

CSC454 HW#4 Oracle11g Import/Export and DataPump

(15 points)

1. Use Command Line to **export User** (ie. Harry) to C:\LAB454\Harry.dmp

```
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Username: harry
Password:

Connected to: Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Pro
duction
Enter array fetch buffer size: 4096 >
Export file: EXPDAT.DMP > E:\Harry
(2)U(sers), or (3)T(ables): (2)U > u
Export grants (yes/no): yes > y
Export table data (yes/no): yes > y
Compress extents (yes/no): yes > y
Export done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
server uses AL32UTF8 character set (possible charset conversion)
. exporting pre-schema procedural objects and actions
. exporting foreign function library names for user HARRY
. exporting PUBLIC type synonyms
. exporting private type synonyms
. exporting object type definitions for user HARRY
About to export HARRY's objects ...
. exporting database links
. exporting sequence numbers
. exporting cluster definitions
. about to export HARRY's tables via Conventional Path ...
. exporting table Employee 0 rows exported
. exporting table Movie 0 rows exported
. exporting synonyms
. exporting views
. exporting stored procedures
. exporting operators
. exporting referential integrity constraints
. exporting triggers
. exporting indextypes
. exporting bitmap, functional and extensible indexes
. exporting materialized views
. exporting snapshot logs
. exporting job queues
. exporting refresh groups and children
. exporting dimensions
. exporting post-schema procedural objects and actions
. exporting statistics
Export terminated successfully without warnings.
```

In the above prompt:

- By default, it will use expdata.dmp as the output file where all the exported objects will be stored.
 - By default, it will export the whole schema, as shown in the “(2)U” default selection above. To export the entire database, enter 1. To export specific tables, enter 3.
 - Since we selected the default option of “(2)U” for users, you should also specify the Oracle username that should be exported. In this example, we are exporting all the objects that belongs to harry username (schema).
2. Use Interactive Command Line to **export Movie table** to C:\LAB454\Movie.dmp

```
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Username: harry
Password:

Connected to: Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Pro
duction
Enter array fetch buffer size: 4096 >
Export file: EXPDAT.DMP > E:\Movie
(2)U(sers), or (3)T(ables): (2)U > t
Export table data (yes/no): yes > y
Compress extents (yes/no): yes > y
Export done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
server uses AL32UTF8 character set (possible charset conversion)
About to export specified tables via Conventional Path ...
Table(T) or Partition(T:P) to be exported: (RETURN to quit) >
Export terminated successfully without warnings.

C:\Windows\system32>
```

3. Use either Command Line or Interactive Command Line to **export full database** to C:\LAB454\Full.dmp
 - a. How long does it take?

It takes 7minutes

```

. . exporting table APEX$_WS_TAGS 0 rows exported
EXP-00091: Exporting questionable statistics.
EXP-00091: Exporting questionable statistics.
. . exporting table APEX$_WS_WEBPG_SECTIONS 0 rows exported
. . exporting table APEX$_WS_WEBPG_SECTION_HISTORY 0 rows exported
EXP-00091: Exporting questionable statistics.
. . exporting table DEMO_CUSTOMERS 7 rows exported
EXP-00091: Exporting questionable statistics.
. . exporting table DEMO_ORDERS 10 rows exported
EXP-00091: Exporting questionable statistics.
. . exporting table DEMO_ORDER_ITEMS 49 rows exported
. . exporting table DEMO_PRODUCT_INFO 10 rows exported
EXP-00091: Exporting questionable statistics.
. . exporting table DEMO_STATES 51 rows exported
. . exporting table DEMO_USERS 2 rows exported
. . exporting table DEPT 4 rows exported
. . exporting table EMP 14 rows exported
. exporting synonyms
. exporting views
. exporting referential integrity constraints
. exporting stored procedures
. exporting operators
. exporting indextypes
. exporting bitmap, functional and extensible indexes
. exporting posttables actions
. exporting triggers
. exporting materialized views
. exporting snapshot logs
. exporting job queues
. exporting refresh groups and children
. exporting dimensions
. exporting post-schema procedural objects and actions
. exporting user history table
. exporting default and system auditing options
. exporting statistics
Export terminated successfully with warnings.
C:\Windows\system32>

```

- b. How big is the dmp file?

The file is 187mb.

5. How many rows in each of Harry's table?

Employee Table: 6 rows

Movie Table : 16 rows

6. Drop Movie table and truncate Employee table.

```

SQL> truncate table Employee;

Table truncated.

SQL>

```

```

SQL> DROP TABLE MOVIE;

Table dropped.

SQL>

```

7. Use Oracle Enterprise Manager (OEM) or SQL*PLUS to verify Movie table is gone and employee table is empty.

```
SQL> DESC EMPLOYEE;
Name                               Null?      Type
-----
CUST_ID                            NUMBER(10)
LAST                               VARCHAR2(50)
FIRST                              VARCHAR2(50)
DOB                                DATE

SQL> SELECT CUST_ID, LAST, FIRST, DOB
  2 FROM EMPLOYEE;

no rows selected

SQL>
```

```
SQL> DESC MOVIE;
ERROR:
ORA-04043: object MOVIE does not exist

SQL>
```

8. Use **Import** to restore the Movie table.

```
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Username: system
Password:

Connected to: Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

Import data only (yes/no): no >
Import file: EXPDAT.DMP > E:\Movie.DMP
Enter insert buffer size (minimum is 8192) 30720>
Export file created by EXPORT:V11.02.00 via conventional path
Warning: the objects were exported by HARRY, not by you
Import done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
Import server uses AL32UTF8 character set (possible charset conversion)
List contents of import file only (yes/no): no >
Ignore create error due to object existence (yes/no): no >
Import grants (yes/no): yes >
Import table data (yes/no): yes >
Import entire export file (yes/no): no >
Username: system

Enter table(T) or partition(T:P) names. Null list means all tables for user
Enter table(T) or partition(T:P) name or . if done: t
Enter table(T) or partition(T:P) name or . if done: t
Enter table(T) or partition(T:P) name or . if done: t
Enter table(T) or partition(T:P) name or . if done: t:p
Enter table(T) or partition(T:P) name or . if done: .

. importing HARRY's objects into SYSTEM
IMP-00034: Warning: FromUser "SYSTEM" not found in export file
IMP-00033: Warning: Table "T" not found in export file
Import terminated successfully with warnings.

C:\Windows\system32>
```

9. Lisa, another DBA, left the company to pursue better opportunities. She created an export file called Lisa.dmp. You (Harry) need to restore Employee table from Lisa.dmp.

```

Import file: EXPDAT.DMP > C:\Users\Lee_CK\Desktop\FUZZYBEARED\Bucks\ORACLE\Lisa
<1>.dmp

Enter insert buffer size (minimum is 8192) 30720> 30600

Export file created by EXPORT:V10.02.01 via conventional path

Warning: the objects were exported by LISA, not by you

Import done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
Import server uses AL32UTF8 character set (possible charset conversion)
List contents of import file only (yes/no): no >

Ignore create error due to object existence (yes/no): no > y

Import grants (yes/no): yes > y

Import table data (yes/no): yes > y

Import entire export file (yes/no): no > y

. importing LISA's objects into SYSTEM
. . importing table "EMPLOYEE" 107 rows imported
. . importing table "LOCATION" 23 rows imported
Import terminated successfully without warnings.

```

10. How many rows in each of Harry's table?

There are 107 rows for employees and 23 rows for location table.

11. Log on **SYSTEM** to create an export directory called **export_dumps** pointing to C:\LAB454\Export and then give your ID (ie. Harry) **Read/Write** privileges on this directory.

```

Enter user-name: system
Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production
SQL> create user harry identified by 1234;

User created.

SQL> grant create session to harry;

Grant succeeded.

SQL> CREATE DIRECTORY export_pumps AS 'C:\Users\Lee_CK\Desktop\FUZZYBEARED';

Directory created.

SQL> GRANT READ, WRITE ON DIRECTORY export_pumps TO harry;

Grant succeeded.

SQL> conn harry/1234
Connected.
SQL>

```

12. Use DataPump in DOS to export Store table.

```

Username: system
Password:

Connected to: Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Pro
duction
Enter array fetch buffer size: 4096 > 4095

Export file: EXPDAT.DMP > C:\Users\Lee_CK\Desktop\FUZZYBEARED\Bucks\ORACLE\Lisa
.dmp

<1>E(ntire database), <2>U(sers), or <3>T(ables): <2>U > T

Export table data (yes/no): yes > Y

Compress extents (yes/no): yes > Y

Export done in WE8MSWIN1252 character set and AL16UTF16 NCHAR character set
server uses AL32UTF8 character set (possible charset conversion)

About to export specified tables via Conventional Path ...
Table(I) or Partition(I:P) to be exported: (RETURN to quit) >

Export terminated successfully without warnings.

C:\Windows\system32>

```