4 115. User Level Pump

```
user level pump는 현업에서 가장 많이 쓰인다.
실습 1.
1. PROD 쪽에서 scott이 가지고 있는 모든 객체를 user level로 export pump 하시오.
(PROD)
expdp scott/tiger directory=datapump_dir schemas=scott dumpfile=scott.dmp

-> 만약에서 에러가 난다면 아래의 코드로 실행하기
rm scott.dmp
expdp system/oracle_4U directory=datapump_dir schemas=scott dumpfile=scott.dmp
```

```
[PROD:~]$ expdp scott/tiger directory=datapump_dir schemas=scott dumpfile=scott.
Export: Release 11.2.0.1.0 - Production on Thu Feb 22 15:53:32 2024
Copyright (c) 1982, 2009, Oracle and/or its affiliates. All rights reserved.
Connected to: Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Produc
With the Partitioning, OLAP, Data Mining and Real Application Testing options
Starting "SCOTT". "SYS_EXPORT_SCHEMA_01": scott/***** directory=datapump dir
schemas=scott dumpfile=scott.dmp
Estimate in progress using BLOCKS method...
Processing object type SCHEMA_EXPORT/TABLE/TABLE_DATA
Total estimation using BLOCKS method: 60.68 MB
Processing object type SCHEMA_EXPORT/USER
Processing object type SCHEMA_EXPORT/SYSTEM_GRANT
Processing object type SCHEMA_EXPORT/ROLE_GRANT
Processing object type SCHEMA_EXPORT/DEFAULT_ROLE
Processing object type SCHEMA_EXPORT/PRE_SCHEMA/PROCACT_SCHEMA
Processing object type SCHEMA_EXPORT/TABLE/TABLE
Processing object type SCHEMA_EXPORT/TABLE/INDEX/INDEX
Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/CONSTRAINT
Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/INDEX_STATISTICS
Processing object type SCHEMA_EXPORT/TABLE/COMMENT
Processing object type SCHEMA_EXPORT/TABLE/AUDIT_OBJ
Processing object type SCHEMA_EXPORT/TABLE/INDEX/FUNCTIONAL_AND_BITMAP/INDEX
Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/FUNCTIONAL_AND_BITMA
P/INDEX_STATISTICS
Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS
Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/USER_PREF_STATISTICS
                                                            29.62 MB 918843 rows
. . exported "SCOTT"."SALES100"
 . . exported "SCOTT"."EMP100"
                                                            9.070 MB 229376 rows
 . exported "SCOTT"."ORDERS"
                                                            4.394 MB 100000 rows
 . exported "SCOTT"."DEPT"
                                                            6.023 KB
                                                                           8 rows
 . exported "SCOTT"."DEPT_NEW"
                                                                           4 rows
                                                            5.937 KB
 . exported "SCOTT"."EMP"
                                                            9.132 KB
                                                                           28 rows
 . exported "SCOTT"."EMP1000"
. exported "SCOTT"."EMP612"
                                                            8.570 KB
                                                                           14 rows
                                                            9.132 KB
                                                                           28 rows
 . exported "SCOTT"."EMP7100"
                                                            5.484 KB
                                                                           3 rows
 . exported "SCOTT"."EMP8100"
                                                            5.515 KB
                                                                           6 rows
 . exported "SCOTT"."EMP_INSA"
                                                            20.25 KB
                                                                           14 rows
 . exported "SCOTT"."EMP_PSH"
                                                            8.570 KB
                                                                           14 rows
 . exported "SCOTT"."PRODUCTS"
. exported "SCOTT"."SALGRADE"
. exported "SCOTT"."BONUS"
                                                            26.16 KB
                                                                           72 rows
                                                            6.023 KB
                                                                            6 rows
                                                                            0 rows
    exported "SCOTT". "CHAINED_ROWS"
                                                                0 KB
                                                                            0 rows
    exported "SCOTT"."EMP10"
                                                                0 KB
                                                                            0 rows
    exported "SCOTT"."EMP800"
Master table "SCOTT". "SYS_EXPORT_SCHEMA_01" successfully loaded/unloaded
Dump file set for SCOTT.SYS_EXPORT_SCHEMA_01 is:
  /home/oracle/pump_prod/scott.dmp
 Job "SCOTT". "SYS_EXPORT_SCHEMA_01" successfully completed at 15:53:53
```

```
2. psh2에 jones2계정을 생성한다.
create user jones2 identified by tiger;
grant dba to jones2;

3. export 받은 파일을 psh2 쪽 디렉토리로 copy 한다.
(PROD)
```

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```
cp /home/oracle/pump_prod/scott.dmp /home/oracle/pump_psh2/scott.dmp

4. psh2 db에 user level로 import 한다.
(psh2)
impdp system/oracle directory=psh2_dir dumpfile=scott.dmp remap_schema=scott:jones2 remap_tables

(PROD scott)
select table_name, tablespace_name from user_tables;
(psh2 jones2)
select table_name, tablespace_name from user_tables;
```

```
PROD(SCOTT) > select table_name, tablespace_name from user_tables;
TABLE_NAME
                                TABLESPACE_NAME
EMP INSA
                                INSA02
CHAINED_ROWS
                                EXAMPLE
EMP612
                                TS100
EMP8100
                                TS8100
EMP7100
                                TS7100
BONUS
                                EXAMPLE
                                EXAMPLE
PRODUCTS
                                EXAMPLE
SALES100
                                EXAMPLE
DEPT_NEW
SALGRADE
                                EXAMPLE
                                EXAMPLE
TABLE_NAME
                                TABLESPACE_NAME
DEPT
                                EXAMPLE
EMP800
                                TS800
EMP_PSH
                                PSH
EMP1000
                                TS100
ORDERS
                                EXAMPLE
EMP100
                                TEST100
EMP10
18 rows selected.
```

```
psh2(JONES2) > select table_name, tablespace_name from user_tables;
TABLE_NAME
                                TABLESPACE_NAME
BONUS
                                TS450
PRODUCTS
                                TS450
SALES100
                                TS450
DEPT_NEW
                                TS450
SALGRADE
                                TS450
EMP
                                TS450
DEPT
                                TS450
CHAINED_ROWS
                                TS450
ORDERS
                                TS450
EMP8100
                                TS8100
EMP7100
                                TS7100
TABLE_NAME
                                TABLESPACE_NAME
EMP10
                                SYSTEM
12 rows selected.
```

```
5. 만약에 최종적으로 테이블이 모두 안 넘어갔으면 jones2유저를 drop하고 다시 생성한 다음에 다시 import를 하시오.
(psh2 sys)
drop user jones2 cascade;

create user jones2 identified by tiger;
grant dba to jones2;

-> 다시 할 때는 PROD scott에 있는 모든 tablespace들을 다 써준다.
select distinct tablespace_name from user_tables;
(위의 실습에서 테이블 스페이스 system, ts7100, ts8100은 실행이 되서 뺏음)
impdp system/oracle directory=psh2_dir dumpfile=scott.dmp remap_schema=scott:jones2 remap_tables
```

```
mported "JONES2"."EMP
                                                                                         28 rows
      imported "JONES2"."EMP1000"
                                                                                         14 rows
      imported "JONES2"."EMP612"
                                                                       9.132 KB
                                                                                         28 rows
     imported "JONES2". "EMP7100"
                                                                       5.484 KB
                                                                                         3 rows
     imported "JONES2"."EMP8100"
                                                                       5.515 KB
                                                                                         6 rows
 . . imported "JONES2"."EMP INSA"
                                                                                         14 rows
                                                                       20.25 KB
  . imported "JONES2"."EMP_PSH"
. imported "JONES2"."PRODUCTS"
                                                                       8.570 KB
                                                                                         14 rows
                                                                       26.16 KB
                                                                                         72 rows
 . . imported "JONES2"."SALGRADE"
                                                                       6.023 KB
                                                                                         6 rows
 . . imported "JONES2"."BONUS"
                                                                           0 KB
                                                                                         0 rows
 . . imported "JONES2"."CHAINED_ROWS"
                                                                           0 KB
                                                                                         0 rows
 . . imported "JONES2"."EMP10"
                                                                            9 KB
                                                                                         0 rows
 . . imported "JONES2"."EMP800"
                                                                            0 KB
                                                                                         0 rows
Processing object type SCHEMA_EXPORT/TABLE/INDEX/INDEX
Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/CONSTRAINT
Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/INDEX_STATISTICS
Processing object type SCHEMA_EXPORT/TABLE/COMMENT
Processing object type SCHEMA_EXPORT/TABLE/AUDIT_OBJ
Processing object type SCHEMA_EXPORT/TABLE/INDEX/FUNCTIONAL_AND_BITMAP/INDEX
Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/FUNCTIONAL_AND_BITMA
Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS
Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/USER_PREF_STATISTICS
Job "SYSTEM". "SYS_IMPORT_FULL_01" completed with 1 error(s) at 16:26:37
```

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```
문제 1. 양쪽에서 스키마 레벨로 통계정보를 수집하고 user_tables를 조회해서 테이블 이름과 num_rows를 조회하시오.

(PROD scott)
exec dbms_stats.gather_schema_stats('SCOTT');
select table_name, num_rows from user_tables;

(psh2 jones2)
exec dbms_stats.gather_schema_stats('JONES2');
select table_name, num_rows from user_tables;
```

```
PROD(SCOTT) > select table_name, tablespace_name from user_tables;
TABLE_NAME
                                 TABLESPACE_NAME
EMP_INSA
                                  INSA02
CHAINED_ROWS
                                  EXAMPLE
EMP612
                                  TS100
EMP8100
EMP7100
                                  TS8100
                                  TS7100
BONUS
PRODUCTS
                                 EXAMPLE
                                 EXAMPLE
SALES100
                                  EXAMPLE
DEPT NEW
                                  EXAMPLE
SALGRADE
                                  EXAMPLE
                                  EXAMPLE
TABLE_NAME
                                  TABLESPACE_NAME
DEPT
                                  EXAMPLE
EMP_PSH
EMP1000
                                  TS100
ORDERS
                                  EXAMPLE
EMP 100
                                  TEST100
                                  SYSTEM
18 rows selected.
```

```
psh2(JONES2) > select table_name, tablespace_name from user_tables;
TABLE_NAME
                                TABLESPACE_NAME
EMP612
                                TS450
EMP8100
                                TS8100
EMP7100
                                TS7100
                                TS450
BONUS
PRODUCTS
                                TS450
SALES100
                                TS450
DEPT NEW
                                TS450
SALGRADE
                                TS450
EMP
                                TS450
DEPT
                                TS450
EMP_INSA
                                TS450
TABLE_NAME
                                TABLESPACE_NAME
EMP800
                                TS450
CHAINED_ROWS
                                TS450
EMP_PSH
                                TS450
EMP1000
                                TS450
ORDERS
                                TS450
EMP100
                                TS450
EMP10
                                SYSTEM
18 rows selected.
```

```
문제 2. PROD쪽과 psh2쪽의 테이블을 비교하기 위해 db링크를 생성하고 조회했을 때 잘 이행되는지 확인하시오.

(PROD scott)
create public database link psh2_jones2_link
connect to jones2
identified by tiger
using '192.168.19.40:1521/psh2';
select * from dept@psh2_jones2_link ;

select table_name, num_rows
from user_tables
minus
select table_name, num_rows
from user_tables@psh2_jones2_link ;
```

```
PROD(SCOTT) > select table_name, num_rows
from user_tables
minus
select table_name, num_rows
from user_tables@psh2_jones2_link; 2 3 4 5
no rows selected
```

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