

Oracle NoSQL Database

- 18.3 New Features

- Oct, 2018

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Oracle NoSQL Database – 18.3 New Features

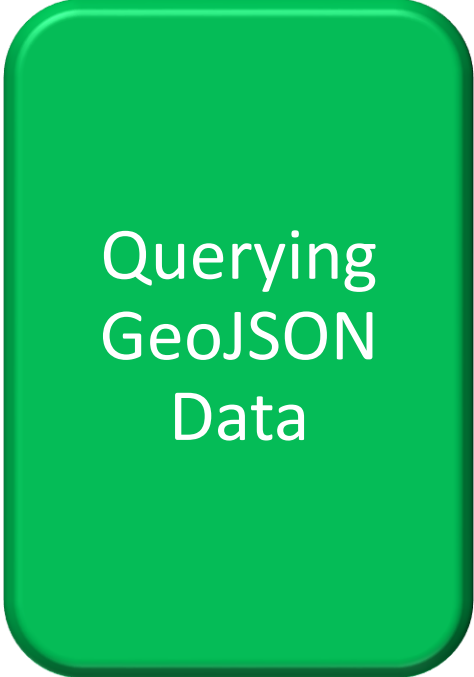
Querying
GeoJSON
Data

Identity
Column

Namespaces

Admin Web
Service

Oracle NoSQL Database – 18.3 New Features



Querying
GeoJSON
Data

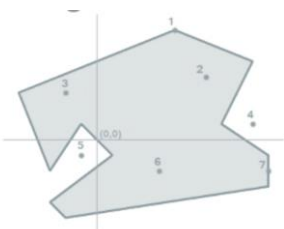
Oracle NoSQL Database – GeoJSON Query Function

- Geo- Data
 - GeoJSON standard – RFC 7946
 - Points, lines, and polygons
 - Intersection, containment, within distance

● {"type": "Point", "coordinates": [100.0, 0.0]}

● — ● {"type": "LineString", "coordinates": [[100.0, 0.0], [101.0, 1.0]]}

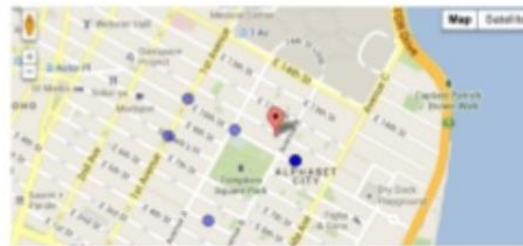
```
{
  "type": "Polygon",
  "coordinates": [
    [ [100.0, 0.0], [101.0, 0.0],
      [101.0, 1.0], [100.0, 1.0], [100.0, 0.0] ]
  ]
}
```



Geo_Inside



Geo_intersect



Geo_near

Find NATURE PARKS in northern California

```
SELECT t.poi as park
FROM PointsOfInterest t
WHERE t.poi.kind = "nature park" and
      geo_intersect(t.poi.location,
                    { "type" : "polygon",
                      "coordinates" : [
                        [
                          [121.94, 36.28],
                          [117.52, 37.38],
                          [119.99, 39.00],
                          [120.00, 41.97],
                          [124.21, 41.97],
                          [124.39, 40.42],
                          [121.94, 36.28]
                        ]
                      ]
                    })
```

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Identity
Column

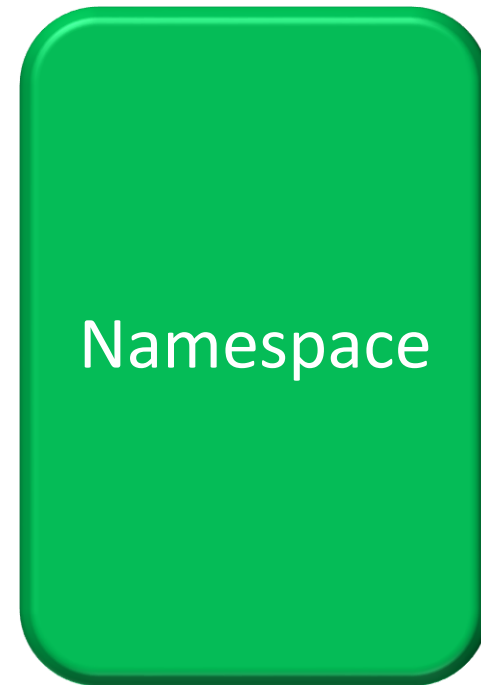
Oracle NoSQL Database – IDENTITY column

- Identity column
- Primary Keys automatically generated
- Increment or decrement a counter
- Works with both API and SQL

```
CREATE Table USERS (id INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1 INCREMENT BY 1),  
name STRING,  
PRIMARY KEY (id))
```

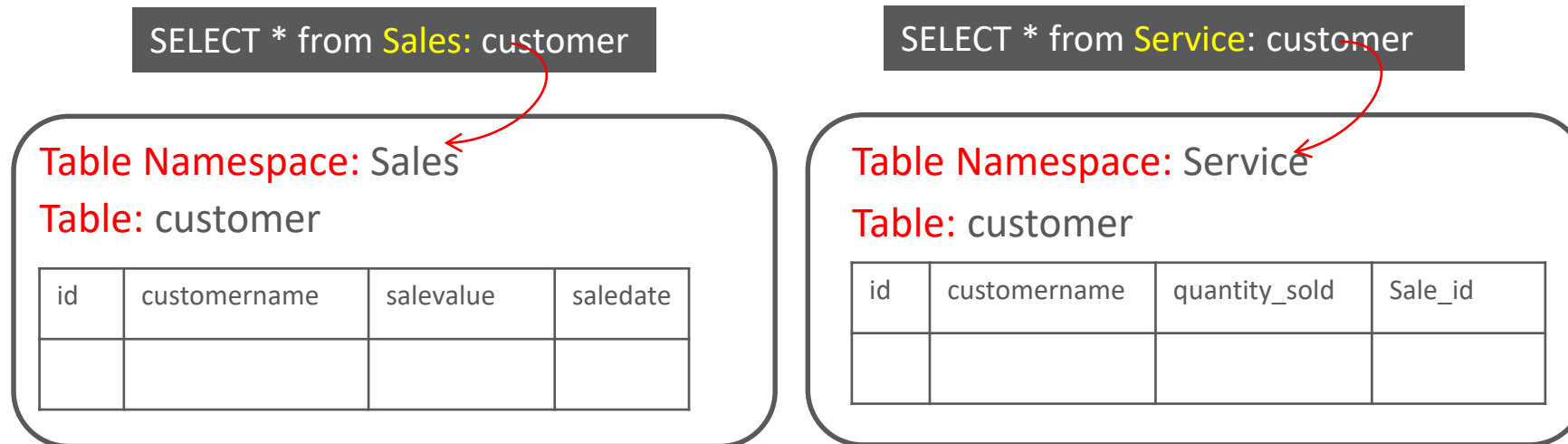
```
TableAPI api = store.getTableAPI();  
Table table = api.getTable("foo");  
Row row = table.createRow();  
row.put("name", "joe");  
api.put(row, null, null);  
System.out.println("Value :" + row.get("id")); //Prints 1  
row = table.createRow();  
row.put("name", "smith");  
api.put(row, null, null);  
System.out.println("Value :" + row.get("id")); //Prints 2
```

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Oracle NoSQL Database - Namespace

- Create custom containers of tables
- All objects within namespaces must be uniquely identified.
- Manage authorization at container level
- Import/export at container level



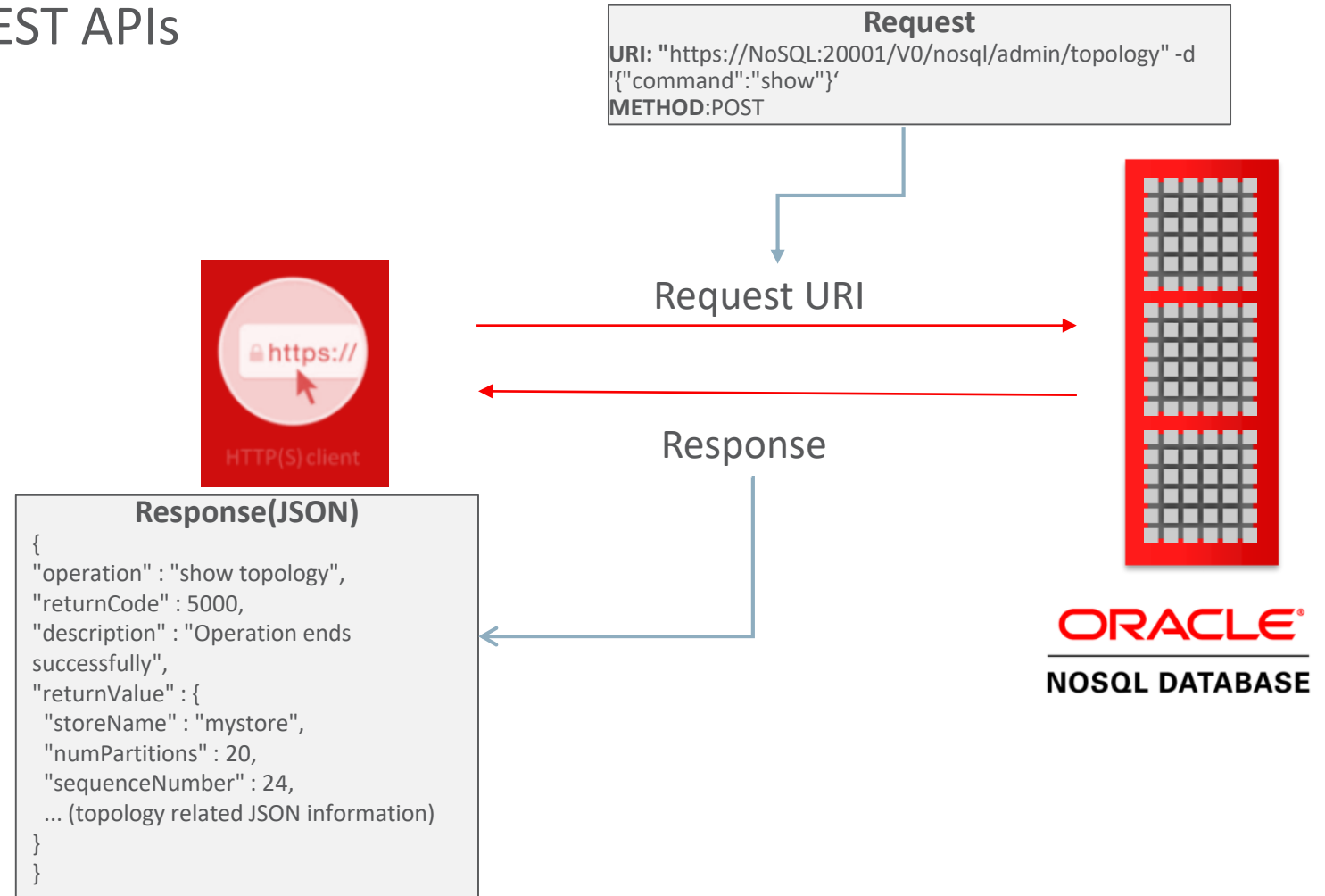
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Admin Web
Service

Oracle NoSQL Database – Admin Web Service

- Admin operations available via REST APIs and CLI
- HTTP Based
 - GET
 - PUT
 - DELETE
 - POST
- Payload
 - JSON
- SSL Encrypted



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