

# DZ\_SDOTXT

- Build ID: 4
- TFS Change Set: 8321

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.

## 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 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.

#### 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.

#### 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.

#### Returns

PIPELINED table of `dz_sdotxt_labeled` objects.