

# Spatial Analysis in ADW

## What is Spatial Analysis?

Analysis using Topological, Geographical features such as location, coordinates, direction, area, connectivity etc. are fall under Spatial Analysis.

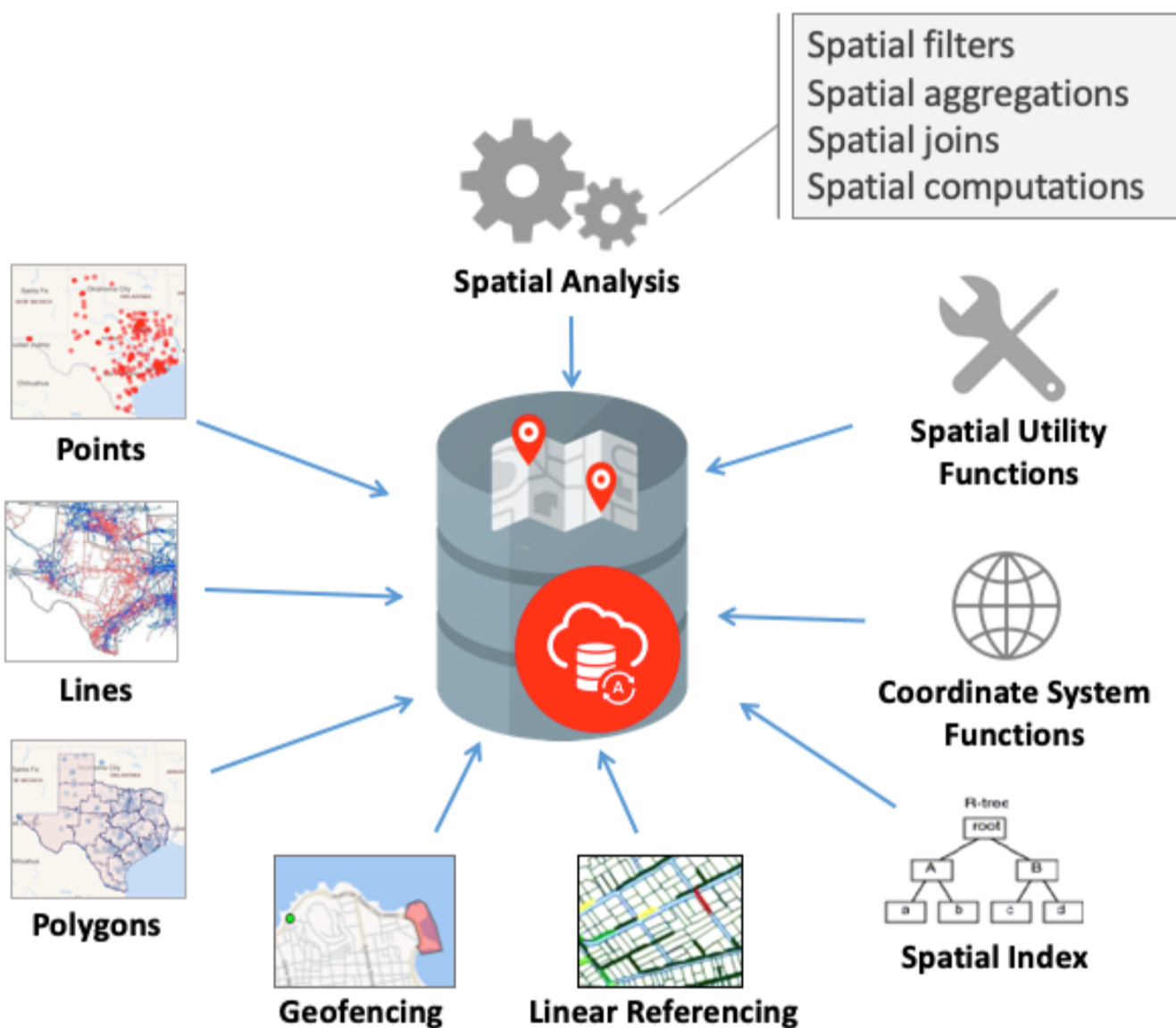


## Importance of Spatial Analysis

Spatial Data helps us achieve geographical insight such as entry & exit analysis in particular area, integrating it with other data and identifying the patterns in specific region.



## Spatial Features in Oracle Autonomous Database



## Different ways of loading Spatial data in Oracle Cloud

- Load existing spatial data
- Load GeoJSON, WKT, or WKB and convert to Spatial using SQL.
- Load coordinates and convert to Spatial using SQL.

## Configuring Spatial Data

- Insertion of Spatial metadata
- Creation of Spatial index
- Validation of Spatial data

## ML & Data Visualization

Oracle Analytics enables to apply Machine Learning algorithms and further visualize the spatial data on existing map layers or the new map layers can be uploaded.

## Spatial Analysis in Healthcare

Spatial Analysis is powerful tool to track the disease outbreak & possible cause behind it.



Spatial Analysis useful in identifying the nearest Ambulance and its live tracking and response time.



Spatial Analysis can be used to identify the health issues in particular region as per their demography and providing the necessary medical care.

