

SQL

SQL SELECT

SELECT [**ALL** | **DISTINCT**]

<nombre_campo> [{,<nombre_campo>}]

FROM <nombre_tabla>|<nombre_vista>

[{,<nombre_tabla>|<nombre_vista>}]

[**WHERE** <condicion> [{ **AND**|**OR** <condicion>}]]

[**GROUP BY** <nombre_campo> [{,<nombre_campo >}]]

[**HAVING** <condicion>[{ **AND**|**OR** <condicion>}]]

[**ORDER BY** <nombre_campo>|<indice_campo> [**ASC** | **DESC**]

[{,<nombre_campo>|<indice_campo> [**ASC** | **DESC** }]]]:

Sample Table: empinfo					
first	last	id	age	city	state
John	Jones	99980	45	Payson	Arizona
Mary	Jones	99982	25	Payson	Arizona
Eric	Edwards	88232	32	San Diego	California
Mary Ann	Edwards	88233	32	Phoenix	Arizona
Ginger	Howell	98002	42	Cottonwood	Arizona
Sebastian	Smith	92001	23	Gila Bend	Arizona
Gus	Gray	22322	35	Bagdad	Arizona
Mary Ann	May	32326	52	Tucson	Arizona
Erica	Williams	32327	60	Show Low	Arizona
Leroy	Brown	32380	22	Pinetop	Arizona
Elroy	Cleaver	32382	22	Globe	Arizona

SPARQL

RDF triple model
is the first layer of the
semantic web standards



RDF stands for
Resource Description Framework

R**D****F** is a triple model *i.e.* every piece of knowledge is broken down into

subject , **p**redicate , **o**bject)





SPARQL on top...
an **RDF** query language
and data access protocol

SPARQL stands for
SPARQL **P**rotocol and **R**DF
Query **L**anguage



SPARQL query

SELECT . . .

FROM . . .

WHERE { . . . }

SPARQL SELECT

```
SELECT ?person WHERE{  
  ?person rdf:type dbpedia-owl:Scientist .  
  ?person dbpedia-owl:country esdbpr:España .  
}
```

SPARQL:

```
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dc: <http://purl.org/dc/elements/1.1/>
PREFIX : <http://dbpedia.org/resource/>
PREFIX dbpedia2: <http://dbpedia.org/property/>
PREFIX dbpedia: <http://dbpedia.org/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
```

```
SELECT *
WHERE {
?p a <http://dbpedia.org/ontology/Philosopher > .
?p <http://dbpedia.org/ontology/influenced > ?influenced.
}
```

Results:

<http://dbpedia.org/snorql/>



<http://es.dbpedia.org/Wiki.jsp?page=Ejemplos+de+consultas+SPARQL>