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Data Pump

- create table <your_name> by hr user.

```
[root@node1 ~]# chown oracle /opt/backup/  
[root@node1 ~]# ls -ld /opt/backup/  
drwxr-xr-x. 2 oracle oinstall 6 Mar 30 23:59 /opt/backup/  
[root@node1 ~]#
```

```
SQL> grant connect to hr;
```

```
Grant succeeded.
```

```
SQL> conn hr/hr
```

```
Connected.
```

```
SQL> show user;
```

```
USER is "HR"
```

```
SQL> create table mennatallah (id number);
```

```
Table created.
```

```
SQL> GRANT CONNECT, RESOURCE, DBA TO hr  
2 ;
```

```
Grant succeeded.
```

- export the table by expdp

```
SQL> create directory menna as '/opt/backup';
```

```
Directory created.
```

```
SQL> conn / as sysdba
Connected.
SQL> grant read,write on directory menna to hr;

Grant succeeded.
```

```
version 19.3.0.0.0
[oracle@node1 backup]$ expdp hr dumpfile=hr.backup logfile=logs.backup directory=menna tables=mennatallah
```

```
Connected to: Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production
Starting "HR"."SYS_EXPORT_TABLE_01": hr/***** dumpfile=hr.backup logfile=logs.backup directory=menna tables=mennatallah
Processing object type TABLE_EXPORT/TABLE/TABLE_DATA
Processing object type TABLE_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS
Processing object type TABLE_EXPORT/TABLE/TABLE
. . exported "HR"."MENNATALLAH" 0 KB 0 rows
Master table "HR"."SYS_EXPORT_TABLE_01" successfully loaded/unloaded
*****
Dump file set for HR.SYS_EXPORT_TABLE_01 is:
/opt/backup/hr.backup
Job "HR"."SYS_EXPORT_TABLE_01" successfully completed at Sun Mar 31 01:00:08 2024 elapsed 0 00:00:33
```

```
Job "HR"."SYS_EXPORT_TABLE_01" successfully completed at Sun Mar 31 01:00:08 2024 elapsed 0 00:00:33
[oracle@node1 backup]$ ls -ll
total 160
-rw-r----- 1 oracle oinstall 159744 Mar 31 01:00 hr.backup
-rw-r--r-- 1 oracle oinstall 954 Mar 31 01:00 logs.backup
[oracle@node1 backup]$
```

➤ drop the table

```
SQL> drop table mennatallah;

Table dropped.
```

- try select from the table.

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

- re-import the table.

```
[oracle@node1 backup]$ impdp hr dumpfile=hr.backup tables=mennatallah directory=menna
Import: Release 19.0.0.0.0 - Production on Sun Mar 31 12:56:10 2024
Version 19.3.0.0.0

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Password:

Connected to: Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production
Master table "HR"."SYS_IMPORT_TABLE_01" successfully loaded/unloaded
Starting "HR"."SYS_IMPORT_TABLE_01": hr/***** dumpfile=hr.backup tables=mennatallah directory=me
nna
Processing object type TABLE_EXPORT/TABLE/TABLE
Processing object type TABLE_EXPORT/TABLE/TABLE_DATA
. . imported "HR"."MENNATALLAH" 0 KB 0 rows
Processing object type TABLE_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS
Job "HR"."SYS_IMPORT_TABLE_01" successfully completed at Sun Mar 31 12:56:29 2024 elapsed 0 00:00:09
```

Rman

- 1) Create a new database with SID "CATDB"/ or skip if you will use the same target database

Skipped

- 2) create a new tablespace for the catalog

```
SQL> create tablespace catalog datafile 'catalog.db' size 50M;
Tablespace created.
```

```
SQL> alter user rmancatalog quota 100M on catalog;

User altered.
```

3) create user will be used for catalog

```
SQL> create user rmancatalog identified by rmancatalog default tablespace catalog;

User created.
```

4) Assign the CATDB to be the recovery catalog DB for the target DB

```
SQL> grant connect , resource , recovery_catalog_owner to rmancatalog;

Grant succeeded.
```

5) Connect to the target DB in catalog mode and report schema;

```
[oracle@node1 ~]$ rman target / catalog rmancatalog/rmancatalog

Recovery Manager: Release 19.0.0.0.0 - Production on Sun Mar 31 17:37:40 2024
Version 19.3.0.0.0

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connected to target database: ITI (DBID=2732047794)
connected to recovery catalog database
```

```
RMAN> create catalog;

recovery catalog created

RMAN> register database;
```

```
database registered in recovery catalog
starting full resync of recovery catalog
full resync complete
```

```
RMAN> report schema;
```

```
Report of database schema for database with db_unique_name ITI
```

```
List of Permanent Datafiles
=====
```

File	Size(MB)	Tablespace	RB segs	Datafile Name
1	830	SYSTEM	YES	/oradata/ITI/system01.dbf
2	550	SYS_AUX	NO	/oradata/ITI/sysaux01.dbf
3	500	UNDOTBS1	YES	/oradata/ITI/undotbs01.dbf
4	13	USERS	NO	/oradata/ITI/users01.dbf
5	50	ITI_DATA	NO	/oradata/ITI/file1

6) Show all RMAN configurations

```
RMAN> show all;

RMAN configuration parameters for database with db_unique_name ITI are:
CONFIGURE RETENTION POLICY TO REDUNDANCY 1; # default
CONFIGURE BACKUP OPTIMIZATION OFF; # default
CONFIGURE DEFAULT DEVICE TYPE TO DISK; # default
CONFIGURE CONTROLFILE AUTOBACKUP ON; # default
CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO '%F'; # default
CONFIGURE DEVICE TYPE DISK PARALLELISM 1 BACKUP TYPE TO BACKUPSET; # default
CONFIGURE DATAFILE BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
CONFIGURE ARCHIVELOG BACKUP COPIES FOR DEVICE TYPE DISK TO 1; # default
CONFIGURE MAXSETSIZE TO UNLIMITED; # default
CONFIGURE ENCRYPTION FOR DATABASE OFF; # default
CONFIGURE ENCRYPTION ALGORITHM 'AES128'; # default
CONFIGURE COMPRESSION ALGORITHM 'BASIC' AS OF RELEASE 'DEFAULT' OPTIMIZE FOR LOAD TRUE ; # default
CONFIGURE RMAN OUTPUT TO KEEP FOR 7 DAYS; # default
CONFIGURE ARCHIVELOG DELETION POLICY TO NONE; # default
CONFIGURE SNAPSHOT CONTROLFILE NAME TO '/u01/app/oracle/product/19c/db_home/dbs/snapcf_ITI.f'; # default
```