

DZ_KML

- Build ID: 4
- TFS Change Set: 8320

Utility for the exchange of geometries between Oracle Spatial and OGC Keyhole Markup Language. Originally written for 10g to produce KML from SDO and the reverse never implemented beyond a stub to SDO_UTIL.FROM_KMLGEOMETRY added with 11g.

Summary

DZ_KML

FUNCTIONS

dz_kml_main.geokml2sdo	Wrapper around SDO_UTIL.FROM_KMLGEOMETRY intended for future expansion.
dz_kml_main.sdo2geokml	Pure PLSQL utility for generating KML geometries from SDO_GEOMETRY.
dz_kml_main.value2kmldata	Pure PLSQL utility for generating KML data element.
dz_kml_main.sdo2placemark	Pure PLSQL utility for generating KML placemark element.
dz_kml_main.error2kml	Function for generating an empty (or optionally not empty) KML placemark suitable for showing error feedback in Google Earth and other KML viewers.
dz_kml_main.table2kml	Function for generating a series of KML placemarks for each record in an Oracle table.
dz_kml_main.table2kml2file	Procedure for generating a series of KML placemarks for each record in an Oracle table and writing the resulting KML to a file in an Oracle directory.

FUNCTIONS

dz_kml_main.geokml2sdo

Wrapper around SDO_UTIL.FROM_KMLGEOMETRY intended for future expansion.

Parameters

p_input KML geometry text submitted as CLOB

Returns

MDSYS.SDO_GEOMETRY

dz_kml_main.sdo2geokml

Pure PLSQL utility for generating KML geometries from SDO_GEOMETRY. This was written before the addition of SDO_UTIL.TO_KMLGEOMETRY in 11gR2. This version provides more flexibility overall in managing precision and 3D options with KML.

Parameters

p_input	input SDO_GEOMETRY to convert to KML
p_pretty_print	optional flag to produce XML in pretty printed format
p_2d_flag	optional flag to remove 3D information from input
p_prune_number	optional value to prune all vertice precision too
p_extrude	value to set for extrude in KML, default is 'false'

p_tessellate	value to set for tessellate in KML, default is 'true'
p_altitudemode	value to set for altitudemode, default is 'clampToGround'

Returns

CLOB value of KML geometry

dz_kml_main.value2kmldata

Pure PLSQL utility for generating KML data element.

Parameters

p_name	name to apply to the KML data element
p_input	value to apply to KML data element, may be VARCHAR2, NUMBER or DATE.
p_pretty_print	optional flag to produce XML in pretty printed format
p_null_handling	optional TRUE/FALSE flag to produce a null XML Data tag or simply skip XML tag generation altogether.

Returns

CLOB value of KML data element

dz_kml_main.sdo2placemark

Pure PLSQL utility for generating KML placemark element.

Parameters

p_input	geometry to insert as KML into placemark element.
p_name	name to apply to the KML placemark element.
p_visibility	optional value for placemark visibility property
p_open	optional value for placemark open property
p_address	optional value for placemark address property
p_description	optional value for placemark descripton property
p_styleurl	optional value for placemark styleurl property
p_pretty_print	optional flag to produce XML in pretty printed format
p_2d_flag	optional flag to remove 3D information from input geometry
p_prune_number	optional value to prune all geometry vertice precision
p_extrude	value to set for extrude in geometry, default is 'false'
p_tessellate	value to set for tessellate in geometry, default is 'true'
p_altitudemode	value to set for altitudemode in geometry, default is 'clampToGround'

Returns

CLOB value of KML data element

dz_kml_main.error2kml

Function for generating an empty (or optionally not empty) KML placemark suitable for showing error feedback in Google Earth and other KML viewers.

Parameters

p_return_code	return code to show in error message
p_status_message	status message to show in error message
p_error_source	name of the placemark KML element
p_tid	placemark tid value, default is zero
p_error_sdo	optional geometry to pass in the placemark that in some way would be informational to the receiver.

Returns

CLOB value of KML placemark element

dz_kml_main.table2kml

Function for generating a series of KML placemarks for each record in an Oracle table.

Parameters

p_table_name	name of table to convert into KML placemarks.
p_geom_column	column containing the SDO_GEOMETRY to convert into KML
p_name_column	string column containing the value to use for the placemark name attribute
p_attr_columns	comma-delimited list of columns to include in placemark data elements
p_where_clause	where clause to limit selection against the table
p_style_name	styleurl attribute to add to KML placemarks

Returns

CLOB value of KML placemark element

dz_kml_main.table2kml2file

Procedure for generating a series of KML placemarks for each record in an Oracle table and writing the resulting KML to a file in an Oracle directory.

Parameters

p_table_name	name of table to convert into KML placemarks.
p_geom_column	column containing the SDO_GEOMETRY to convert into KML
p_name_column	string column containing the value to use for the placemark name attribute
p_attr_columns	comma-delimited list of columns to include in placemark data elements
p_where_clause	where clause to limit selection against the table
p_style_name	styleurl attribute to add to KML placemarks
p_kml_header	KML header to add before the series of placemarks
p_kml_footer	KML footer to add after the series of placemarks
p_directory	directory to write resulting file, default is LOADING_DOCK
p_filename	filename of resulting KML file, default is kmldump.kml

Returns

Nothing