

TR-102

MASTERING THE SEMANTIC WEB

DAY-14

Some example queries related to SPARQL:

1. Retrieve All Airline Names and Their Headquarters

This query lists all airlines along with their headquarters.

PREFIX ex: <http://www.example.org#>

SELECT ?name ?headquarters

WHERE {

 ?airline rdf:type ex:Airline;

 ex:name ?name;

 ex:headquarters ?headquarters .

}

2. Get Flight Details for a Specific Flight Number

This query retrieves details for a flight with the flight number "6E 2193".

PREFIX ex: <http://www.example.org#>

SELECT ?departureAirport ?arrivalAirport ?departureTime ?arrivalTime

WHERE {

 ?flight rdf:type ex:flight;

 ex:flightNumber "6E 2193";

 ex:departureAirport ?departureAirport;

 ex:arrivalAirport ?arrivalAirport;

 ex:departureTime ?departureTime;

```
        ex:arrivalTime ?arrivalTime .  
    }  
}
```

3. List All Airports with Their Location

This query retrieves the names and locations of all airports.

PREFIX ex: <http://www.example.org#>

SELECT ?airportName ?location

WHERE {

?airport rdf:type ex:Airport;

ex:name ?airportName;

ex:location ?location .

}

4. Find the Airline Operating a Specific Flight

This query retrieves the airline operating flight "6E 2193."

PREFIX ex: <http://www.example.org#>

SELECT ?airlineName

WHERE {

?flight rdf:type ex:flight;

ex:flightNumber "6E 2193";

ex:operatedBy ?airline .

?airline ex:name ?airlineName .

}