

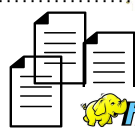
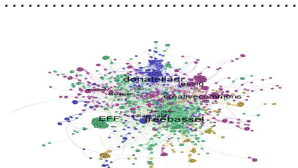
SPARQL

RDF Data



SANSA

```
SELECT ?s ?w WHERE {
  ?s a dbp:Person .
  ?s ex:workPage ?w .
}
```



1

SANSA Engine

2

Partitioning

Data Ingestion

RDF Layer

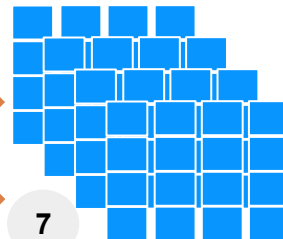
3

Views

Views

Sparklifying

Query Layer

APACHE
SparkAPACHE
Flink

Distributed Data Structures

8



Results

Sparqlify

SPARQL query

4

SPARQL Algebra
Expression Tree (AET)

Normalize AET

```
Prefix dbp:<http://dbpedia.org/ontology/>
Prefix ex:<http://ex.org/>
```

5

Create View view_person As

Construct {

```
?s a dbp:Person .
```

```
?s ex:workPage ?w .
```

}

With

```
?s = uri('http://mydomain.org/person', ?id)
```

```
?w = uri(?work_page)
```

Constrain

```
?w prefix "http://my-organization.org/user/"
```

From

```
person;
```

6

SQLAET

```
SELECT id, work_page
FROM view_person ;
```