JOURNAL C/C OF PALEONTOLOGICHESKII
ZHURNAL</literal>
315   </binding>
316   <binding name="articles">
317     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">139</literal>
318   </binding>
319 </result>
320 <result>
321   <binding name="journal">
322     <literal>PALAEONTOLOGY</literal>
323   </binding>
324   <binding name="articles">
325     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">140</literal>
326   </binding>
327 </result>
328 <result>
329   <binding name="journal">
330     <literal>ANAIS- ACADEMIA BRASILEIRA DE CIENCIAS</literal>
331   </binding>
332   <binding name="articles">
333     <literal datatype="http://www.w3.org/2001/XMLSchema#integer

```

```

334     ">185</literal>
335   </binding>
336 </result>
337 <result>
338   <binding name="journal">
339     <literal>NEUES JAHRBUCH FUR GEOLOGIE UND PALAONTOLOGIE
340     ABHANDLUNGEN</literal>
341   </binding>
342   <binding name="articles">
343     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
344     ">226</literal>
345   </binding>
346 </result>
347 <result>
348   <binding name="journal">
349     <literal>SPECIAL PAPERS- GEOLOGICAL SOCIETY OF AMERICA</
350     literal>
351   </binding>
352   <binding name="articles">
353     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
354     ">340</literal>
355   </binding>
356 </result>
357 <result>
358   <binding name="journal">
359     <literal>PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY</
360     literal>
361   </binding>
362   <binding name="articles">
363     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
364     ">570</literal>
365   </binding>
366 </result>
367 </results>
368 </sparql>

```

Listing 1.6: Resultado en formato *SRX*

1.3. Obtener el título y número de autores de los artículos que poseen más de 8 autores por orden decreciente de número de autores

```

1 SELECT ?title (COUNT(?creator) AS ?authors)
2 WHERE
3 {
4   ?pub dcterms:type ?article .
5   ?article rdfs:label "article" .
6
7   ?pub dcterms:title ?title .
8
9   ?pub dcterms:creator ?creator .
10 }
11 GROUP BY ?title
12 HAVING (?authors > 8)
13 ORDER BY DESC(?authors)

```

Listing 1.7: Consulta SPARQL

- drivers”
- 15 | | 10 |
 | ”Comparison of stable isotope time series of stalagmite and
 | meteorological data from West Java, Indonesia”
- 16 | | 10 |
 | ”Early Triassic (Induan) Radiolaria and carbon-isotope ratios of
 | a deep-sea sequence from Waiheke Island, North Island, New
 | Zealand”
- 17 | | 10 |
 | ”Environmental and vegetational changes recorded in sedimentary
 | leaf wax n-alkanes across the Cretaceous–Paleogene boundary at
 | Loma Capiro, Central Cuba”
- 18 | | 10 |
 | ”Evidence de l’age Trias inferieur (Olenekien) dans le Bassin d’
 | Argana (Haut Atlas, Maroc) basee sur des traces chirotherioides
 | ”
- 19 | | 10 |
 | ”Geological and geochemical aspects of a Devonian siliceous
 | succession in northern Thailand: Implications for the opening
 | of the Paleo–Tethys”
- 20 | | 10 |
 | ”High Geologic Slip Rates since Early Pleistocene Initiation of
 | the San Jacinto and San Felipe Fault Zones in the San Andreas
 | Fault System: Southern California, USA”
- 21 | | 10 |
 | ”High-resolution analysis of trace elements in crustose coralline
 | algae from the North Atlantic and North Pacific by laser
 | ablation ICP-MS”
- 22 | | 10 |
 | ”Histological modifications of the rat prostate following
 | transection of somatic and autonomic nerves”
- 23 | | 10 |
 | ”Imagerie par rayonnement X synchrotron d’inclusions dans l’ambre
 | ”
- 24 | 10 |
 | ”Integrated chronostratigraphy of an intra-arc basin: $^{40}\text{Ar}/^{39}\text{Ar}$
 | Ar datings, micropalaeontology and magnetostratigraphy of the
 | early Miocene Castelsardo basin (northern Sardinia, Italy)”
- 25 | | 10 |
 | ”Integrating Field-Based Research into the Classroom: An
 | Environmental Sampling Exercise”
- 26 | | 10 |
 | ”Late Eocene sea retreat from the Tarim Basin (west China) and
 | concomitant Asian paleoenvironmental change”

27		10	"Late Little Ice Age palaeoenvironmental records from the Anzali and Amirkola Lagoons (south Caspian Sea): Vegetation and sea level changes"	
28		10	"Late Quaternary paleoenvironmental records from the western Lena Delta, Arctic Siberia"	
29		10	"Mg/Ca and $\delta^{18}O$ in the brackish shallow-water benthic foraminifer <i>Ammonia beccarii</i> "	
30		10	"Micropaleontologic record of Quaternary paleoenvironments in the Central Albemarle Embayment, North Carolina, U.S.A."	
31		10	"Modelling Late Miocene vegetation in Europe: Results of the CARAIB model and comparison with palaeovegetation data"	
32		10	"Multi proxy evidence for early to mid Holocene environmental and climatic changes in northeastern Poland"	
33		10	"Net dextral slip, Neogene San Gregorio–Hosgri fault zone, coastal California: Geologic evidence and tectonic implications"	
34		10	"Onset and termination of the late-glacial climate reversal in the high-resolution diatom and sedimentary records from the annually laminated SG06 core from Lake Suigetsu, Japan"	
35		10	"Oxygen and carbon isotope compositions of middle Cretaceous vertebrates from North Africa and Brazil: Ecological and environmental significance"	
36		10	"Palaeoenvironmental and palaeoclimatic reconstruction of the Latest Pleistocene of El Portalon Site, Sierra de Atapuerca, northwestern Spain"	
37		10	"Palaeoenvironmental studies in NW Iberia (Cantabrian range): Vegetation history and synthetic approach of the last deglaciation phases in the western Mediterranean"	
38		10	"Paleoecology of commensal epizoans fouling <i>Flexicalymene</i> (<i>Trilobita</i>) from the Upper Ordovician, Cincinnati Arch region, USA"	
39		10	"Paper II – Dirt, dates and DNA: OSL and radiocarbon chronologies"	

		of perennially frozen sediments in Siberia, and their implications for sedimentary ancient DNA studies"	
		10	
40		"Pleistocene environments and human presence in the middle Atbara valley (Khashm El Girba, Eastern Sudan)"	
		10	
41		"Postglacial changes in the Asian summer monsoon system: a pollen record from the eastern margin of the Tibetan Plateau"	
		10	
42		"Revised correlation of Silurian Provincial Series of North America with global and regional chronostratigraphic units and ¹³ Ccarb chemostratigraphy"	
		10	
43		"Sea ice extent and seasonality for the Early Pliocene northern Weddell Sea"	
		10	
44		"Sequence stratigraphy of the ANDRILL AND-2A drillcore, Antarctica: A long-term, ice-proximal record of Early to Mid-Miocene climate, sea-level and glacial dynamism"	
		10	
45		"Source, timing, frequency and flux of ice-rafted detritus to the Northeast Atlantic margin, 30–12 ka: testing the Heinrich precursor hypothesis"	
		10	
46		"Spatial variation in sediment fluxes, redox conditions, and productivity in the Permian–Triassic Panthalassic Ocean"	
		10	
47		"The Late Ordovician glacio-eustatic record from a high-latitude storm-dominated shelf succession: The Bou Ingarf section (Anti-Atlas, Southern Morocco)"	
		10	
48		"The Permian–Triassic transition and the onset of Mesozoic sedimentation at the northwestern peri-Tethyan domain scale: Palaeogeographic maps and geodynamic implications"	
		10	
49		"The anatomy, taphonomy, taxonomy and systematic affinity of Markuelia: Early Cambrian to Early Ordovician scalidophorans"	
		10	
50		"The mid-Capitanian (Middle Permian) mass extinction and carbon isotope record of South China"	
		10	
51		"Un nouveau site a vertebres terrestres juste apres la limite Paleocene–Eocene, dans la Formation de Mortemer en Haute-Normandie, France"	

52		10	"Anti-inflammatory, antinociceptive, and antipyretic effects of methanol extract of <i>Cariniana rubra</i> stem bark in animal models"
53		9	"Anti-phase oscillation of Asian monsoons during the Younger Dryas period: Evidence from peat cellulose $\delta^{13}C$ of Hani, Northeast China"
54		9	"Asian early Paleogene chronology and mammalian faunal turnover events"
55		9	"Attributes of the wood-boring trace fossil <i>Asthenopodichnium</i> in the Late Cretaceous Wahweap Formation, Utah, USA"
56		9	"Biological and water chemistry controls on Sr/Ca, Ba/Ca, Mg/Ca and $\delta^{18}O$ profiles in freshwater pearl mussel <i>Hyriopsis</i> sp."
57		9	"Biostratigraphical calibration of third order Ordovician sequences on the northern Gondwana platform"
58		9	"Changes in Glycosaminoglycan Synthesis and RPTB- Expression in the Cortex and Hippocampus of Rats Due to Pilocarpine-induced Epilepsy"
59		9	"Climate control of sulfate influx to Lake Hovsgol, northwest Mongolia, during the last glacial-postglacial transition: Constraints from sulfur geochemistry"
60		9	"Collaborative Graduate Education across Multiple Campuses"
61		9	"Comparison of carbonate C and O stable isotope records across the Jurassic/Cretaceous boundary in the Tethyan and Boreal Realms"
62		9	"Coupling of palaeoceanographic shifts and changes in marine reservoir ages off North Iceland through the last millennium"
63		9	"Distribution of large <i>Emiliana huxleyi</i> in the Central and Northeast Atlantic as a tracer of surface ocean dynamics during the last 25,000 years"
		9	

64		"Early Eocene perissodactyls (Mammalia) from the upper Nomogen Formation of the Erlian Basin, Nei Mongol, China"	
		9	
65		"Etude des Homo erectus de Yunxian et de Nankin en Chine. Apport de l'imagerie 3D"	
		9	
66		"Global radiolarian zonation for the Pliensbachian, Toarcian and Aalenian"	
		9	
67		"High prevalence of unusual genotypes of Toxoplasma gondii infection in pork meat samples from Erechim, Southern Brazil"	
		9	
68		"Hydrocarbon seeps from close to the Jurassic–Cretaceous boundary, Svalbard"	
		9	
69		"In vitro and in vivo antiproliferative activity of Calotropis procera stem extracts"	
		9	
70		"Intense storm activity during the Little Ice Age on the French Mediterranean coast"	
		9	
71		"Late Quaternary (Weichselian) alluvial history and neotectonic control on fluvial landscape development in the southern Koros plain, Hungary"	
		9	
72		"Palaeoenvironmental changes in the Padul Basin (Granada, Spain) over the last 1Ma based on the biomarker content"	
		9	
73		"Petrographic and isotopic evidence for Holocene long-term climate change and shorter-term environmental shifts from a stalagmite from the Serra do Courel of northwestern Spain, and implications for climatic history across Europe and the Mediterranean"	9
74		"Predation on Holocene ostracods of the Donana National Park (SW Spain)"	
		9	
75		"Production, purification and characterization of a thermostable beta -1,3-glucanase (laminarinase) produced by Moniliophthora perniciosa"	
		9	
76		"Role of renin–angiotensin system in development of heart failure induced by myocardial infarction in rats"	

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77 | "Surface Microstructures of the Microbialite Around Permo-
    | Triassic Boundary, NE Sichuan, China"
78 | "The Holocene vertebrate fauna from Guenfouda site, Eastern
    | Morocco"
79 | "Triassic Evolution of the Yangtze Platform in Guizhou Province,
    | People's Republic of China"
80 |

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Listing 1.8: Resultado en formato *TXT*

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5     <variable name="authors"/>
6   </head>
7   <results>
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14      </binding>
15    </result>
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18        <literal>A new freshwater crab (Decapoda: Brachyura:
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30      </binding>

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74     <literal>Biogeochemical indicators of environmental changes
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447   </result>
448 </result>
449   <binding name="title">
450     <literal>Climate control of sulfate influx to Lake Hovsgol,
        northwest Mongolia, during the last glacial-postglacial
        transition: Constraints from sulfur geochemistry</literal>
451   </binding>
452   <binding name="authors">
453     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
454   </binding>
455 </result>
456 </result>
457   <binding name="title">
458     <literal>Collaborative Graduate Education across Multiple
        Campuses</literal>
459   </binding>
460   <binding name="authors">
461     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
462   </binding>
463 </result>
464 </result>
465   <binding name="title">
466     <literal>Comparison of carbonate C and O stable isotope
        records across the Jurassic/Cretaceous boundary in the Tethyan
        and Boreal Realms</literal>
467   </binding>
468   <binding name="authors">
469     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
470   </binding>
471 </result>
472 </result>
473   <binding name="title">
474     <literal>Coupling of palaeoceanographic shifts and changes
        in marine reservoir ages off North Iceland through the last
        millennium</literal>
475   </binding>
476   <binding name="authors">
477     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
478   </binding>
479 </result>
480 </result>
481   <binding name="title">
482     <literal>Distribution of large Emiliana huxleyi in the
        Central and Northeast Atlantic as a tracer of surface ocean
        dynamics during the last 25,000years</literal>
483   </binding>
484   <binding name="authors">
485     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>

```

```

486     </binding>
487 </result>
488 <result>
489     <binding name="title">
490         <literal>Early Eocene perissodactyls (Mammalia) from the
upper Nomogen Formation of the Erlian Basin, Nei Mongol, China
</literal>
491     </binding>
492     <binding name="authors">
493         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
494     </binding>
495 </result>
496 <result>
497     <binding name="title">
498         <literal>Etude des Homo erectus de Yunxian et de Nankin en
Chine. Apport de l'imagerie 3D</literal>
499     </binding>
500     <binding name="authors">
501         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
502     </binding>
503 </result>
504 <result>
505     <binding name="title">
506         <literal>Global radiolarian zonation for the Pliensbachian,
Toarcian and Aalenian</literal>
507     </binding>
508     <binding name="authors">
509         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
510     </binding>
511 </result>
512 <result>
513     <binding name="title">
514         <literal>High prevalence of unusual genotypes of Toxoplasma
gondii infection in pork meat samples from Erechim, Southern
Brazil</literal>
515     </binding>
516     <binding name="authors">
517         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
518     </binding>
519 </result>
520 <result>
521     <binding name="title">
522         <literal>Hydrocarbon seeps from close to the Jurassic–
Cretaceous boundary, Svalbard</literal>
523     </binding>
524     <binding name="authors">
525         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
526     </binding>
527 </result>
528 <result>
529     <binding name="title">
530         <literal>In vitro and in vivo antiproliferative activity of
Calotropis procera stem extracts</literal>
531     </binding>
532     <binding name="authors">
533         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>

```

```

534     </binding>
535 </result>
536 <result>
537   <binding name="title">
538     <literal>Intense storm activity during the Little Ice Age
on the French Mediterranean coast</literal>
539   </binding>
540   <binding name="authors">
541     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
542   </binding>
543 </result>
544 <result>
545   <binding name="title">
546     <literal>Late Quaternary (Weichselian) alluvial history and
neotectonic control on fluvial landscape development in the
southern Koros plain , Hungary</literal>
547   </binding>
548   <binding name="authors">
549     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
550   </binding>
551 </result>
552 <result>
553   <binding name="title">
554     <literal>Palaeoenvironmental changes in the Padul Basin (
Granada, Spain) over the last 1Ma based on the biomarker
content</literal>
555   </binding>
556   <binding name="authors">
557     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
558   </binding>
559 </result>
560 <result>
561   <binding name="title">
562     <literal>Petrographic and isotopic evidence for Holocene
long-term climate change and shorter-term environmental shifts
from a stalagmite from the Serra do Courel of northwestern
Spain, and implications for climatic history across Europe and
the Mediterranean</literal>
563   </binding>
564   <binding name="authors">
565     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
566   </binding>
567 </result>
568 <result>
569   <binding name="title">
570     <literal>Predation on Holocene ostracods of the Donana
National Park (SW Spain)</literal>
571   </binding>
572   <binding name="authors">
573     <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
574   </binding>
575 </result>
576 <result>
577   <binding name="title">
578     <literal>Production, purification and characterization of a
thermostable beta -1,3-glucanase (laminarinase) produced by
Moniliophthora perniciosa</literal>

```



```

579     </binding>
580     <binding name="authors">
581       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
582     </binding>
583   </result>
584   <result>
585     <binding name="title">
586       <literal>Role of renin-angiotensin system in development of
heart failure induced by myocardial infarction in rats</
literal>
587     </binding>
588     <binding name="authors">
589       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
590     </binding>
591   </result>
592   <result>
593     <binding name="title">
594       <literal>Surface Microstructures of the Microbialite Around
Permo-Triassic Boundary, NE Sichuan, China</literal>
595     </binding>
596     <binding name="authors">
597       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
598     </binding>
599   </result>
600   <result>
601     <binding name="title">
602       <literal>The Holocene vertebrate fauna from Guenfouda site ,
Eastern Morocco</literal>
603     </binding>
604     <binding name="authors">
605       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
606     </binding>
607   </result>
608   <result>
609     <binding name="title">
610       <literal>Triassic Evolution of the Yangtze Platform in
Guizhou Province, People's Republic of China</literal>
611     </binding>
612     <binding name="authors">
613       <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
614     </binding>
615   </result>
616 </results>
617 </sparql>

```

Listing 1.9: Resultado en formato *SRX*

1.4. Obtener los 10 autores que más artículos firman por orden decreciente de número de artículos firmados.

```

1 SELECT ?name (COUNT (?article) AS ?articles)
2 WHERE

```

```

3 {
4   ?pub dcterms:type ?article .
5   ?article rdfs:label "article" .
6
7   ?pub dcterms:creator ?creator .
8   ?creator rdfs:label ?name .
9 }
10 GROUP BY ?name
11 ORDER BY DESC(? articles)
12 LIMIT 10

```

Listing 1.10: Consulta SPARQL

name	articles
"Wang, Y."	16
"Utescher, T."	12
"Kellner, A.W.A."	10
"Csiki, Z."	9
"Dean, W. E."	9
"Korn, D."	9
"Liu, J."	9
"Mosbrugger, V."	9
" "	8
"Grigorescu, D."	8

Listing 1.11: Resultado en formato *TXT*

```

1 <?xml version="1.0"?>
2 <sparql xmlns="http://www.w3.org/2005/sparql-results#">
3   <head>
4     <variable name="name"/>
5     <variable name="articles"/>
6   </head>
7   <results>
8     <result>
9       <binding name="name">
10        <literal>Wang, Y.</literal>
11      </binding>
12      <binding name="articles">
13        <literal datatype="http://www.w3.org/2001/XMLSchema#integer
14        ">16</literal>
15      </binding>
16    </result>
17    <result>
18      <binding name="name">
19        <literal>Utescher, T.</literal>
20      </binding>
21      <binding name="articles">
22        <literal datatype="http://www.w3.org/2001/XMLSchema#integer
23        ">12</literal>
24      </binding>
25    </result>
26    <result>
27      <binding name="name">
28        <literal>Kellner, A.W.A.</literal>
29      </binding>
30      <binding name="articles">
31        <literal datatype="http://www.w3.org/2001/XMLSchema#integer
32        ">10</literal>

```

```

30     </binding>
31 </result>
32 <result>
33     <binding name="name">
34         <literal>Csiki, Z.</literal>
35     </binding>
36     <binding name="articles">
37         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
38     </binding>
39 </result>
40 <result>
41     <binding name="name">
42         <literal>Dean, W. E.</literal>
43     </binding>
44     <binding name="articles">
45         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
46     </binding>
47 </result>
48 <result>
49     <binding name="name">
50         <literal>Korn, D.</literal>
51     </binding>
52     <binding name="articles">
53         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
54     </binding>
55 </result>
56 <result>
57     <binding name="name">
58         <literal>Liu, J.</literal>
59     </binding>
60     <binding name="articles">
61         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
62     </binding>
63 </result>
64 <result>
65     <binding name="name">
66         <literal>Mosbrugger, V.</literal>
67     </binding>
68     <binding name="articles">
69         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">9</literal>
70     </binding>
71 </result>
72 <result>
73     <binding name="name">
74         <literal></literal>
75     </binding>
76     <binding name="articles">
77         <literal datatype="http://www.w3.org/2001/XMLSchema#integer
">8</literal>
78     </binding>
79 </result>
80 <result>
81     <binding name="name">
82         <literal>Grigorescu, D.</literal>
83     </binding>
84     <binding name="articles">
85         <literal datatype="http://www.w3.org/2001/XMLSchema#integer

```

```
86         "8</literal>  
87     </binding>  
88 </result>  
89 </results>  
</sparql>
```

Listing 1.12: Resultado en formato *SRX*

Consultas remotas a la *URL* de *DBpedia*

Esta consulta *SPARQL* buscaremos las universidades españolas que aparecen en la *DBpedia* mostrando su nombre en español y para aquellas que tiene el rector, mostrarlo también. El *endpoint* de la *DBpedia* a utilizar se corresponde con la inglesa y no la española.

```
1 PREFIX dbo: <http://dbpedia.org/ontology/>
2 PREFIX dbr: <http://dbpedia.org/resource/>
3
4 select ?university ?rector
5 where {
6     ?x dbo:type dbr:Public_university .
7     ?x dbo:country dbr:Spain .
8     ?x rdfs:label ?university .
9
10    optional {
11        ?x dbo:rector ?rector .
12    }
13
14    filter (langMatches(lang(?university),"es")) .
15 }
```

Listing 2.1: Consulta SPARQL

1	—		
2		university	rector
3			
4		"Universidad Nacional de Educaci n a Distancia"@es	<http://dbpedia.org/resource/Alejandro_Tiana_Ferrer>
5		"Universidad Carlos III de Madrid"@es	<http://dbpedia.org/resource/Juan_Romo>
6		"Universidad Rey Juan Carlos"@es	<http://dbpedia.org/resource/Fernando_Su rez_Bilbao>
7		"Universidad de Alcal"@es	<http://dbpedia.org/resource/Dr._Fernando_Galv n>
8		"Universidad de Murcia"@es	
9		"Universidad Aut noma de Madrid"@es	
10		"Universidad de Valladolid"@es	
11		"Universidad Polit cnica de Valencia"@es	
12		"Universidad Pablo de Olavide"@es	

13		"Universidad de Huelva"@es		
14		"Universidad de M l a g a"@es		
15		"Universidad de Gerona"@es		<http://
16		dbpedia.org/resource/Sergi_Bonet>		
16		"Universidad de Barcelona"@es		
17		"Universidad de Las Palmas de Gran Canaria"@es		
18		"Universidad de La Coru a"@es		
19		"Universidad de Burgos"@es		
20		"Universidad de Castilla-La Mancha"@es		
21		"Universidad de Santiago de Compostela"@es		
22		"Universidad P blica de Navarra"@es		
23		"Universidad de Oviedo"@es		<http://
24		dbpedia.org/resource/Vicente_Gotor_Santamar a>		
24		"Universidad de Salamanca"@es		
25		"Universidad de Sevilla"@es		
26		"Universidad de La Laguna"@es		
27				

Listing 2.2: Resultado en formato *TXT*

```

1 <?xml version="1.0"?>
2 <sparql xmlns="http://www.w3.org/2005/sparql-results#">
3   <head>
4     <variable name="university"/>
5     <variable name="rector"/>
6   </head>
7   <results>
8     <result>
9       <binding name="university">
10        <literal xml:lang="es">Universidad Nacional de Educaci n a
11        Distancia</literal>
12      </binding>
13      <binding name="rector">
14        <uri>http://dbpedia.org/resource/Alejandro_Tiana_Ferrer</
15        uri>
16      </binding>
17    </result>
18    <result>
19      <binding name="university">
20        <literal xml:lang="es">Universidad Carlos III de Madrid</
21        literal>
22      </binding>
23      <binding name="rector">
24        <uri>http://dbpedia.org/resource/Juan_Romo</uri>
25      </binding>
26    </result>
27    <result>
28      <binding name="university">

```

```

26      <literal xml:lang="es">Universidad Rey Juan Carlos</literal>
27    >
28    </binding>
29    <binding name="rector">
30      <uri>http://dbpedia.org/resource/Fernando_Suarez_Bilbao</uri>
31    </binding>
32  </result>
33  <result>
34    <binding name="university">
35      <literal xml:lang="es">Universidad de Alcalá</literal>
36    </binding>
37    <binding name="rector">
38      <uri>http://dbpedia.org/resource/Dr._Fernando_Galván</uri>
39    </binding>
40  </result>
41  <result>
42    <binding name="university">
43      <literal xml:lang="es">Universidad de Murcia</literal>
44    </binding>
45  </result>
46  <result>
47    <binding name="university">
48      <literal xml:lang="es">Universidad Autónoma de Madrid</literal>
49    </binding>
50  </result>
51  <result>
52    <binding name="university">
53      <literal xml:lang="es">Universidad de Valladolid</literal>
54    </binding>
55  </result>
56  <result>
57    <binding name="university">
58      <literal xml:lang="es">Universidad Politécnica de Valencia</literal>
59    </binding>
60  </result>
61  <result>
62    <binding name="university">
63      <literal xml:lang="es">Universidad Pablo de Olavide</literal>
64    </binding>
65  </result>
66  <result>
67    <binding name="university">
68      <literal xml:lang="es">Universidad de Huelva</literal>
69    </binding>
70  </result>
71  <result>
72    <binding name="university">
73      <literal xml:lang="es">Universidad de Málaga</literal>
74    </binding>
75  </result>
76  <result>
77    <binding name="university">
78      <literal xml:lang="es">Universidad de Gerona</literal>
79    </binding>
80    <binding name="rector">
81      <uri>http://dbpedia.org/resource/Sergi_Bonet</uri>
82    </binding>

```

```

83 <result>
84   <binding name="university">
85     <literal xml:lang="es">Universidad de Barcelona</literal>
86   </binding>
87 </result>
88 <result>
89   <binding name="university">
90     <literal xml:lang="es">Universidad de Las Palmas de Gran
91     Canaria</literal>
92   </binding>
93 </result>
94 <result>
95   <binding name="university">
96     <literal xml:lang="es">Universidad de La Coru a</literal>
97   </binding>
98 </result>
99 <result>
100   <binding name="university">
101     <literal xml:lang="es">Universidad de Burgos</literal>
102   </binding>
103 </result>
104 <result>
105   <binding name="university">
106     <literal xml:lang="es">Universidad de Castilla-La Mancha</
107     literal>
108   </binding>
109 </result>
110 <result>
111   <binding name="university">
112     <literal xml:lang="es">Universidad de Santiago de
113     Compostela</literal>
114   </binding>
115 </result>
116 <result>
117   <binding name="university">
118     <literal xml:lang="es">Universidad P blica de Navarra</
119     literal>
120   </binding>
121 </result>
122 <result>
123   <binding name="university">
124     <literal xml:lang="es">Universidad de Oviedo</literal>
125   </binding>
126 </result>
127 <result>
128   <binding name="university">
129     <literal xml:lang="es">Universidad de Salamanca</literal>
130   </binding>
131 </result>
132 <result>
133   <binding name="university">
134     <literal xml:lang="es">Universidad de Sevilla</literal>
135   </binding>
136 </result>
137 <result>
138   <binding name="university">
139     <literal xml:lang="es">Universidad de La Laguna</literal>
140   </binding>

```



```
140     </result>  
141   </results>  
142 </sparql>
```

Listing 2.3: Resultado en formato *SRX*