

## Import / Export data on Oracle 10g

1. Open a shell on the machine where the database you want to export is hosted (Linux example)

```
su -l oracle
```

2. Execute the following instruction to export the whole database.

```
exp <user>/<password> file=/<path to the .dmp file which will be created> log=/<path to the .log file which will be created> owner=<user> consistent=yes
```

3. Copy the files which were created in step 2 into the machine where the database will be copied and assign 777 permissions on both. (For this you can use a freeware visual SCP client like WinSCP)

4. Open a shell on the machine where you want to copy the database into

```
su -l oracle
```

5. Enter SQLPLUS with a user which is different from the owner of the database which will be overwritten (in case an old copy of the same database exists on this machine. If not, enter SQLPLUS from any user and just go to step 7)

```
sqlplus <user2>/<password2>
```

6. Delete the user and the corresponding tablespace which defines the database to be overwritten (skip this passage if you don't want to overwrite an existing database)

```
drop user <user> cascade;  
drop tablespace <tablespace> including contents and datafiles;
```

- a. If an error message appears saying that the user can't be deleted because it's currently connected, execute the following

```
connect / as sysdba  
startup force restrict;
```

and retry step 6.

7. Re-create (or create if you haven't deleted anything) the tablespace which defines the database in the path where the Oracle DBMS stores the datafiles (Note: this can depend on the operating system of the machine!!). Give initial and auto-increment sizes according to the dimensions of the data which the database is likely to contain.

```
create tablespace <tablespace>  
datafile '/u01/app/oracle/oradata/orcl/<filename>.dbf'  
size 150m autoextend on next 10m maxsize unlimited;
```

8. Re-create (or create if you haven't deleted it) the user which will be the owner of the database

```
create user <user>  
identified by <password>  
default tablespace <tablespace>  
temporary tablespace temp;
```

9. Grant dba privileges to the user

```
grant dba to <user>;
```

10. Exit SQLPLUS

```
exit;
```

11. Do the import making sure that the final message is "Import terminated **successfully.**"

```
imp <user>/<password> file=/<path to the .dmp file which was copied into this machine in step 3> log=/<path to the .log file> fromuser=<user> touser=<user> statistics=none
```

12. If you've executed step 6a then reconnect to SQL PLUS as in step 5 and execute the following to deactivate the session restrictions:

```
connect / as sysdba;  
alter system disable restricted session;
```