

DZ_SDOTXT

- Build ID: 5
- TFS Change Set: 8325

Utilities for the conversion and inspection of Oracle Spatial objects as text.

Summary

DZ_SDOTXT

FUNCTIONS

<code>dz_sdotxt_main.sdo2sql</code>	Utility to convert an Oracle Spatial object into text format.
<code>dz_sdotxt_main.sdo2sql_nvl</code>	Utility to convert an Oracle Spatial object into text format with an NVL option to return a given output when input is NULL.
<code>dz_sdotxt_main.dump_string_endpoints</code>	Utility to convert to text the ordinates of the endpoints of a given linestring.
<code>dz_sdotxt_main.dump_string_endpoints</code>	Utility to convert to text the ordinates of the endpoints of two linestrings.
<code>dz_sdotxt_main.dump_sdo_subelements</code>	Utility to convert to text the component objects of a geometry collection.
<code>dz_sdotxt_main.dump_single_point_ordinate</code>	Utility to extract a given ordinate from within a MDSYS.SDO_GEOMETRY.
<code>dz_sdotxt_main.dump_mbr</code>	Utility to convert to text the MBR surrounding a given geometry object.
<code>dz_sdotxt_main.label_ordinates</code>	Utility to convert all vertices in a geometry into a pipelined flow of points labelled by vertex number.
<code>dz_sdotxt_main.label_measures</code>	Utility to convert all vertices in a geometry into a pipelined flow of points labelled by LRS measure value.
<code>dz_sdotxt_main.break_2499</code>	Utility to take a very long sdo text representation and add linefeeds to meet the sqlplus 2499 character length restrictions.

FUNCTIONS

`dz_sdotxt_main.sdo2sql`

Utility to convert an Oracle Spatial object into text format.

Parameters

<code>p_input</code>	object to convert to text format
<code>p_2d_flag</code>	optional TRUE/FALSE flag to remove any third or fourth dimensions on geometries before text conversion.
<code>p_output_srid</code>	optional srid to transform geometries to before text conversion.
<code>p_pretty_print</code>	optional pretty print indent value

Returns

CLOB text value representing an Oracle Spatial object.

Notes

- Input objects include MDSYS.SDO_GEOMETRY, MDSYS.SDO_GEOMETRY_ARRAY, MDSYS.SDO_POINT_TYPE, MDSYS.SDO_ELEM_INFO_ARRAY, MDSYS.SDO_ORDINATE_ARRAY and MDSYS.SDO_DIM_ARRAY.

`dz_sdotxt_main.sdo2sql_nvl`

Utility to convert an Oracle Spatial object into text format with an NVL option to return a given output when input is NULL.

Parameters

p_input	MDSYS.SDO_GEOMETRY to convert to text format.
p_is_null	value to return if input object is NULL.
p_2d_flag	optional TRUE/FALSE flag to remove any third or fourth dimensions on geometry before text conversion.
p_output_srid	optional srid to transform geometry to before text conversion.
p_pretty_print	optional pretty print indent value

Returns

CLOB text value representing an Oracle Spatial object.

dz_sdotxt_main.dump_string_endpoints

Utility to convert to text the ordinates of the endpoints of a given linestring.

Parameters

p_input	MDSYS.SDO_GEOMETRY to convert endpoints to ordinates as text.
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Returns

VARCHAR2 text value showing the ordinates of the endpoints of a linestring.

dz_sdotxt_main.dump_string_endpoints

Utility to convert to text the ordinates of the endpoints of two linestrings.

Parameters

p_input_1	MDSYS.SDO_GEOMETRY convert endpoints to ordinates as text.
p_input_2	MDSYS.SDO_GEOMETRY convert endpoints to ordinates as text.

Returns

VARCHAR2 text value showing the ordinates of the endpoints of two linestrings.

dz_sdotxt_main.dump_sdo_subelements

Utility to convert to text the component objects of a geometry collection.

Parameters

p_input	MDSYS.SDO_GEOMETRY collection to convert to text as individual objects.
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Returns

CLOB text value of the individual components.

dz_sdotxt_main.dump_single_point_ordinate

Utility to extract a given ordinate from within a MDSYS.SDO_GEOMETRY.

Parameters

p_input	MDSYS.SDO_GEOMETRY from which to extract a given ordinate.
p_vertice_type	Either X, Y, Z or M.
p_vertice_position	vertice position in the geometry, default is 1.

Returns

NUMBER value of the ordinate.

dz_sdotxt_main.dump_mbr

Utility to convert to text the MBR surrounding a given geometry object.

Parameters

p_input	MDSYS.SDO_GEOMETRY to which derive the MBR to dump to text.
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Returns

VARCHAR2 text value of the converted MBR.

dz_sdotxt_main.label_ordinates

Utility to converts all vertices in a geometry into a pipelined flow of points labelled by vertice number.

Parameters

p_input	MDSYS.SDO_GEOMETRY to convert to labeled points.
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Returns

PIPELINED table of dz_sdotxt_labeled objects.

dz_sdotxt_main.label_measures

Utility to converts all vertices in a geometry into a pipelined flow of points labelled by LRS measure value.

Parameters

p_input	MDSYS.SDO_GEOMETRY to convert to labeled points.
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Returns

PIPELINED table of dz_sdotxt_labeled objects.

dz_sdotxt_main.break_2499

Utility to take a very long sdo text representation and add linefeeds to meet the sqlplus 2499 character length restrictions.

Parameters

p_input	CLOB of sdo object representation.
p_delim_character	delimiter to add to input, default is linefeed chr(10).
p_break_character	character upon which to add a delimiter, default is comma.
p_break_point	character count near which to add delimiters, default is sqlplus 2499 limit.

Returns

CLOB with breaking characters added after commas.