QGIS Application - Bug report #12230
Problem with spatial index detection on oracle spatial views

2015-02-20 01:27 AM - Jan Lippmann

Status:	Closed		
Priority:	High		
Assignee:	Jürgen Fischer		
Category:	Data Provider		
Affected QGIS version:	2.6.0	**Regression?:**	No
Operating System:	WIN	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	20418

Description

hello,
qgis don't detect the spatial index for spatial query in Oracle. I do not know if there is a fault in qgis or a problem in my environment. the sql script and the debug log view I have attached. can anyone confirm the problem or give you a hint solution? what's the complete sql statement which raise the ora error:ORA-29902?
hints:

- the srid of all features in OBJEKTLAYER match the srid values in MDSYS.USER_SDO_GEOM_METADATA
- spatial index is valid and the origintable works without index problems...

thanks
jan

oracleserver:
Oracle Database 11g Release 11.2.0.4.0

qgis:
QGIS-Version 2.7.0-Master QGIS-Codeversion aab3bfd
Kompiliert gegen Qt 4.8.5 Laufendes Qt 4.8.5
Kompiliert mit GDAL/OGR 1.11.1 Läuft mit GDAL/OGR 1.11.2
Kompiliert mit GEOS 3.4.2-CAPI-1.8.2 Läuft mit GEOS 3.4.2-CAPI-1.8.2 r3921
PostgreSQL-Client-Version 9.2.4 SpatiaLite-Version 4.1.1
QWT-Version 5.2.3 PROJ.4-Version 480
QScintilla2-Version 2.7.2 Diese QGIS-Kopie schreibt Debugausgaben.

```
--run the script with GIS_ADM user
--use GIS_ADM user within QGIS

--Create table
CREATE TABLE "GIS_ADM"."OBJEKTLAYER"
  (
    "GEOM" "MDSYS"."SDO_GEOMETRY" ,
    "GRUENG6F_O" VARCHAR2(2047 BYTE),
    "ID"        NUMBER(10,0)
  )
  SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE
  (
    INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST
GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT
  )
```

```
  TABLESPACE "USERS" ;
CREATE UNIQUE INDEX "GIS_ADM"."SYS_IL0000095052C00008$$" ON "GIS_ADM"."OBJEKTLAYER"
  (
    PCTFREE 10 INITRANS 2 MAXTRANS 255 STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS
2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
CELL_FLASH_CACHE DEFAULT) TABLESPACE "USERS" PARALLEL (DEGREE 0 INSTANCES 0) ;
CREATE UNIQUE INDEX "GIS_ADM"."SYS_IL0000095052C00007$$" ON "GIS_ADM"."OBJEKTLAYER" ( PCTFREE 10
INITRANS 2 MAXTRANS 255 STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
CELL_FLASH_CACHE DEFAULT) TABLESPACE "USERS" PARALLEL (DEGREE 0 INSTANCES 0) ;

--Insert USER_SDO_GEOM_METADATA for OBJEKTLAYER
INSERT INTO MDSYS.USER_SDO_GEOM_METADATA (
  TABLE_NAME
, COLUMN_NAME
, DIMINFO
, SRID
) VALUES (
  'OBJEKTLAYER'
, 'GEOM'
,  MDSYS.SDO_DIM_ARRAY(
                    MDSYS.SDO_DIM_ELEMENT('X',-2147483648,2147483647,0.00005)
                   ,MDSYS.SDO_DIM_ELEMENT('Y',-2147483648,2147483647,0.00005)
                  )
, 25832
)
;

--create spatial index  on OBJEKTLAYER
  CREATE INDEX "GIS_ADM"."IDX_GEOM" ON "GIS_ADM"."OBJEKTLAYER"
    (
      "GEOM"
    )
    INDEXTYPE IS "MDSYS"."SPATIAL_INDEX" ;

--create simple 1:1 view from the origintable
CREATE OR REPLACE FORCE VIEW "GIS_ADM"."V_OBJEKTLAYER" ("GEOM", "GRUENG6F_O", "ID")
AS
  SELECT "GEOM","GRUENG6F_O","ID" FROM OBJEKTLAYER;

--Insert USER_SDO_GEOM_METADATA for V_OBJEKTLAYER
INSERT INTO MDSYS.USER_SDO_GEOM_METADATA (
  TABLE_NAME
, COLUMN_NAME
, DIMINFO
, SRID
) VALUES (
  'V_OBJEKTLAYER'
, 'GEOM'
,  MDSYS.SDO_DIM_ARRAY(
                    MDSYS.SDO_DIM_ELEMENT('X',-2147483648,2147483647,0.00005)
                   ,MDSYS.SDO_DIM_ELEMENT('Y',-2147483648,2147483647,0.00005)
                  )
```

```
, 25832
)
;
```

Associated revisions

Revision 582d009f - 2015-02-20 11:38 PM - Jürgen Fischer

oracle provider: consider srid when looking trying spatial index (followup 991f94d; fixes #12230)

Revision d001c9d9 - 2015-02-21 11:45 PM - Jürgen Fischer

oracle provider: consider srid when looking trying spatial index (followup 991f94d; fixes #12230)

History

#1 - 2015-02-20 02:39 PM - Jürgen Fischer

- Status changed from Open to Closed

Fixed in changeset commit:"582d009f434260bb0efd9c0914c7f854f856a647".

#2 - 2015-02-23 08:13 AM - Jan Lippmann

hello jürgen,

thank you for the quick fixing. it works. :-)

Files

debug-view-log.txt	5.71 KB	2015-02-20	Jan Lippmann