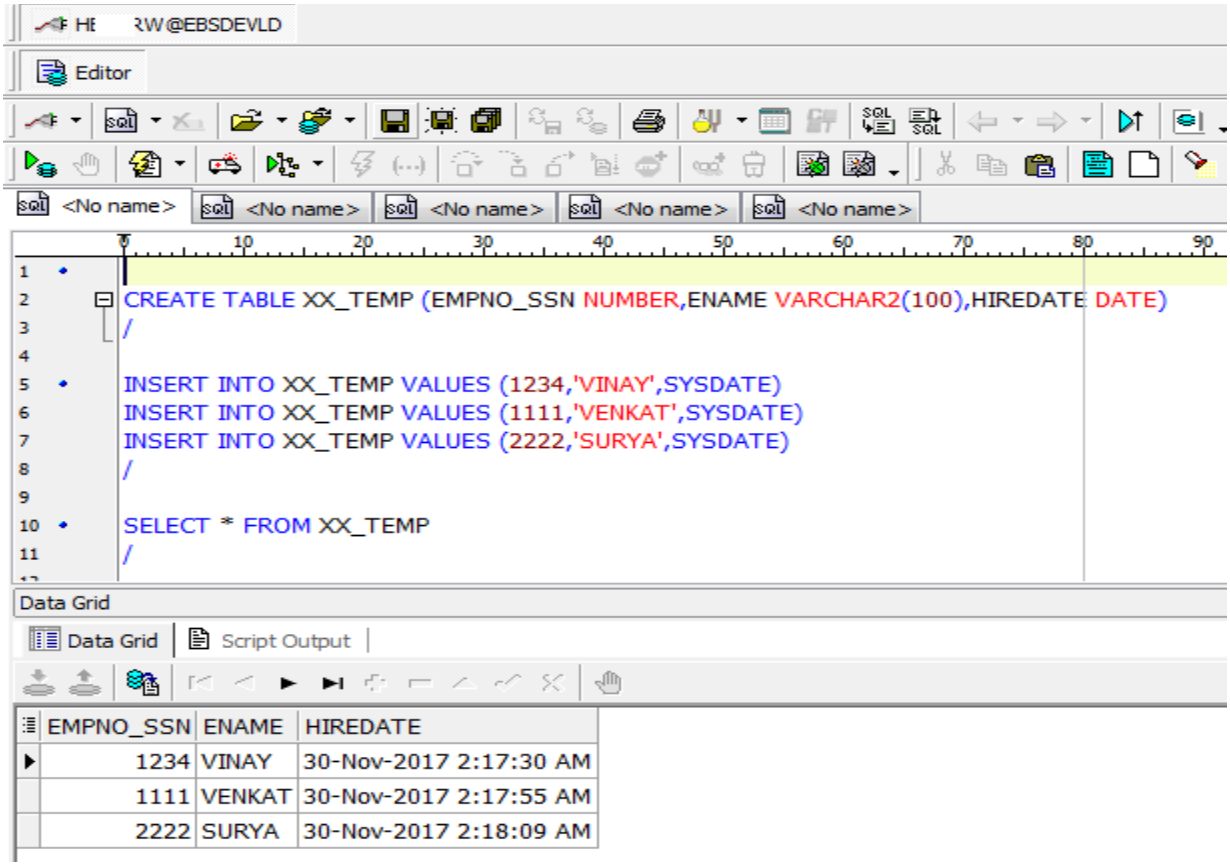
Masking the Data for a Column for a Specific Schema using the RLS Policy

Worked on a specific requirement were in had to Mask/Hide the Data of a specific column while the data was been queried from the Table from a specific schema.

The same is been explained by creating a Table in One Schema which some specific columns here we consider two schema one is our Custom Schema and the other is APPS Schema as below:

Note: Table, Function, DBMS_RLS is executed in Custom Schema



Now we try to Mask the Data of EMPNO_SSN Column of XX_TEMP Table while it is been queried from APPS Schema.

```
CREATE OR REPLACE FUNCTION XX_TEMP_FUNC  (p_owner IN VARCHAR2, p_name IN VARCHAR2)
  RETURN VARCHAR2
AS
BEGIN
  IF SYS_CONTEXT ('userenv', 'session_user') = 'H[redacted]RW' – Custom Schema Name
  THEN
    RETURN NULL;
  ELSE
    RETURN '1=0';
  END IF;
END;
/
```

Setting the Policy using the below standard defined Package

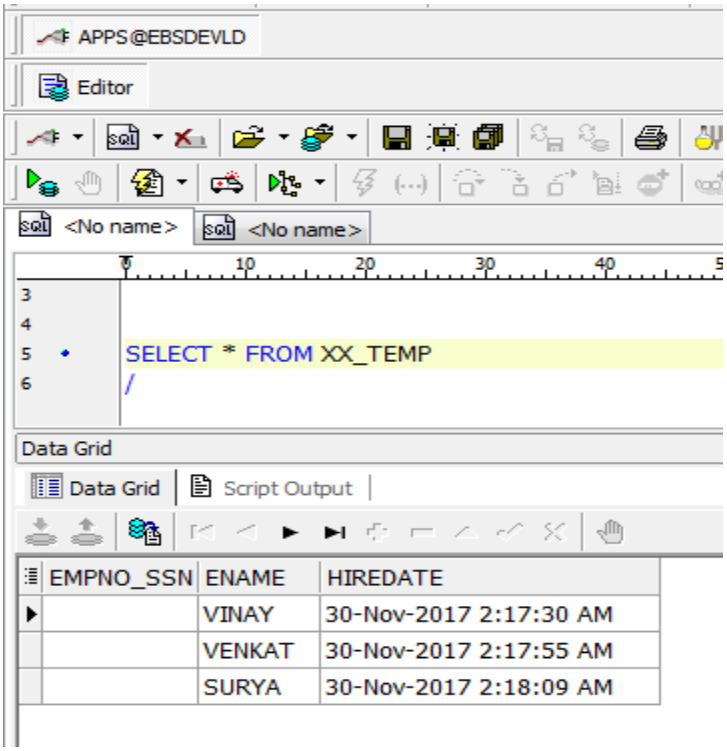
```
BEGIN
    DBMS_RLS.ADD_POLICY(object_schema=>'H[redacted]RW',
            object_name=>'XX_TEMP', --Name of table, view, or synonym to which the policy is added.
            policy_name=>'SEC_SSN',
            function_schema=>'H[redacted]RW',
            policy_function=>'XX_TEMP_FUNC', --Name of a function which generates a predicate for the policy.
             sec_relevant_cols=>'EMPNO_SSN',
             sec_relevant_cols_opt=> dbms_rls.ALL_ROWS);
  END;
  /
```

Note: Any change to the above policy we need to first drop the Policy and then re-create it. The details of the Policy is stored in ALL_POLICIES Table.

For the table that we have created we need to give Grants and Synonyms in APPS Schema

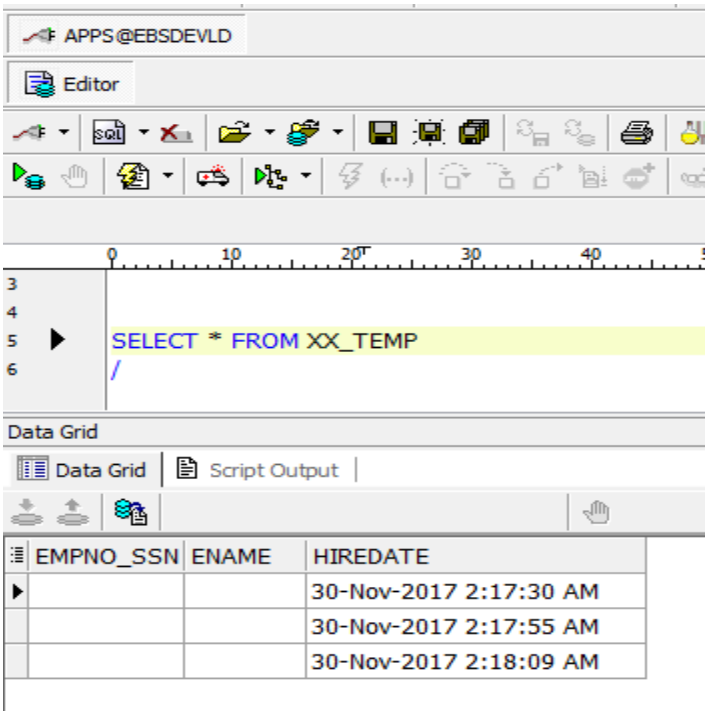
```
GRANT ALL ON XX_TEMP TO APPS
/

CREATE SYNONYM APPS.XX_TEMP FOR H[redacted]RW.XX_TEMP
/
```

Once all the above steps are done when we query the table in APPS here what we see



EMPNO_SSN	ENAME	HIREDATE
	VINAY	30-Nov-2017 2:17:30 AM
	VENKAT	30-Nov-2017 2:17:55 AM
	SURYA	30-Nov-2017 2:18:09 AM

Now masking can also be applied to multiple columns as well.



This ends the Masking/Hiding of Column Data for a specific schema.

Thanks!!!!!!!