SDO\_Geometry

Space Filling Curves

Hilbert & Z-Order

Shapefile

Header = 100 bytes (144 octal)

File code = bytes 0 – 3

File length = bytes 24 – 27

Version = bytes 28 – 31

Shape type = bytes 32 – 35

|  |  |  |
| --- | --- | --- |
| Sign | Exponent | Fraction |
| 1 bit | 11 bits | 52 bits |

Map Builder

Creations stored in:

* user\_sdo\_styles
* user\_sdo\_themes
* user\_sdo\_maps

Selecting CLOBS

Set long 2000 --affects the number of bytes shown from a CLOB

Set pages 500

Select dbms\_lob.substr(definition, 4000, 1) from user\_sdo\_maps

GeoRaster

SDO\_GEOR

* Package containing subprograms (functions and procedures) for creating, modifying, and retrieving information about GeoRaster objects

SDO\_GCDR

* Package containing subprograms for geocoding address data

GDAL – Geospatial Data Abstraction Library

When a GeoRaster object is created, a link is then made between the GeoRaster table and a raster data table, and that link is recorded in user\_sdo\_geor\_sysdata

user\_sdo\_geom\_metadata

TIFF

Tagged Image File Format

GeoTIFF is a public domain metadata standard which allows [georeferencing](http://en.wikipedia.org/wiki/Georeference) information to be embedded within a TIFF file

The potential additional information includes map projection, coordinate systems, ellipsoids, [datums](http://en.wikipedia.org/wiki/Datum_%28geodesy%29), and everything else necessary to establish the exact spatial reference for the file

Triangulation of simple closed polygons

In computational geometry, **polygon triangulation** is the decomposition of a polygonal area (simple polygon) **P** into a set of triangles

Reduces complex shapes to collection of simpler shapes

Every triangulation of an n-sided polygon has exactly n-2 triangles