Why are there differences in SELECT * FROM XLA_TRANSACTION_ENTITIES and SELECT * FROM XLA.XLA_TRANSACTION_ENTITIES ? [ID 946314.1]

Applies to:

Oracle Payables - Version: 12.0.4
Oracle Subledger Accounting - Version 12.0.0 and later
Information in this document applies to any platform.

Goal

Why are there differences in the number of results returned when running a SELECT query against XLA_TRANSACTION_ENTITIES versus XLA.XLA_TRANSACTION_ENTITIES, given that XLA_TRANSACTION_ENTITIES is a synonym of XLA.XLA_TRANSACTION_ENTITIES ?

Solution

The difference is due to Multi-Org (MO) setups.

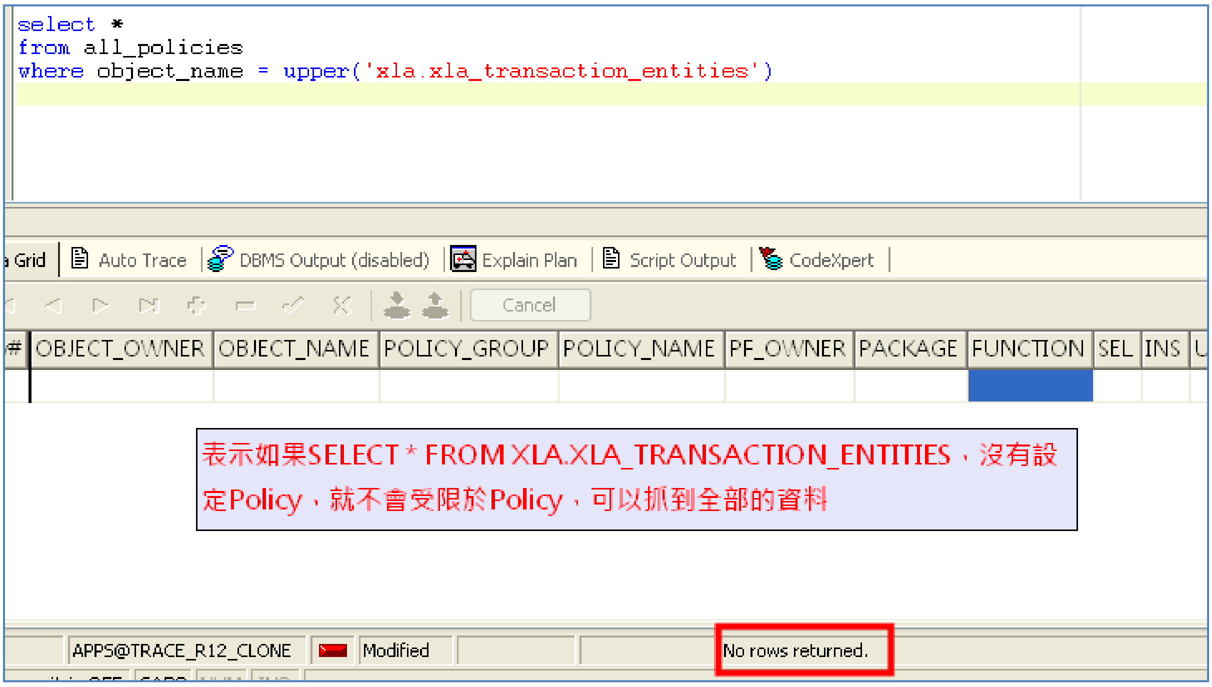
Specifically, R12 MO architecture is based on a new database (DB) feature called *policies*.
This is used this instead of the MO View in 11i and earlier releases.

Basically, with the DB Policies, one can set up the access/security to data on
storage objects, like tables, via synonyms.

For example; one can run the following query

```
select *
from all_policies
where object_name = upper('xla.xla_transaction_entities') ;
```

to fetch data directly from the table.



```
select *
from all_policies
where object_name = upper('xla.xla_transaction_entities')
```

#	OBJECT_OWNER	OBJECT_NAME	POLICY_GROUP	POLICY_NAME	PF_OWNER	PACKAGE	FUNCTION	SEL	INS	U

表示如果SELECT * FROM XLA.XLA_TRANSACTION_ENTITIES，沒有設定Policy，就不會受限於Policy，可以抓到全部的資料

APPS@TRACE_R12_CLONE　Modified　No rows returned.

However, if one uses

select *

from all_policies

where object_name = upper('xla_transaction_entities') ;

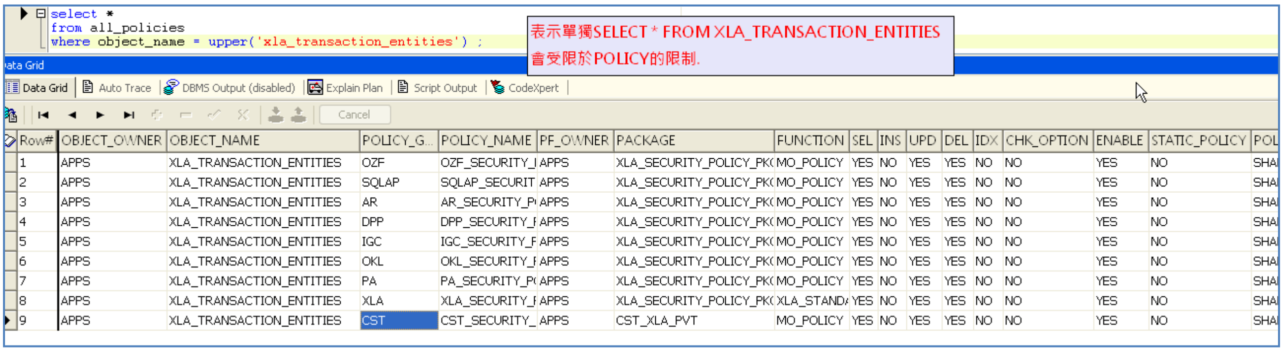
--ie. when not using any schema or using default APPS schema

data is fetched via the synonym.

Then the policies kick in to check with its corresponding function:

XLA_SECURITY_POLICY_PKG.XLA_STANDARD_POLICY or

XLA_SECURITY_POLICY_PKG.MO_POLICY



```
select *
from all_policies
where object_name = upper('xla_transaction_entities') ;
```

表示單獨SELECT * FROM XLA_TRANSACTION_ENTITIES 會受限於POLICY的限制.

Row#	OBJECT_OWNER	OBJECT_NAME	POLICY_G...	POLICY_NAME	PF_OWNER	PACKAGE	FUNCTION	SEL	INS	UPD	DEL	IDX	CHK_OPTION	ENABLE	STATIC_POLICY	POL
1	APPS	XLA_TRANSACTION_ENTITIES	OZF	OZF_SECURITY_I	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
2	APPS	XLA_TRANSACTION_ENTITIES	SQLAP	SQLAP_SECURIT	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
3	APPS	XLA_TRANSACTION_ENTITIES	AR	AR_SECURITY_P	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
4	APPS	XLA_TRANSACTION_ENTITIES	DPP	DPP_SECURITY_I	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
5	APPS	XLA_TRANSACTION_ENTITIES	IGC	IGC_SECURITY_F	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
6	APPS	XLA_TRANSACTION_ENTITIES	OKL	OKL_SECURITY_I	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
7	APPS	XLA_TRANSACTION_ENTITIES	PA	PA_SECURITY_P	APPS	XLA_SECURITY_POLICY_PK(	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA
8	APPS	XLA_TRANSACTION_ENTITIES	XLA	XLA_SECURITY_I	APPS	XLA_SECURITY_POLICY_PK(	XLA_STAND/	YES	NO	YES	YES	NO	NO	YES	NO	SHA
9	APPS	XLA_TRANSACTION_ENTITIES	CST	CST_SECURITY_	APPS	CST_XLA_PVT	MO_POLICY	YES	NO	YES	YES	NO	NO	YES	NO	SHA

causing to add a new condition to the SQL being executed to restrict the data based on

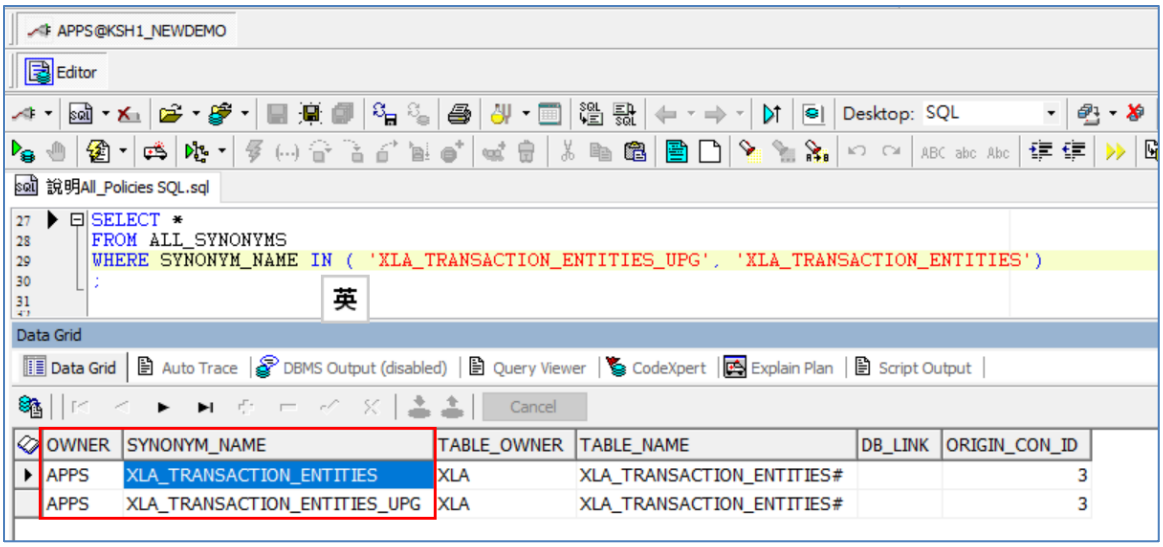
security/MOAC attributes,
like org_id, security_id_int_1, etc; and the current session settings.

One can setup/create new policies.

The best option is to fetch directly from the table if any custom policies are suspected to exist; otherwise, selecting from APPS is OK as long as one understands how the data is being fetched.

【備註】

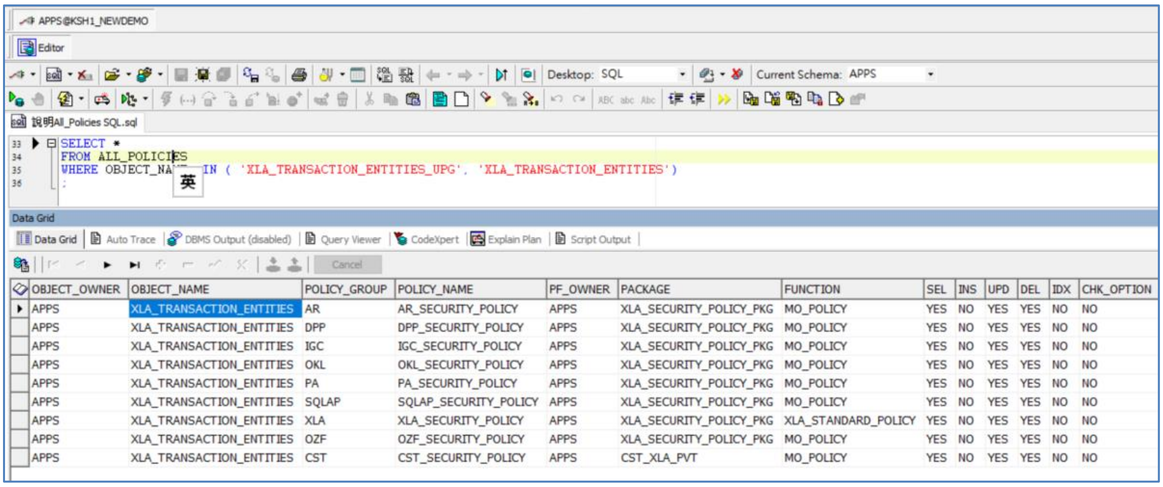
1. 如果不是客製，可以用 xla.XLA_TRANSACTION_ENTITIES；假如是客製，在寫程式過程，每次打開工具要先設定 security 會相對辛苦，可用 XLA_TRANSACTION_ENTITIES_UPG 這個 Synonym;
   它與 apps.XLA_TRANSACTION_ENTITIES synonym 來源相同。



```
SELECT *
FROM ALL_SYNONYMS
WHERE SYNONYM_NAME IN ( 'XLA_TRANSACTION_ENTITIES_UPG', 'XLA_TRANSACTION_ENTITIES')
;
```

OWNER	SYNONYM_NAME	TABLE_OWNER	TABLE_NAME	DB_LINK	ORIGIN_CON_ID
APPS	XLA_TRANSACTION_ENTITIES	XLA	XLA_TRANSACTION_ENTITIES#		3
APPS	XLA_TRANSACTION_ENTITIES_UPG	XLA	XLA_TRANSACTION_ENTITIES#		3

2. 不同的是，標準功能它沒有設定 Policy.

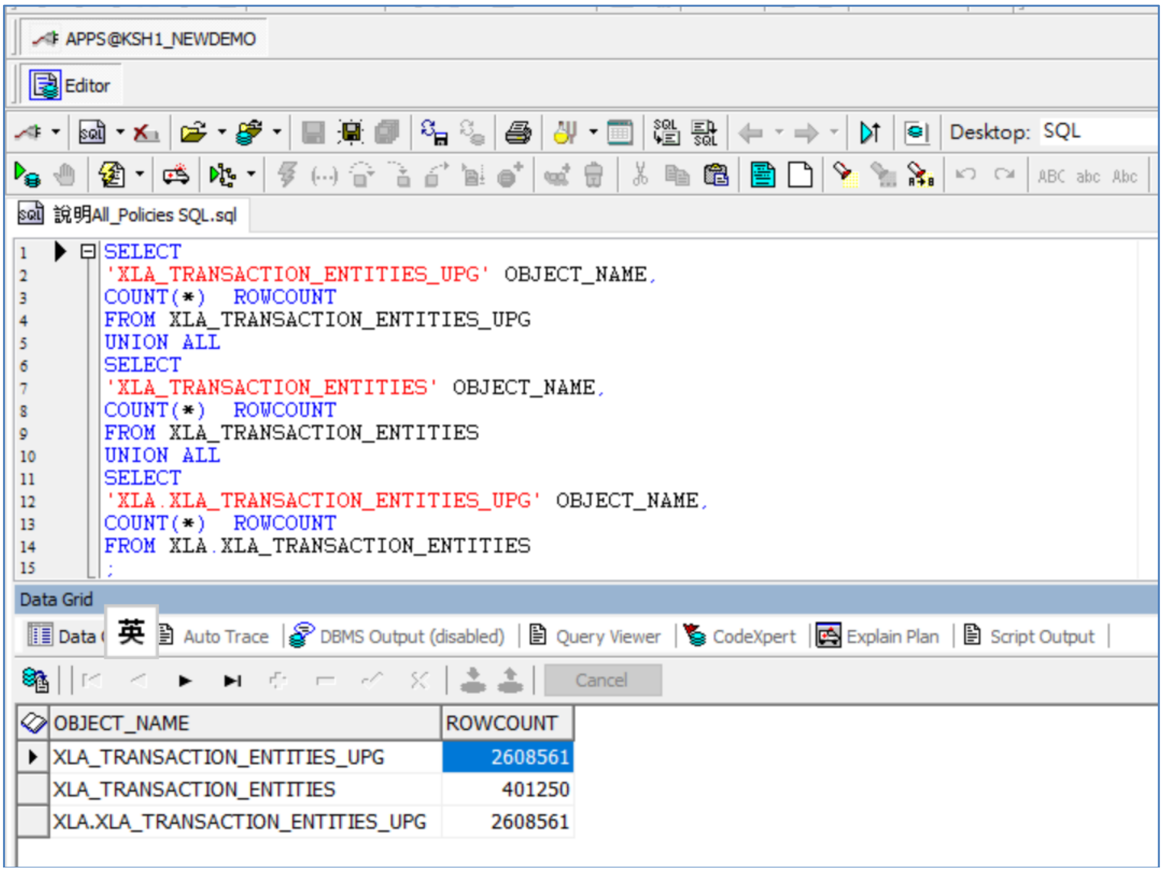


```
SELECT *
FROM ALL_POLICIES
WHERE OBJECT_NA   IN ( 'XLA_TRANSACTION_ENTITIES_UPG', 'XLA_TRANSACTION_ENTITIES')
;
```

OBJECT_OWNER	OBJECT_NAME	POLICY_GROUP	POLICY_NAME	PF_OWNER	PACKAGE	FUNCTION	SEL	INS	UPD	DEL	IDX	CHK_OPTION
APPS	XLA_TRANSACTION_ENTITIES	AR	AR_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	DPP	DPP_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	IGC	IGC_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	OKL	OKL_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	PA	PA_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	SQLAP	SQLAP_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	XLA	XLA_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	XLA_STANDARD_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	OZF	OZF_SECURITY_POLICY	APPS	XLA_SECURITY_POLICY_PKG	MO_POLICY	YES	NO	YES	YES	NO	NO
APPS	XLA_TRANSACTION_ENTITIES	CST	CST_SECURITY_POLICY	APPS	CST_XLA_PVT	MO_POLICY	YES	NO	YES	YES	NO	NO

3. 抓筆數比較就會比較清楚，如以下畫面。
   用 apps login, XLA_TRANSACTION_ENTITIES_UPG 與 xla. XLA_TRANSACTION_ENTITIES 的筆數會相同;

只寫 XLA_TRANSACTION_ENTITIES 筆數就會比較少。



```
SELECT
'XLA_TRANSACTION_ENTITIES_UPG' OBJECT_NAME,
COUNT(*)  ROWCOUNT
FROM XLA_TRANSACTION_ENTITIES_UPG
UNION ALL
SELECT
'XLA_TRANSACTION_ENTITIES' OBJECT_NAME,
COUNT(*)  ROWCOUNT
FROM XLA_TRANSACTION_ENTITIES
UNION ALL
SELECT
'XLA.XLA_TRANSACTION_ENTITIES_UPG' OBJECT_NAME,
COUNT(*)  ROWCOUNT
FROM XLA.XLA_TRANSACTION_ENTITIES
;
```

OBJECT_NAME	ROWCOUNT
XLA_TRANSACTION_ENTITIES_UPG	2608561
XLA_TRANSACTION_ENTITIES	401250
XLA.XLA_TRANSACTION_ENTITIES_UPG	2608561