

# Strange behaviour of the queryFeature method of feature layers

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The web application uses the Javascript 3.1 API consuming ArcGIS server 10. The data are stored into Oracle Spatial and accessed as an SDELayer registered on top of an Oracle view. The primary key of the view is the ID\_REC field, the OBJECT\_ID might be duplicated due to the JOIN clauses in the view DDL.

The piece of code below performs a query to a feature layer to get the data for plotting a chart and filling a grid. It throws a “duplicate identifier” error when filling the grid. It seems a

```
/**
 * Chart initialization and rendering
 */
function initChart(fullscreen)
{
    var query = new esri.tasks.Query();
    query.where = filtro.getQuery();
    query.timeExtent = new esri.TimeExtent(new Date(filtro.startRange.getTime() -
(24 * 60 * 60 * 1000)),new Date(filtro.endRange.getTime() + (24 * 60 * 60 * 1000)));
    //query.orderByFields = ["TIME_SLIDER DESC"];

    outbreaksFeatureLayer.queryFeatures(query,
        function(featureSet){
            if (featureSet.features.length >=0){
                console.log("Preparing data for the store");
                var items = dojo.map(featureSet.features,
                    function(feature){
                        return feature.attributes;
                    });

                otbGridData = {
                    identifier:"ID_REC",
                    label: "ID_REC",
                    items:items
                };

                var store = new dojo.data.ItemFileReadStore({data:otbGridData});
                grd0tb.setStore(store);
                grd0tb.setQuery({ID_REC:'*'});

                .....
            }
        });
}
```

strange behaviour, probably due to the parsing function of the JSON returned by the server.

The query issued to the server produces a correct JSON response. As shown in the two following pictures (screenshots of the Firebug window), the elements 559 and 560 of the JSON object has unique values for the ID\_REC and duplicated values for the OBJECTID. Please note that also the other fields have different values.

▼ 559

▼ attributes

ID\_REC  
OBJECTID  
STAT\_LEVEL\_  
COUNTRY\_N  
REG\_NAME  
ADMIN\_NAME  
GEO\_ID  
ID\_DISEASES\_DISTRIBUTION  
ID\_OUTBREAK  
OUTBREAK\_TYPE  
DATE\_OF\_START\_OF\_THE\_EVENT  
ANNO\_SOSPETTO  
MESE\_SOSPETTO  
DATE\_OF\_1ST\_CONFIRMATION  
LATITUDE  
LONGITUDE  
DISEASE\_DESC  
DESC\_SUBTYPE  
DESC\_SOURCE  
SOURCE\_TYPE  
NUM\_SUSCEPTIBLE  
NUM\_CASES\_OUTB\_SPE  
NUM\_DEATHS  
NUM\_DESTROYED  
NUM\_SLAUGHTERED  
DESC\_SPECIE  
TIME\_SLIDER

► geometry

Object { attributes={...}, geometry={...} }

Object { ID\_REC=568, OBJECTID=536, STAT\_LEVEL=3, more... }

568

536

3

"FRANCE"

"PROVENCE-ALPES-COTE D AZUR"

"VAR"

1230

67

"FR-2003-40-2"

"Clinical"

1064966400000

2003

10

1064966400000

43.21

6.37

"WND"

*null*

"ARTICLE"

"UNOFFICIAL"

0

306

0

0

0

"HORSE AND OTHER EQUINES"

1064966400000

Object { x=709105.1563531532, y=5343990.809174863 }

▼ 560	Object { attributes={...}, geometry={...} }
▼ attributes	Object { ID_REC=569, OBJECTID=536, STAT_LEVL_=3, more... }
ID_REC	569
OBJECTID	536
STAT_LEVL_	3
COUNTRY_N	"FRANCE"
REG_NAME	"PROVENCE-ALPES-COTE D AZUR"
ADMIN_NAME	"VAR"
GEO_ID	1230
ID_DISEASES_DISTRIBUTION	67
ID_OUTBREAK	"FR-2003-40-2"
OUTBREAK_TYPE	"Clinical"
DATE_OF_START_OF_THE_EVENT	1064966400000
ANNO_SOSPETTO	2003
MESE_SOSPETTO	10
DATE_OF_1ST_CONFIRMATION	1064966400000
LATITUDE	43.21
LONGITUDE	6.37
DISEASE_DESC	"WND"
DESC_SUBTYPE	<i>null</i>
DESC_SOURCE	"ARTICLE"
SOURCE_TYPE	"UNOFFICIAL"
NUM_SUSCEPTIBLE	0
NUM_CASES_OUTB_SPE	1
NUM_DEATHS	0
NUM_DESTROYED	0
NUM_SLAUGHTERED	0
DESC_SPECIE	"HUMANS"
TIME_SLIDER	1064966400000
► geometry	Object { x=709105.1563531532, y=5343990.809174863 }

Looking to the same two objects after the parsing of the queryFeatures has completed we see that the two features has become the same object. The two features as in the parsed object returned as parameter to the call-back function of the queryFeatures, are shown in the two figures below. The second object is now a clone of the first.

```

▼ 559 Object { geometry={...}, attributes={...}, _graphicsLayer={...}, more... }
  _count 2
  ▶ _extent Object { type="extent", xmin=709105.1563531532, ymin=5343990.809174863, more... }
  ▶ _graphicsLayer Object { url="http://maps.izs.it/arcg...WNF/WNF_MAP/MapServer/1", _url={...}, _div={...}, more... }
  ▶ _shape Object { rawNode=image, shape={...}, matrix={...}, more... }
  _visible true
▼ attributes Object { ID_REC=[1], OBJECTID=[1], STAT_LEVEL=[1], more... }
  ▶ ADMIN_NAME [ "VAR" ]
  ▶ ANNO_SOSPETTO [ 2003 ]
  ▶ COUNTRY_N [ "FRANCE" ]
  ▶ DATE_OF_1ST_CONFIRMATION [ 1064966400000 ]
  ▶ DATE_OF_START_OF_THE_EVENT [ 1064966400000 ]
  ▶ DESC_SOURCE [ "ARTICLE" ]
  ▶ DESC_SPECIE [ "HORSE AND OTHER EQUINES" ]
  ▶ DESC_SUBTYPE [ null ]
  ▶ DISEASE_DESC [ "WND" ]
  ▶ GEO_ID [ 1230 ]
  ▶ ID_DISEASES_DISTRIBUTION [ 67 ]
  ▶ ID_OUTBREAK [ "FR-2003-40-2" ]
  ▶ ID_REC [ 568 ]
  ▶ LATITUDE [ 43.21 ]
  ▶ LONGITUDE [ 6.37 ]
  ▶ MESE_SOSPETTO [ 10 ]
  ▶ NUM_CASES_OUTB_SPE [ 306 ]
  ▶ NUM_DEATHS [ 0 ]
  ▶ NUM_DESTROYED [ 0 ]
  ▶ NUM_SLAUGHTERED [ 0 ]
  ▶ NUM_SUSCEPTIBLE [ 0 ]
  ▶ OBJECTID [ 536 ]
  ▶ OUTBREAK_TYPE [ "Clinical" ]
  ▶ REG_NAME [ "PROVENCE-ALPES-COTE D AZUR" ]
  ▶ SOURCE_TYPE [ "UNOFFICIAL" ]
  ▶ STAT_LEVEL_ [ 3 ]
  ▶ TIME_SLIDER [ 1064966400000 ]
  ..

```

```

▼ 560 Object { geometry={...}, attributes={...}, _graphicsLayer={...}, more... }
  _count 2
  ▶ _extent Object { type="extent", xmin=709105.1563531532, ymin=5343990.809174863, more... }
  ▶ _graphicsLayer Object { url="http://maps.izs.it/arcg...WNF/WNF_MAP/MapServer/1", _url={...}, _div={...}, more... }
  ▶ _shape Object { rawNode=image, shape={...}, matrix={...}, more... }
  _visible true
  ▼ attributes Object { ID_REC=[1], OBJECTID=[1], STAT_LEVL_=[1], more... }
    ▶ ADMIN_NAME [ "VAR" ]
    ▶ ANNO_SOSPETTO [ 2003 ]
    ▶ COUNTRY_N [ "FRANCE" ]
    ▶ DATE_OF_1ST_CONFIRMATION [ 1064966400000 ]
    ▶ DATE_OF_START_OF_THE_EVENT [ 1064966400000 ]
    ▶ DESC_SOURCE [ "ARTICLE" ]
    ▶ DESC_SPEICIE [ "HORSE AND OTHER EQUINES" ]
    ▶ DESC_SUBTYPE [ null ]
    ▶ DISEASE_DESC [ "WND" ]
    ▶ GEO_ID [ 1230 ]
    ▶ ID_DISEASES_DISTRIBUTION [ 67 ]
    ▶ ID_OUTBREAK [ "FR-2003-40-2" ]
    ▶ ID_REC [ 568 ]
    ▶ LATITUDE [ 43.21 ]
    ▶ LONGITUDE [ 6.37 ]
    ▶ MESE_SOSPETTO [ 10 ]
    ▶ NUM_CASES_OUTB_SPE [ 306 ]
    ▶ NUM_DEATHS [ 0 ]
    ▶ NUM_DESTROYED [ 0 ]
    ▶ NUM_SLAUGHTERED [ 0 ]
    ▶ NUM_SUSCEPTIBLE [ 0 ]
    ▶ OBJECTID [ 536 ]
    ▶ OUTBREAK_TYPE [ "Clinical" ]
    ▶ REG_NAME [ "PROVENCE-ALPES-COTE D AZUR" ]
    ▶ SOURCE_TYPE [ "UNOFFICIAL" ]
    ▶ STAT_LEVL_ [ 3 ]
    ▶ TIME_SLIDER [ 1064966400000 ]

```

The definition of the feature layer fields, as returned by the server in the JSON object is shown below. The OBJECTID has still the type of OID while the real primary key is ID\_REC.

```

▶ 0 Object { name="ID_REC", type="esriFieldTypeDouble", alias="ID_REC" }
▶ 1 Object { name="OBJECTID", type="esriFieldTypeOID", alias="OBJECTID" }
▶ 2 Object { name="STAT_LEVL_", type="esriFieldTypeSmallInteger", alias="STAT_LEVL_" }
▶ 3 Object { name="COUNTRY_N", type="esriFieldTypeString", alias="COUNTRY_N", more... }
▶ 4 Object { name="REG_NAME", type="esriFieldTypeString", alias="REG_NAME", more... }
▶ 5 Object { name="ADMIN_NAME", type="esriFieldTypeString", alias="ADMIN_NAME", more... }
▶ 6 Object { name="GEO_ID", type="esriFieldTypeInteger", alias="GEO_ID" }
▶ 7 Object { name="ID_DISEASES_DISTRIBUTION", type="esriFieldTypeInteger", alias="ID_DISEASES_DISTRIBUTION" }
▶ 8 Object { name="ID_OUTBREAK", type="esriFieldTypeString", alias="ID_OUTBREAK", more... }

```