Deerwalk Institute Of Technology
Database Administration
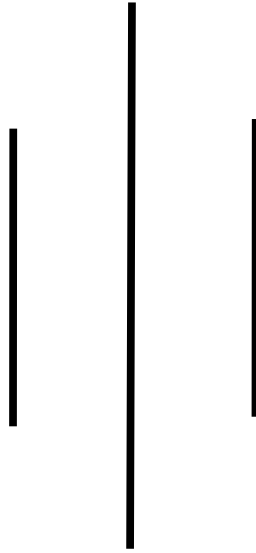
Lab:

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Import Export Utility

The Export and Import utilities provide a simple way for us to transfer data objects between Oracle databases, even if they reside on platforms with different hardware and software configurations. When we run Export against an Oracle database, objects (such as tables) are extracted, followed by their related objects (such as indexes, comments, and grants), if any. The extracted data is written to an export dump file. The Import utility reads the object definitions and table data from the dump file.

To export a oracle dump file, first we need to create a directory in the system disk memory. Executing CREATE DIRECTORY <dir_name> as '<location>'; creates a physical directory.

```
SQL> connect system
Enter password:
Connected.
SQL> create directory exptest as 'c:\'
  2  ;

Directory created.
```

Then, a table is created, operations are performed in the existing database and are commited.

```
SQL> create table test1(id varchar(5),name varchar(40));

Table created.

SQL> insert into test1 values('1','ram');

1 row created.

SQL> insert into test1 values('12','ramkirsh');

1 row created.

SQL> commit;

Commit complete.

SQL> select * from test1;

ID    NAME
----- ----------------------------------------
1     ram
12    ramkirsh
```

Now, to export objects, EXPD command is executed.

```
> EXPD <system_username>/<system_pass> DIRECTORY=<dir_name>
TABLES=<table_to_export> DUMPFILE=<filename.dump>
```

This creates a dump file in the given directory.

```
C:\Users\IT Club>expdp system/dwit#123 directory=exptest tables=test1 dumpfile=test.dmp

Export: Release 10.2.0.3.0 - Production on Thursday, 26 May, 2016 1:27:46

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Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.3.0 - Production
With the Partitioning, OLAP and Data Mining options
Starting "SYSTEM"."SYS_EXPORT_TABLE_01":  system/******** directory=exptest tables=test1 dump
Estimate in progress using BLOCKS method...
Processing object type TABLE_EXPORT/TABLE/TABLE_DATA
Total estimation using BLOCKS method: 64 KB
Processing object type TABLE_EXPORT/TABLE/TABLE
. . exported "SYSTEM"."TEST1"                             5.242 KB       2 rows
Master table "SYSTEM"."SYS_EXPORT_TABLE_01" successfully loaded/unloaded
********************************************************************************
Dump file set for SYSTEM.SYS_EXPORT_TABLE_01 is:
  C:\TEST.DMP
Job "SYSTEM"."SYS_EXPORT_TABLE_01" successfully completed at 01:27:56
```

Importing a object:

We import and load the objects from dump file by using IMPD command. To verify that the import command is working, we first drop the existing table from the database.

```
SQL> drop table test1;

Table dropped.

SQL> select * from test1;
select * from test1
              *
ERROR at line 1:
ORA-00942: table or view does not exist
```

Now, we import the dump file using IMPD command.

```
> IMPD <system_username>/<system_pass> DIRECTORY=<dir_name>
TABLES=<table_to_export> DUMPFILE=<filename.dump>
```

To verify that the import has worked correctly, we view the data using SELECT command.

```
SQL> select * from test1;

ID    NAME
----- ----------------------------------------
1     ram
12    ramkirsh
```

The backup dump file is created in the directory as:

app	4/28/2016 12:28 AM	File folder	
exporting	5/26/2016 12:30 AM	File folder	
Intel	4/25/2016 6:51 AM	File folder	
MSOCache	4/25/2016 9:34 AM	File folder	
oracle	4/29/2016 12:41 AM	File folder	
PerfLogs	7/14/2009 9:05 AM	File folder	
Program Files	4/28/2016 12:28 AM	File folder	
Program Files (x86)	5/13/2016 9:40 AM	File folder	
ProgramData	5/13/2016 8:04 AM	File folder	
Users	4/28/2016 1:43 AM	File folder	
Windows	4/25/2016 9:38 AM	File folder	
AiOLog	4/25/2016 6:59 AM	Text Document	1 KB
export	5/26/2016 1:27 AM	Text Document	1 KB
TEST.DMP	5/26/2016 1:27 AM	DMP File	68 KB
import	5/26/2016 1:28 AM	Text Document	1 KB