# **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**

DZ_JSON -	
UNCTIONS	
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.

# **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.