



11월28일 멘토링

태그

멘토링 발표

```
login as: tibero
tibero@192.168.56.241's password:
Last login: Mon Nov 21 17:16:51 2022 from 192.168.56.1
[tibero@T1:/home/tibero]$ ps -ef | grep tbsvr
tibero    2112    2042    0 12:22 pts/0    00:00:00 grep --color=auto tbsvr
[tibero@T1:/home/tibero]$ tbboot
Change core dump dir to /tibero/tibero6/bin/prof.
*****
*
*          BOOT FAILED.
* Garbage files have not been deleted.
* Please run "tbdown clean" and try again.
*****
[tibero@T1:/home/tibero]$ tbdown clean
shmget failed. errno: 2
[tibero@T1:/home/tibero]$ tbboot
Change core dump dir to /tibero/tibero6/bin/prof.
Listener port = 8629
```

Tibero 6

```
TmaxData Corporation Copyright (c) 2008-. All rights reserved.
Tibero instance started up (NORMAL mode).
[tibero@T1:/home/tibero]$ tbsql sys/tibero
```

tbSQL 6

```
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```

Connected to Tibero.

```
SQL> CREATE TABLE PARENT(
      2 P_ID VARCHAR2(2) NOT NULL;)
      3 ^C
SQL> CREATE TABLE PARENT(
      2 P_ID ARCHAR2(2) NOT NULL);
TBR-7001: General syntax error.
at line 2, column 13 of null:
P_ID ARCHAR2(2) NOT NULL)
      ^
```

```
SQL> CREATE TABLE PARENT(
```

```

2 P_ID VARCHAR(2) NOT NULL);

Table 'PARENT' created.

SQL> ALTER TABLE PARENT ADD CONSTRAINT
2 P_PK PRIMARY KEY (P_ID);

Table 'PARENT' altered.

SQL> CREATE TABLE CHILD(
2 C_ID VARCHAR2(2) NOT NULL,
3 P_ID VARCHAR2(2)
4 );

Table 'CHILD' created.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
2 C+PK PRIMARY KEY(C_ID);
TBR-7001: General syntax error.
at line 2, column 2 of null:
C+PK PRIMARY KEY(C_ID)
^

SQL> ALTER TABLE CHILD ADD CONSTRAINT
2 C_PK PRIMARY KEY(C_ID);

Table 'CHILD' altered.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
2 C_FK FOREIGN KEY(P_ID) REFERENCES PARENT(P_ID);

Table 'CHILD' altered.

SQL> SELECT * PARENT;
TBR-8008: Missing expression.
at line 1, column 10 of null:
SELECT * PARENT
^

SQL> SELECT * PARENT;
TBR-8008: Missing expression.
at line 1, column 10 of null:
SELECT * PARENT
^

SQL> INSERT INTO PARENT VALYES('A');
TBR-8011: Missing VALUES keyword.
at line 1, column 27 of null:
INSERT INTO PARENT VALYES('A')
^

SQL> INSERT INTO PARENT VALUES('A');

1 row inserted.

SQL> INSERT INTO PARENT VALUES('B');

1 row inserted.

```

```

SQL> SELECT * FROM PARENT;

P_ID
----
A
B

2 rows selected.

SQL> INSERT INTO CHILD VALUES('a' , 'A');

1 row inserted.

SQL> SELECT * FROM CHILD;

C_ID P_ID
---- ----
a    A

1 row selected.

SQL> INSERT INTO CHILD VALUES('b','B');

1 row inserted.

SQL> DELETE FROM PARENT WHRERE P_ID='A';
TBR-8004: Syntax error.
at line 1, column 27 of null:
DELETE FROM PARENT WHRERE P_ID='A'
                        ^

SQL> DELETE FROM PARENT WHERE P_ID='A';
TBR-10009: INTEGRITY constraint violation ('SYS'. 'C_FK'): foreign key exists.

SQL> ALTER TABLE CHILD DROP CONSTRAINT C_FK;

Table 'CHILD' altered.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  2 C_FK FOREIGN KEY(P_ID) REFERENCES
  3 PAREINT(P_ID) ON DELETE CASCADE;
TBR-7071: Schema object 'SYS.PAREINT' was not found or is invalid.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  2 C_FK FOREIGN KEY(P_ID) REFERENCES
  3 PARENT(P_ID) ON DELETE CASCADE;

Table 'CHILD' altered.

SQL> DELETE FROM PARENT WHERE P_ID='A';

1 row deleted.

SQL> ^C
SQL> ^C
SQL> SHOW DATABASES;
TBS-70003: Invalid command. Enter HELP or HELP <command>.

```

```

at line 1, column 6:
SHOW DATABASES;
      ^^^^^^^^^^

SQL> SHOW Q
TBS-70003: Invalid command. Enter HELP or HELP <command>.
at line 1, column 6:
SHOW Q
      ^

SQL> EXIT
Disconnected.
[tibero@T1:/home/tibero]$ tbdownd

Tibero instance terminated (NORMAL mode).

[tibero@T1:/home/tibero]$ ps -ef | grep tbsvr
tibero    4555   2042   0 12:52 pts/0    00:00:00 grep --color=auto tbsvr
[tibero@T1:/home/tibero]$ ps -ef | grep tbsvr
tibero    4566   2042   0 12:52 pts/0    00:00:00 grep --color=auto tbsvr
[tibero@T1:/home/tibero]$ tbboot
Change core dump dir to /tibero/tibero6/bin/prof.
Listener port = 8629

Tibero 6

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Tibero instance started up (NORMAL mode).
[tibero@T1:/home/tibero]$ ps -ef | grep tbsvr
tibero    6196      1 12 13:13 pts/0    00:00:00 tbsvr                -t NORMAL -SVR_SID tibe
ro
tibero    6199   6196   0 13:13 pts/0    00:00:00 tbsvr_MGWP          -t NORMAL -SVR_SID tibe
ro
tibero    6200   6196   0 13:13 pts/0    00:00:00 tbsvr_FGWP000       -t NORMAL -SVR_SID tibe
ro
tibero    6201   6196   0 13:13 pts/0    00:00:00 tbsvr_FGWP001       -t NORMAL -SVR_SID tibe
ro
tibero    6202   6196   0 13:13 pts/0    00:00:00 tbsvr_PEW000        -t NORMAL -SVR_SID tibe
ro
tibero    6203   6196   0 13:13 pts/0    00:00:00 tbsvr_PEW001        -t NORMAL -SVR_SID tibe
ro
tibero    6204   6196   0 13:13 pts/0    00:00:00 tbsvr_PEW002        -t NORMAL -SVR_SID tibe
ro
tibero    6205   6196   0 13:13 pts/0    00:00:00 tbsvr_PEW003        -t NORMAL -SVR_SID tibe
ro
tibero    6206   6196   6 13:13 pts/0    00:00:00 tbsvr_AGNT          -t NORMAL -SVR_SID tibe
ro
tibero    6207   6196   0 13:13 pts/0    00:00:00 tbsvr_DBWR          -t NORMAL -SVR_SID tibe
ro
tibero    6208   6196   1 13:13 pts/0    00:00:00 tbsvr_RCWP          -t NORMAL -SVR_SID tibe
ro
tibero    6315   2042   0 13:13 pts/0    00:00:00 grep --color=auto tbsvr
[tibero@T1:/home/tibero]$ tbsql sys/tibero

tbSQL 6

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```

```

Connected to Tibero.

SQL> drop taable parent;
TBR-7001: General syntax error.
at line 1, column 6 of null:
drop taable parent
      ^^^^^^

SQL> drop table parent;
TBR-7156: Referenced by foreign keys.

SQL> drop table child;

Table 'CHILD' dropped.

SQL> drop table parent;

Table 'PARENT' dropped.

SQL> exit
Disconnected.
[tibero@T1:/home/tibero]$ tbsql sys/tibero

tbSQL 6

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Connected to Tibero.

SQL> CREATE TABLE PARENT(
      2 P_ID VARCHAR(2) NOT NULL); 2
TBR-7001: General syntax error.
at line 2, column 4 of null:
      2 P_ID VARCHAR(2) NOT NULL)
      ^

SQL> CREATE TABLE PARENT(
      P_ID VARCHAR(2) NOT NULL); 2

Table 'PARENT' created.

SQL> ALTER TABLE PARENT ADD CONSTRAINT
      P_PK PRIMARY KEY (P_ID); 2

Table 'PARENT' altered.

SQL> INSERT INTO PARENT VALUES('A');

1 row inserted.

SQL> INSERT INTO PARENT VALUES('A');
TBR-10007: UNIQUE constraint violation ('SYS'. 'P_PK').

SQL> INSERT INTO PARENT VALUES('B');

1 row inserted.

SQL> select * from parent;

```

```

P_ID
----
A
B

2 rows selected.

SQL> CREATE TABLE CHILD(
  C_ID VARCHAR2(2) NOT NULL,
  P_ID VARCHAR2(2)
); 2 3 4

Table 'CHILD' created.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  C_PK PRIMARY KEY(C_ID); 2

Table 'CHILD' altered.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  C_FK FOREIGN KEY(P_ID) REFERENCES PARENT(P_ID); 2

Table 'CHILD' altered.

SQL> INSERT INTO CHILD VALUES('a' , 'A');

1 row inserted.

SQL> INSERT INTO CHILD VALUES('b', 'B');

1 row inserted.

SQL> SELECT * FROM CHILD;

C_ID P_ID
---- ----
a A
b B

2 rows selected.

SQL> DELETE FROM PARENT WHERE P_ID='A';
TBR-10009: INTEGRITY constraint violation ('SYS'. 'C_FK'): foreign key exists.

SQL> ALTER TABLE CHILD DROP CONSTRAINT C_FK;

Table 'CHILD' altered.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  C_FK FOREIGN KEY(P_ID) REFERENCES
  PAREINT(P_ID) ON DELETE CASCADE; 2 3
TBR-7071: Schema object 'SYS.PAREINT' was not found or is invalid.

SQL> ALTER TABLE CHILD ADD CONSTRAINT
  C_FK FOREIGN KEY(P_ID) REFERENCES

```

```

PARENT(P_ID) ON DELETE CASCADE;    2    3

Table 'CHILD' altered.

SQL> DELETE FROM PARENT WHERE P_ID='A';

1 row deleted.

SQL> desc dbms_myview;
TBS-70020: Specified object was not found.

SQL> desc dbms_myview
TBS-70020: Specified object was not found.

SQL> CREATE TABLE TEST(ID NUMBER PRIMARY KEY);

Table 'TEST' created.

SQL> CREATE TABLE TEST1(ID NUMBER PRIMARY KEY);

Table 'TEST1' created.

SQL> CREATE MATERIALIZED IEW log on test WITH rowid(id) INCLUDING NEW VALUES;
TBR-7001: General syntax error.
at line 1, column 21 of null:
CREATE MATERIALIZED IEW log on test WITH rowid(id) INCLUDING NEW VALUES
      ^^^

SQL> create materialized view log on test WITH rowid(id) INCLUDING NEW VALUES;

Materialized View Log on 'TEST' created.

SQL> ^C
SQL> create materialized view log on test1 ^C
SQL> ^C
SQL> create materialized view log on test1 WITH rowid(id) INCLUDING NEW VALUES;

Materialized View Log on 'TEST1' created.

SQL> insert into test alues(1);
TBR-8011: Missing VALUES keyword.
at line 1, column 24 of null:
insert into test alues(1)
              ^

SQL> insert into test values(1);

1 row inserted.

SQL> insert into test1 values(1);

1 row inserted.

SQL> select * from mva_test;
TBR-8033: Specified schema object was not found.
at line 1, column 16 of null:
select * from mva_test
              ^

```

```

SQL> exec dbms_mnview.refresh('mv_test','f');
TBR-15146: PSM compilation error.

TBR-15044: Undefined identifier 'DBMS_MNVIEW'.
at line 1, column 7 of null:
BEGIN dbms_mnview.refresh('mv_test','f'); END;
      ^^^^^^^^^^^^^^^

SQL> exec dbms_mview.refresh('mv_test');
TBR-20009: invalid input.
TBR-15163: Unhandled exception at SYS.DBMS_MVIEW_UTIL, line 27.
TBR-15163: Unhandled exception at SYS.DBMS_MVIEW, line 206.
TBR-15163: Unhandled exception at line 1.

SQL> exec dbms_mview.refresh('mv_test','f');
TBR-20009: invalid input.
TBR-15163: Unhandled exception at SYS.DBMS_MVIEW_UTIL, line 27.
TBR-15163: Unhandled exception at SYS.DBMS_MVIEW, line 206.
TBR-15163: Unhandled exception at line 1.

SQL> create materialized view m_test refresh force as select a.id from test a, test 1 b
where a.id=b.id;
TBR-8022: Invalid end of SQL.
at line 1, column 79 of null:
create materialized view m_test refresh force as select a.id from test a, test 1
                                             ^

SQL> create materialized view mv_test refresh force as select a.id from test a, test b
whrere a.id=b.id;
TBR-8022: Invalid end of SQL.
at line 1, column 83 of null:
d view mv_test refresh force as select a.id from test a, test b whrere a.id=b.id
                                             ^

SQL> ^C
SQL> create materialized view mv_test refresh force as select a.id from test a, test
b whrere a.id=b.id;
TBR-8022: Invalid end of SQL.
at line 1, column 84 of null:
d view mv_test refresh force as select a.id from test a, test b whrere a.id=b.id
                                             ^

SQL> ^C
SQL> create materialized view mv_test refresh force as select a.id from test a, test b
where a.id=b.id;
TBR-2131: Generic I/O error.

SQL> delete from test;
TBS-70004: Not connected to the server.

SQL> q
[tibero@T1:/home/tibero]$ ps -ef | grep tbsvr
tibero    6196      1  0 13:13 pts/0    00:00:05 tbsvr          -t NORMAL -SVR_SID tibe
ro
tibero    6199  6196  0 13:13 pts/0    00:00:00 tbsvr_MGWP        -t NORMAL -SVR_SID tibe
ro
tibero    6200  6196  0 13:13 pts/0    00:00:00 tbsvr_FGWP000    -t NORMAL -SVR_SID tibe

```



```

ro
tibero      6201  6196   0 13:13 pts/0    00:00:13 tbsvr_FGWP001 -t NORMAL -SVR_SID tibe
ro
tibero      6202  6196   0 13:13 pts/0    00:00:00 tbsvr_PEWP000 -t NORMAL -SVR_SID tibe
ro
tibero      6203  6196   0 13:13 pts/0    00:00:00 tbsvr_PEWP001 -t NORMAL -SVR_SID tibe
ro
tibero      6204  6196   0 13:13 pts/0    00:00:00 tbsvr_PEWP002 -t NORMAL -SVR_SID tibe
ro
tibero      6205  6196   0 13:13 pts/0    00:00:00 tbsvr_PEWP003 -t NORMAL -SVR_SID tibe
ro
tibero      6206  6196   0 13:13 pts/0    00:00:08 tbsvr_AGNT   -t NORMAL -SVR_SID tibe
ro
tibero      6207  6196   0 13:13 pts/0    00:00:11 tbsvr_DBWR   -t NORMAL -SVR_SID tibe
ro
tibero      6208  6196   0 13:13 pts/0    00:00:00 tbsvr_RCWP   -t NORMAL -SVR_SID tibe
ro
tibero     13723  2042   0 14:55 pts/0    00:00:00 grep --color=auto tbsvr
[tibero@T1:/home/tibero]$ tbdwn

```

Tibero instance terminated (NORMAL mode).

```

[tibero@T1:/home/tibero]$ tbboot
Change core dump dir to /tibero/tibero6/bin/prof.
Listener port = 8629

```

Tibero 6

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Tibero instance started up (NORMAL mode).
[tibero@T1:/home/tibero]\$ tbsql sys tibero

tbSQL 6

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TBS-70059: Invalid option 'tibero'.

Usage: tbsql [options] [logon] [script]

options

```

-----
-h,--help          Displays this information
-v,--version       Displays version information
-s,--silent        Enables silent mode. Does not display the start-up message,
                   prompts and commands
-i,--ignore        Ignore the login script (eg, tbsql.login)

```

logon

```

-----
[username[/password[@connect_identifier]]]

```

script

```

-----
@filename[.ext] [parameter ...]

```

```

SQL> q
[tibero@T1:/home/tibero]$ tbsql sys/tibero

```

tbSQL 6

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Connected to Tiberio.

```
SQL> delete from test'  
      2 ;
```

TBR-23002: Missing single quote.
at line 1, column 18 of null:

```
SQL> delete from test;
```

1 row deleted.

```
SQL> delete from test1;
```

1 row deleted.

```
SQL> create materialized view mv_test frefresh force as select a.id from test a,test1  
      b where a.id=b.id'  
      2 ^C
```

```
SQL> ^C
```

```
SQL> create materialized view mv_test frefresh force as select a.id from test a,test1  
      b where a.id=b.id;
```

TBR-7001: General syntax error.

at line 1, column 35 of null:

```
create materialized view mv_test frefresh force as select a.id from test a,test  
                        ^^^^^^^^^
```

```
SQL> ^C
```

```
SQL> 1
```

```
1 create materialized view mv_test frefresh force as select a.id from test a,test1  
b where a.id=b.id
```

```
SQL> q
```

Disconnected.

[tiberio@T1:/home/tiberio]\$ rlwrap tbsql sys/tiberio

tbSQL 6

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Connected to Tiberio.

```
SQL>
```

```
SQL>
```

```
SQL> create materialized view mv_test frefresh force as select a.id from test a,test1  
      b where a.id=b.id
```

```
      2
```

```
SQL> create materialized view mv_test refresh force as select a.id from test a,test1  
      b where a.id=b.id;
```

Materialized View 'MV_TEST' created.

```
SQL> drop table test;
```

```

Table 'TEST' dropped.

SQL> drop table test1;

Table 'TEST1' dropped.

SQL> create materialized view mv_Test enable query rewrite as select a.rowid aa, b.row
id bb, a.id from test a, test1 b where a.id=b.id;
TBR-7102: Duplicate schema object 'SYS.MV_TEST' exists.

SQL>
SQL> drop materialized view mv_Test ;

Materialized View 'MV_TEST' dropped.

SQL>
SQL> create materialized view mv_Test enable query rewrite as select a.rowid aa, b.row
id bb, a.id from test a, test1 b where a.id=b.id;
TBR-8033: Specified schema object was not found.
at line 1, column 100 of null:
rite as select a.rowid aa, b.rowid bb, a.id from test a, test1 b where a.id=b.id
                                ^

SQL>
SQL> CREATE TABLE TEST(ID NUMBER PRIMARY KEY);

Table 'TEST' created.

SQL>
SQL> CREATE TABLE TEST1(ID NUMBER PRIMARY KEY);

Table 'TEST1' created.

SQL>
SQL> create materialized view mv_Test enable query rewrite as select a.rowid aa, b.ro
wid bb, a.id from test a, test1 b where a.id=b.id;

Materialized View 'MV_TEST' created.

SQL> exit
Disconnected.
[tibero@T1:/home/tibero]$ cd $TB_HOME
[tibero@T1:/tibero/tibero6]$ cd scripts
[tibero@T1:/tibero/tibero6/scripts]$ ls -alrt | grep rewrite
-rw-r--r--  1 tibero dba      687 Nov 25  2021 rewrite_table.sql
[tibero@T1:/tibero/tibero6/scripts]$ tbsql sys/tibero

tbSQL 6

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Connected to Tibero.

SQL> @rewrite_Table.sql
TBS-70002: Failed to open the file 'rewrite_Table.sql': No such file or directory.

SQL> ^C
SQL> @ rewrite_table.sql

```

```

TBR-7102: Duplicate schema object 'SYS.REWRITE_TABLE' exists.

SQL> exit
Disconnected.
[tibero@T1:/tibero/tibero6/scripts]$ tbsql tibero/max

tbSQL 6

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TBR-17001: Login failed: invalid user name or password.

SQL> tbsql tibero/tmax
TBS-70003: Invalid command. Enter HELP or HELP <command>.
at line 1, column 1:
tbsql tibero/tmax
^^^^^

SQL> q
[tibero@T1:/tibero/tibero6/scripts]$ tbsql tibero/tmax

tbSQL 6

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Connected to Tibero.

SQL> ^C
SQL> @rewrite_Table.sql
TBS-70002: Failed to open the file 'rewrite_Table.sql': No such file or directory.

SQL> @rewrite_Table.sql
TBS-70002: Failed to open the file 'rewrite_Table.sql': No such file or directory.

SQL> exit
Disconnected.
[tibero@T1:/tibero/tibero6/scripts]$ tbsql sys/tibero

tbSQL 6

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Connected to Tibero.

SQL> desc rewrite_table

```

COLUMN_NAME	TYPE	CONSTRAINT
STATEMENT_ID	VARCHAR(30)	
MV_OWNER	VARCHAR(128)	
MV_NAME	VARCHAR(128)	
SEQUENCE	NUMBER(38)	
QUERY	VARCHAR(4000)	
REWRITTEN_TXT	VARCHAR(4000)	
MESSAGE	VARCHAR(512)	
COL	VARCHAR(4000)	
ORIGINAL_COST	NUMBER(38)	
REWRITTEN_COST	NUMBER(38)	

```

SQL> q
Disconnected.
[tibero@T1:/tibero/tibero6/scripts]$ rlwrap tbsql sys/tibero

tbSQL 6

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Connected to Tibero.

SQL> exec dbms_mview.explain_rewrite('select a.rowid aa, b.rowid bb, a.id from test
a, test1 b where a.id = b.id');

PSM completed.

SQL> select mv_owner, query, message from rewrite_table;

MV_OWNER
-----
QUERY
-----
MESSAGE
-----

SELECT MV.* FROM SYS._DD_MVIEW MV, SYS._DD_OBJ OBJ WHERE MV.OBJ_ID=OBJ.OBJ_ID AN
D BITAND(OBJ.FLAGS,:"SYS_B_0")=:"SYS_B_1" AND MV.HASH_1=:VAL AND MV.STATUS=:"SYS
_B_2"
002: no suitable materialized view found

SELECT MV.* FROM SYS._DD_MVIEW MV, SYS._DD_OBJ OBJ WHERE MV.OBJ_ID=OBJ.OBJ_ID AN
D BITAND(OBJ.FLAGS,:"SYS_B_0")=:"SYS_B_1" AND MV.HASH_2=:VAL AND MV.STATUS=:"SYS
_B_2"
002: no suitable materialized view found

select a.rowid aa, b.rowid bb, a.id from test a, test1 b where a.id = b.id
002: no suitable materialized view found

3 rows selected.

SQL> alter session enable parallel dml;
TBR-12064: Unable to alter the session PDML state within a transaction.

SQL> commit;

Commit completed.

SQL> alter session enable parallel dml;

Session altered.

SQL> insert /*+append parallel(2)*/ into test select 2*level from dual connect by leve
l<=30000;

30000 rows inserted.

```

```
SQL> insert /*+append parallel(2)*/ into test1 select 3*level from dual connect by level <= 30000;
```

TBS-70003: Invalid command. Enter HELP or HELP <command>.

at line 1, column 1:

```
insert /*+append parallel(2)*/ into test1 select 3*level from dual connect by level <= 30000;
```

^^^^

```
SQL> insert /*+append parallel(2)*/ into test1 select 3*level from dual connect by level <= 30000;
```

30000 rows inserted.

```
SQL> alter session disable parallel dml;
```

TBR-12064: Unable to alter the session PDML state within a transaction.

```
SQL> refresh
```

TBS-70003: Invalid command. Enter HELP or HELP <command>.

at line 1, column 1:

```
refresh
```

^^^^^^

```
SQL> alter session disable parallel dml;
```

TBR-12064: Unable to alter the session PDML state within a transaction.

```
SQL> resfresh;
```

TBS-70003: Invalid command. Enter HELP or HELP <command>.

at line 1, column 1:

```
resfresh;
```

^^^^^^^^

```
SQL> refresh;
```

TBS-70003: Invalid command. Enter HELP or HELP <command>.

at line 1, column 1:

```
refresh;
```

^^^^^^^^

```
SQL> commit;
```

Commit completed.

```
SQL> alter session disable parallel dml;
```

Session altered.

```
SQL> set autot trace
```

```
SQL> select a.rowid aa, b.rowid bb, a.id  
       2 from test a, test1 b where a.id=b.id;
```

SQL ID: 6vqmqq3fpf0da

Child number: 225

Plan hash value: 2965278970

Execution Plan

- 1 HASH JOIN (Cost:67, %%CPU:4, Rows:37085)
- 2 TABLE ACCESS (FULL): TEST (Cost:32, %%CPU:0, Rows:37085)

3 TABLE ACCESS (FULL): TEST1 (Cost:32, %%CPU:0, Rows:37085)

Predicate Information

1 - access: ("A"."ID" = "B"."ID") (0.000)

Note

2 - dynamic sampling used for this table (63 blocks)

3 - dynamic sampling used for this table (63 blocks)

NAME	VALUE
db block gets	1752
consistent gets	232
physical reads	94
redo size	240
sorts (disk)	0
sorts (memory)	2
rows processed	10000

실행계획보는 방법

제일 깊숙하게 실행되었던것부터 실행계획을 본다.

기본적으로 위에서 아래로 밖에서 안으로 진행된다.

이진트리방법을 많이 사용한다.

SELECT STATEMENT
SORT GROUP BY
HASH JOIN OUTER
TABLE ACCESS BY INDEX ROWID
INDEX RANGE SCAN
TABLE ACCESS BY INDEX ROWID
INDEX SCIP SCAN
4 3 5 2 1

위에서 아래로, 안에서 밖으로 보는데

위에서 가장 안에있는것부터 실행해서

안에서 밖으로 순서대로 실행된다.

7-6-9-8-5-10-4-3-14-13-16-15-12-11-2-1

실체화뷰는 공간을 가지고 있고 뷰는 공간을 가지고 있지 않다.

실체화뷰는 시간이 훨씬 빠르다.

단점은 데이터 싱크를 주기적으로 맞춰야 한다.

뷰는 바로 동적으로 가져와서 원본테이블이랑 데이터가 바뀌지 않는다.
실체화뷰는 실시간으로 데이터를 확인한다. 예를들어 콘서트 예매를 든다.
실체뷰는 원본데이터를 건든다. REFRESH할때만 동기화해서 본다.
잘사용하지 않는다.

WITH절이랑 실체화뷰처럼 DBMS의 트렌드가 있다.

과거에는 이너조인으로 사용했으나
START WITH, CONNECT WITH으로 사용한다.

힌트를 해서 JOIN을 강제로 하는 경우도 있고 실제로 해서 블록되는 경우가 있다.
실제로 오라클에서도 막아두고
UPDATE할때 많이 사용하지 않는다.

칼럼뽑아서 UPDATE에러가 난다.
강제로 힌트를 받는 경우 할수는 있으나 잘 안된다.

TRUNCATE의 경우는 세그먼트를 전부 밀어버리기 때문에 삭제된다.
그룹바이에서 피벗, 언피벗
SQL은 STRUCT QUERY LANGUAG