

ORA-1031 While Creating A View On A Table On Which The Select Privilege Is Granted Via A Role [ID 271587.1]

Applies to:

Oracle Server - Enterprise Edition - Version: 8.1.7.4 to 11.2.0.3 - Release: 8.1.7 to 11.2

Information in this document applies to any platform.

Checked for relevance on 24-Nov-2011

Symptoms

While trying to create a view on a table for which the select privilege is granted via a role the following error occurs:

```
connect / as sysdba
create user A identified by A;
create user B identified by B;
grant connect,resource to A;
grant connect,resource,create any view to B;

create role R;
grant R to B;

connect A/A
create table A (A number);
grant select on A.A to R;

connect B/B
select * from A.A;
no rows selected  =====> Selecting from the table is possible with the
privilege acquired via a role

create view V as select * from A.A;
create view V as select * from A.A
*
ERROR at line 1: =====> Creating a view does not work with the privilege
acquired via a role !!
ORA-1031: insufficient privileges
```

Cause

In order to create a view in a schema, that schema must have the privileges necessary to either select, insert, update, or delete rows from all the tables or views on which the view is

based. The view owner must be granted these privileges directly, rather than through a role. The reason is that privileges granted to roles cannot be inherited via objects, this is explained also in referenced [note 168168.1](#).

Solution

Grant the select privilege on the base table directly rather than through a role:

```
conn A/A  
  
grant select on A.A to B;
```