Table of free systems especially for spatial data processing

DBS	License	Distributed	Spatial objects	Spatial functions	PostgreSQL interface	UMN MapServer interface	Documentation	Modifiable	HDFS
PostgreSQL with PostGIS	GNU General Public License	no	yes	yes	yes	yes	detailed	SQL, in connection with R	no
Rasdaman	server GPL, client LGPL, enterprise proprietary	yes	just raster	raster manipulation with rasql	yes	with Web Coverage Service or Web Processing Service	detailed wiki	own defined function in enterprise edition	no
AsterixDB	Apache License 2.0	yes	yes (custom)	center, radius, distance, area, intersect and cell	no	no	good in Google Code	own datatypes, functions and indexes	possible
ESRI GIS Tools for Hadoop	Apache License 2.0	yes	yes (own specific API)	yes (union, difference, intersect, clip, cut, buffer, equals, within, contains, crosses, and touches)	no	no	just briefly	forking	yes
Neo4J-spatial (https://github.com/neo4j-contrib/spatial)	GNU affero general public license	no	yes (Simple Feature Access)	yes (contain, cover, covered by, cross, disjoint, intersect, intersect window, overlap, touch, within and within distance)	no	no	just briefly	fork or JTS	no
Ingres	GPL or proprietary	yes (if extension is installed)	yes (custom, no raster)	Geometry Engine Open Source	no	with MapScript	just briefly	with C and OME	no
GeoMesa (http://www.geomesa.org/)	Apache License 2.0	yes	yes (Simple Feature Access)	yes (JTS)	no (manufacturable with GeoTools)	no	parts of the funcions, a few examples	with Simple Feature Access in Java Virtual Machine and Spark (https://spark.apache.org/) are all kinds of tasks solvable	yes
Postgres-XL (http://www.postgres-xl.org/) with PostGIS	Mozilla public license and GNU general public license	yes	yes	yes	yes	yes	PostGIS: yes, Postgres-XL: briefly	SQL, in conection with R or Tcl or Python (programming language)	no
H2GIS (http://www.h2gis.org/)	GPL 3	no	yes (custom, no raster)	Simple Feature Access and custom functions for H2Network	yes	no	yes (homepage)	SQL	no