DZ_WKT

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Utility for the exchange of geometries between Oracle Spatial and OGC Well Known Text 1.2.1 / PostGIS Extended WKT formats.

Summary

FUNCTIONS

dz_wkt_main.wkt2sdo

Function for conversion of OGC Well Known Text Simple Features 1.21 and Extended WKT into Oracle Spatial SDO_GEOMETRY. Currently only straight-line geometries are supported.

Parameters

p_input	WKT geometry as CLOB
p_srid	Optional SRID value to apply to resulting SDO_GEOMETRY.
p_num_dims	Optional number of expected dimensions value
p_axes_latlong	Option to interpret WKT long and lat as lat and long

Returns

MDSYS.SDO_GEOMETRY spatial type

Notes

- Pure WKT has no concept of coordinate system so utilize the **p_srid** parameter to define the SRID of the output SDO_GEOMETRY object. If **p_srid** is undefined or left NULL then the resulting SDO_GEOMETRY will have a NULL SRID. If the input is EWKT with a SRID prefix then that SRID will be used unless overridden by using **p_srid**. For example, **SRID=4269;POINT(1 2)** will use 4269 in the output SDO unless overridden. EWKT SRIDs with value 0 are converted to NULL SRID unless overridden.
- DZ_WKT supports EWKT where additional dimensions are implied (e.g. WKT without a Z or M notation). For example **POINT(1 2 3)** is converted equivalent to **POINT Z(1 2 3)**. However this involves pretesting the count of ordinates to verify the dimensions and consistency. You may increase performance by setting **p_num_dims** to the number of dimensions you know to be in your input geometry.
- In some cases WKT with reverse X and Y has been observed in the wild. This is most troublesome to correct. Use this flag to allow the input of such broken WKT geometries. Note in an ideal world this should never happen.
- **POINT EMPTY** and similar empty geometries simply return NULL.

dz_wkt_main.sdo2wkt

Function for conversion of Oracle Spatial SDO_GEOMETRY into OGC Well Known Text Simple Features 1.21 or Extended WKT. Currently only straight-line geometries are supported.

Parameters

p_input	MDSYS.SDO_GEOMETRY object to convert into WKT or EWKT.
p_2d_flag	Optional TRUE/FALSE flag to remove Z and M dimensions.
p_output_srid	Optional SRID to transform geometry before conversion.
p_prune_number	Optional length to truncate precision of ordinates.
p_add_ewkt_srid	Option to add EWKT SRID as prefix to output.

Returns

CLOB text in WKT or EWKT format

Notes

- Ordinate precision pruning also affects any Z or M ordinates.
- **p_add_ewkt_srid** takes values of TRUE, FALSE or a numeric SRID. TRUE will output the final SRID of the geometry (after any transformations requested by **p_output_srid**). Entering a numeric SRID will overrule the actual SRID.