

# dz\_json\_deploy.sql

## Summary

### dz\_json\_deploy.sql

#### CONSTANTS

dz_json_constants.	Flag to control whether to escape forward slashes.
c_json_unescaped_slashes	
dz_json_constants.	Flag to control escaping of unicode characters into /u format.
c_json_unescaped_unicode	
dz_json_constants.	Flag to control whether to escape all non-ascii characters into /u format.
c_json_escape_all_nonascii	

#### FILES

##### DZ\_JSON

#### 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.formatted2json	Utility function to wrap a preformatted JSON value with an 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.

## CONSTANTS

### dz\_json\_constants.c\_json\_unescaped\_slashes

Flag to control whether to escape forward slashes. Certain libraries may or may not require such escaping.

### dz\_json\_constants.c\_json\_unescaped\_unicode

Flag to control escaping of unicode characters into /u format. Set to TRUE to leave all unicode text as received. Note this is not recommended for most JSON handling.

### dz\_json\_constants.c\_json\_escape\_all\_nonascii

Flag to control whether to escape all non-ascii characters into /u format. May be helpful for certain character sets or use cases.

## FILES

### DZ\_JSON

- Release: 2.1
- Commit Date: Wed Mar 27 13:38:19 2019 -0400

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

## 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 CLOB

p_srid	Optional SRID value to apply to resulting SDO_GEOMETRY.
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### 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
p_input	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
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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.