DZ JSON

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Utility for the creation of JSON and GeoJSON from Oracle data types and structures. Support for the deserialization of JSON is not implemented.

Summary

Functions	
dz_json_main. geojson2sdo	Unimplemented function to convert GeoJSON into SDO_GEOMETRY.
dz_json_main. sdo2geojson	Function to convert SDO_GEOMETRY into GeoJSON geometry object.
dz_json_main.sdo2bbox	Function to convert SDO_GEOMETRY into four ordinate JSON array of [minx,miny,max,maxy]
dz_json_main. sdo2geojson feature	Function to convert SDO_GEOMETRY into a GeoJSON feature object.
dz json main.fastname	Utility function to format a json name attribute.
dz json main.json format	Utility function to format a json name attribute.
dz json main.value2json	Utility function to format a json named attribute.
dz_json_main.	Utility function to wrap a preformatted JSON value with an
formatted2json	attribute name.
dz_json_main. empty_scalar2json	Utility function to create a null JSON attribute.
dz_json_main. empty scalar2json	Utility function to create an empty JSON array attribute.

FUNCTIONS

dz_json_main.geojson2sdo

Unimplemented function to convert GeoJSON into SDO_GEOMETRY. The plan as much as there is one is to implement this using Oracle 12c JSON toolset.

Parameters

p_input GeoJSON geometry as CLOBp srid Optional SRID value to apply to resulting SDO GEOMETRY.

Returns

MDSYS.SDO GEOMETRY spatial type

Notes

• If no SRID is provided, then the resulting SDO_GEOMETRY will receive WGS84 geodetic SRID 8307 per GeoJSON specifications.

dz_json_main.sdo2geojson

Function to convert SDO_GEOMETRY into GeoJSON geometry object. Currently supports simple point, linestring, polygon, multipoint, point cluster, multilinestring, multipolygon and collection geometry types. As GeoJSON does not currently support complex curve geometries, use SDO_ARC_DENSIFY to densify any such geometries before using this function.

Parameters

p_input SDO_GEOMETRY

p_pretty_print Optional JSON formatter.

p_2d_flag Optional TRUE/FALSE flag to remove 3rd and 4th dimensions.

p_prune_number Optional length to truncate precision of ordinates.

Returns

CLOB of GeoJSON geometry object

Notes

• Leave pretty print value NULL to output compact JSON. Use zero for pretty print formatting. Larger values will continually indent the JSON three spaces to the right.

dz_json_main.sdo2bbox

Function to convert SDO_GEOMETRY into four ordinate JSON array of [minx,miny,max,maxy]

Parameters

p_input SDO_GEOMETRY

p_prune_number Optional length to truncate precision of ordinates.

Returns

CLOB of JSON array of four bbox ordinates

dz_json_main.sdo2geojson_feature

Function to convert SDO GEOMETRY into a GeoJSON feature object.

Parameters

p input SDO GEOMETRY

p_pretty_print Optional JSON formatter.

p_2d_flag Optional TRUE/FALSE flag to remove 3rd and 4th dimensions.

p_prune_number Optional length to truncate precision of ordinates.
p_add_bbox Optional TRUE/FALSE flag to add bbox element.

p properties Optional properties to add to the output.

Returns

CLOB of GeoJSON feature object

Notes

- Leave pretty print value NULL to output compact JSON. Use zero for pretty print formatting. Larger values will continually indent the JSON three spaces to the right.
- Properties must be provided as valid CLOB of GeoJSON properties array.

dz json main.fastname

Utility function to format a json name attribute.

Parameters

p_name name for JSON attribute. p_pretty_print Optional JSON formatter.

Returns

VARCHAR2 snippet for JSON attribute name

dz json main.json format

Utility function to format a json name attribute.

Parameters

p_input value to format as JSON.

p_quote_strings Optional TRUE/FALSE flag whether to quote the JSON value.

Returns

VARCHAR2 snippet for JSON attribute name.

Notes

• Input values may be VARCHAR2, NUMBER, DATE or CLOB.

dz_json_main.value2json

Utility function to format a json named attribute.

Parameters

p_name JSON attribute name value to format as JSON.
p pretty print Optional JSON formatter.

Returns

CLOB of JSON attribute.

Notes

 Input values may be VARCHAR2, NUMBER, DATE, CLOB, MDSYS.SDO_STRING2_ARRAY or MDSYS.SDO_NUMBER_ARRAY.

dz_json_main.formatted2json

Utility function to wrap a preformatted JSON value with an attribute name.

Parameters

p_name JSON attribute name

p_input JSON value (preformatted as proper JSON).

p_pretty_print Optional JSON formatter.

Returns

CLOB of JSON attribute.

dz_json_main.empty_scalar2json

Utility function to create a null JSON attribute.

Parameters

p_name JSON attribute name

p_comma_flag optional TRUE/FALSE flag to add a trailing comma to results.

p_pretty_print Optional JSON formatter.

Returns

VARCHAR2 of null JSON attribute.

dz_json_main.empty_scalar2json

Utility function to create an empty JSON array attribute.

Parameters

p_name JSON attribute name

p_comma_flag optional TRUE/FALSE flag to add a trailing comma to results.

p_pretty_print Optional JSON formatter.

Returns

VARCHAR2 of null JSON attribute.