

```
[oracle@sai ~]$ sqlplus / as sysdba
```

SQL*Plus: Release 19.0.0.0.0 - Production on Thu Mar 14 11:19:50 2024

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to an idle instance.

```
SQL> startup,
```

SP2-0714: invalid combination of STARTUP options

```
SQL> startup,
```

SP2-0714: invalid combination of STARTUP options

```
SQL>
```

```
SQL>
```

```
SQL> show pdbs
```

ERROR:

ORA-01034: ORACLE not available

Process ID: 0

Session ID: 0 Serial number: 0

SP2-1545: This feature requires Database availability.

```
SQL> startup;
```

ORACLE instance started.

Total System Global Area 1543500832 bytes

Fixed Size	9135136 bytes
------------	---------------

Variable Size	1241513984 bytes
---------------	------------------

Database Buffers	285212672 bytes
------------------	-----------------

Redo Buffers	7639040 bytes
--------------	---------------

Database mounted.

Database opened.

SQL>

SQL> show con_name;

CON_NAME

CDB\$ROOT

SQL>

SQL>

SQL> show pdbs;

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB\$SEED	READ ONLY	NO
3	CANARA_SAV	MOUNTED	

SQL>

SQL>

SQL> alter pluggable database all open;

Pluggable database altered.

SQL> show pdbs;

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB\$SEED	READ ONLY	NO
3	CANARA_SAV	READ WRITE	NO

SQL>

SQL>

SQL> create pluggable database sbi_savings;

```
create pluggable database sbi_savings
```

```
*
```

ERROR at line 1:

ORA-00922: missing or invalid option

```
SQL> create pluggable database sbi_savings;
```

```
create pluggable database sbi_savings
```

```
*
```

ERROR at line 1:

ORA-00922: missing or invalid option

```
SQL> create pluggable database sbi_sav admin user hanuman identified by hanuman;
```

Pluggable database created.

```
SQL>
```

```
SQL> show pdbs;
```

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB\$SEED	READ ONLY	NO
3	CANARA_SAV	READ WRITE	NO
4	SBI_SAV	MOUNTED	

```
SQL> alter pluggable database all open;
```

Pluggable database altered.

```
SQL>
```

```
SQL> show pdbs;
```

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
2	PDB\$SEED	READ ONLY	NO
3	CANARA_SAV	READ WRITE	NO
4	SBI_SAV	READ WRITE	NO

SQL> alter session set container=canara_sav;

Session altered.

SQL>

SQL> create user salaar identified by salaar;

User created.

SQL>

SQL> grant connect,resource to salaar;

Grant succeeded.

SQL> grant imp_full_database.exp_full_database to salaar;

grant imp_full_database.exp_full_database to salaar

*

ERROR at line 1:

ORA-00990: missing or invalid privilege

SQL> grant imp_full_database,exp_full_database to salaar;

Grant succeeded.

SQL>

SQL>

SQL> alter session set container=sbi_sav;

Session altered.

SQL>

SQL>

SQL> alter session set container=canara_sav;

Session altered.

SQL>

SQL>

SQL> grant imp_full_database,exp_full_database to scott;

Grant succeeded.

SQL>

SQL>

SQL> alter session set container=sbi_sav;

Session altered.

SQL>

SQL> create database link canara_sav link connect to scott identified by tiger using 'to_canara_sav';

create database link canara_sav link connect to scott identified by tiger using 'to_canara_sav'

*

ERROR at line 1:

ORA-00933: SQL command not properly ended

```
SQL> create database link canara_sav_link connect to scott identified by tiger using 'to_canara_sav';
```

Database link created.

```
SQL>
```

```
SQL> select * from tab@canara_sav_link;
```

TNAME

TABTYPE CLUSTERID

DEPT

TABLE

EMP

TABLE

BONUS

TABLE

TNAME

TABTYPE CLUSTERID

SALGRADE

TABLE

```
SQL>
```

SQL>

SQL>

SQL>

SQL> create directory sbi_dir as '/u01/datapump';

Directory created.

SQL>

SQL>

SQL> show pdbs;

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
4	SBI_SAV	READ WRITE	NO

SQL>

2nd tab

[oracle@sai ~]\$ cd \$ORACLE_HOME/network/admin

[oracle@sai admin]\$ vi tnsnames.ora

[oracle@sai admin]\$ vi listener.ora

[oracle@sai admin]\$ vi tnsnames.ora

[oracle@sai admin]\$ lsnrctl start

[oracle@sai admin]\$ lsnrctl start

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 14-MAR-2024 11:55:19

Copyright (c) 1991, 2019, Oracle. All rights reserved.

Starting /u01/app/oracle/product/19.0.0.0/dbhome_1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 19.0.0.0.0 - Production

System parameter file is /u01/app/oracle/product/19.0.0.0/dbhome_1/network/admin/listener.ora

Log messages written to /u01/app/oracle/diag/tnslsnr/sai/listener/alert/log.xml

Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=192.168.0.143)(PORT=1521)))

Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=192.168.0.143)(PORT=1521)))

STATUS of the LISTENER

Alias LISTENER

Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production

Start Date 14-MAR-2024 11:55:22

Uptime 0 days 0 hr. 0 min. 2 sec

Trace Level off

Security ON: Local OS Authentication

SNMP OFF

Listener Parameter File /u01/app/oracle/product/19.0.0.0/dbhome_1/network/admin/listener.ora

Listener Log File /u01/app/oracle/diag/tnslsnr/sai/listener/alert/log.xml

Listening Endpoints Summary...

(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=192.168.0.143)(PORT=1521)))

Services Summary...

Service "abc_abc" has 1 instance(s).

Instance "proddb", status UNKNOWN, has 1 handler(s) for this service...

Service "axis_current" has 1 instance(s).

Instance "proddb", status UNKNOWN, has 1 handler(s) for this service...

Service "canara_sav" has 1 instance(s).

Instance "proddb", status UNKNOWN, has 1 handler(s) for this service...

Service "proddb" has 1 instance(s).

Instance "proddb", status UNKNOWN, has 1 handler(s) for this service...

Service "sbi_sav" has 1 instance(s).

Instance "proddb", status UNKNOWN, has 1 handler(s) for this service...

The command completed successfully


```
[oracle@sai admin]$ impdp directory=sbi_dir logfile=canara_sav_link.log schemas=scott
network_link=canara_sav_link REMAP_TABLESPACE=CANARA_TS:sbi_ts
```

Import: Release 19.0.0.0.0 - Production on Thu Mar 14 12:38:54 2024

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

Username: sys/oracledb@to_sbi_sav as sysdba

Connected to: Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

```
Starting "SYS"."SYS_IMPORT_SCHEMA_01": sys/*****@to_sbi_sav AS SYSDBA directory=sbi_dir
logfile=canara_sav_link.log schemas=scott network_link=canara_sav_link
REMAP_TABLESPACE=CANARA_TS:sbi_ts
```

Estimate in progress using BLOCKS method...

Processing object type SCHEMA_EXPORT/TABLE/TABLE_DATA

Total estimation using BLOCKS method: 192 KB

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/TABLESPACE_QUOTA

ORA-39083: Object type TABLESPACE_QUOTA:"SCOTT"."USERS" failed to create with error:

ORA-00959: tablespace 'USERS' does not exist

Failing sql is:

```
DECLARE TEMP_COUNT NUMBER; SQLSTR VARCHAR2(200); BEGIN SQLSTR := 'ALTER USER
"SCOTT" QUOTA UNLIMITED ON "USERS"'; EXECUTE IMMEDIATE SQLSTR; EXCEPTION WHEN
OTHERS THEN IF SQLCODE = -30041 THEN SQLSTR := 'SELECT COUNT(*) FROM
USER_TABLESPACES WHERE TABLESPACE_NAME = "USERS" AND CONTENTS =
"TEMPORARY"'; EXECUTE IMMEDIATE SQLSTR INTO TEMP_COUNT; IF TEMP_COUNT = 1 THEN
RETURN; ELSE RAISE; END IF; ELSE RAISE; END IF;END;
```

Processing object type SCHEMA_EXPORT/PRE_SCHEMA/PROCACT_SCHEMA

Processing object type SCHEMA_EXPORT/TABLE/TABLE

.. imported "SCOTT"."DEPT" 4 rows

.. imported "SCOTT"."EMP" 14 rows

.. imported "SCOTT"."SALGRADE" 5 rows

.. imported "SCOTT"."BONUS" 0 rows

Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/CONSTRAINT

Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/INDEX_STATISTICS

Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/REF_CONSTRAINT

Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS

Processing object type SCHEMA_EXPORT/STATISTICS/MARKER

Job "SYS"."SYS_IMPORT_SCHEMA_01" completed with 1 error(s) at Thu Mar 14 12:40:25 2024
elapsed 0 00:00:42

[oracle@sai admin]\$ impdp directory=sbi_dir logfile=canara_sav_link.log schemas=scott
network_link=canara_sav_link REMAP_TABLESPACE=canara_ts:sbi_ts

Import: Release 19.0.0.0.0 - Production on Thu Mar 14 12:48:19 2024

Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

Username: sys/oracledb@to_sbi_sav as sysdba

Connected to: Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Starting "SYS"."SYS_IMPORT_SCHEMA_01": sys/*****@to_sbi_sav AS SYSDBA directory=sbi_dir
logfile=canara_sav_link.log schemas=scott network_link=canara_sav_link
REMAP_TABLESPACE=canara_ts:sbi_ts

Estimate in progress using BLOCKS method...

Processing object type SCHEMA_EXPORT/TABLE/TABLE_DATA

Total estimation using BLOCKS method: 192 KB

Processing object type SCHEMA_EXPORT/USER

ORA-31684: Object type USER:"SCOTT" already exists

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/TABLESPACE_QUOTA

Processing object type SCHEMA_EXPORT/PRE_SCHEMA/PROCACT_SCHEMA

Processing object type SCHEMA_EXPORT/TABLE/TABLE

ORA-39151: Table "SCOTT"."BONUS" exists. All dependent metadata and data will be skipped due to table_exists_action of skip

ORA-39151: Table "SCOTT"."DEPT" exists. All dependent metadata and data will be skipped due to table_exists_action of skip

ORA-39151: Table "SCOTT"."SALGRADE" exists. All dependent metadata and data will be skipped due to table_exists_action of skip

ORA-39151: Table "SCOTT"."EMP" exists. All dependent metadata and data will be skipped due to table_exists_action of skip

Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/CONSTRAINT

Processing object type SCHEMA_EXPORT/TABLE/INDEX/STATISTICS/INDEX_STATISTICS

Processing object type SCHEMA_EXPORT/TABLE/CONSTRAINT/REF_CONSTRAINT

Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS

Processing object type SCHEMA_EXPORT/STATISTICS/MARKER

Job "SYS"."SYS_IMPORT_SCHEMA_01" completed with 5 error(s) at Thu Mar 14 12:49:06 2024
elapsed 0 00:00:25

[oracle@sai admin]\$ ^C

[oracle@sai admin]\$

SQL> show pdbs;

CON_ID	CON_NAME	OPEN MODE	RESTRICTED
4	SBI_SAV	READ WRITE	NO

SQL> select tablespace_name from dba_tablespaces;

TABLESPACE_NAME

SYSTEM

SYSAUX

UNDOTBS1

TEMP

SQL> create tablespace sbi_ts datafile '/u01/sbi_ts.dbf' size 50m autoextend on;

Tablespace created.

SQL> alter database default tablespace sbi_ts;

Database altered.

SQL>

SQL> select tablespace_name from dba_tablespaces;

TABLESPACE_NAME

SYSTEM

SYSAUX

UNDOTBS1

TEMP

SBI_TS

```
SQL> create tablespace users datafile '/u01/users_ts.dbf' size 10m autoextend on;
```

Tablespace created.

```
SQL>
```

```
SQL>
```

```
SQL> show username from dba_users;
```

SP2-0158: unknown SHOW option "username"

SP2-0158: unknown SHOW option "from"

SP2-0158: unknown SHOW option "dba_users"

```
SQL> select username from dba_users;
```

USERNAME

SYS

SYSTEM

XS\$NULL

DBSNMP

APPQOSSYS

GSMCATUSER

MDDATA

DBSFUSER

SYSBACKUP

REMOTE_SCHEDULER_AGENT

GGSYS

USERNAME

ANONYMOUS

GSMUSER

SYSRAC

CTXSYS

DVSY

DVF

OJVMSYS

SI_INFORMTN_SCHEMA

AUDSYS

GSMADMIN_INTERNAL

DIP

USERNAME

ORDPLUGINS

LBACSYS

MDSYS

OLAPSYS

SYSKM

ORDDATA

OUTLN

HANUMAN

ORACLE_OCM

SYSSUMF

SCOTT

USERNAME

XDB

WMSYS

SYSDG

ORDSYS

37 rows selected.

```
SQL> conn scott/tiger@192.168.0.143:1521/sbi_sav;
```

```
Connected.
```

```
SQL>
```

```
SQL>
```

```
SQL> select * from tab;
```

```
TNAME
```

```
-----
```

```
TABTYPE    CLUSTERID
```

```
-----
```

```
BONUS
```

```
TABLE
```

```
DEPT
```

```
TABLE
```

```
SALGRADE
```

```
TABLE
```

```
TNAME
```

```
-----
```

```
TABTYPE    CLUSTERID
```

```
-----
```

```
EMP
```

```
TABLE
```

```
SQL> select * from emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-------	-------	-----	-----	----------	-----	------

DEPTNO

7369	SMITH	CLERK	7902	17-DEC-80	800	
------	-------	-------	------	-----------	-----	--

20

7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300
------	-------	----------	------	-----------	------	-----

30

7521	WARD	SALESMAN	7698	22-FEB-81	1250	500
------	------	----------	------	-----------	------	-----

30

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-------	-------	-----	-----	----------	-----	------

DEPTNO

7566	JONES	MANAGER	7839	02-APR-81	2975	
------	-------	---------	------	-----------	------	--

20

7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400
------	--------	----------	------	-----------	------	------

30

7698	BLAKE	MANAGER	7839	01-MAY-81	2850	
------	-------	---------	------	-----------	------	--

30

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-------	-------	-----	-----	----------	-----	------

DEPTNO

7782 CLARK	MANAGER	7839 09-JUN-81	2450
10			

7788 SCOTT	ANALYST	7566 19-APR-87	3000
20			

7839 KING	PRESIDENT	17-NOV-81	5000
10			

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-------	-------	-----	-----	----------	-----	------

DEPTNO

7844 TURNER	SALESMAN	7698 08-SEP-81	1500	0
30				

7876 ADAMS	CLERK	7788 23-MAY-87	1100	
20				

7900 JAMES	CLERK	7698 03-DEC-81	950	
30				

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM
-------	-------	-----	-----	----------	-----	------

DEPTNO

7902 FORD	ANALYST	7566 03-DEC-81	3000	
20				

```

7934 MILLER  CLERK          7782 23-JAN-82    1300
10

```

14 rows selected.

SQL> set lines 200

SQL> set pages 200

SQL> /

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT	17-NOV-81	5000		10	
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

14 rows selected.

SQL> select * from dept;

DEPTNO	DNAME	LOC
--------	-------	-----

10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL>

SQL>

SQL> select * from salgrade;

GRADE	LOSAL	HISAL
-------	-------	-------

1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	999

[oracle@sai datapump]\$ cd \$ORACLE_HOME/network/admin

[oracle@sai admin]\$ vi tnsnames.ora

[oracle@sai admin]\$ vi tnsnames.ora

[oracle@sai admin]\$ vi tnsnames.ora

[oracle@sai admin]\$ vi listener.ora

[oracle@sai admin]\$ cat tnsnames.ora

tnsnames.ora Network Configuration File:

/u01/app/oracle/product/19.0.0.0/dbhome_1/network/admin/tnsnames.ora

Generated by Oracle configuration tools.

proddb =

```
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.143)(PORT = 1521))  
  )  
  (CONNECT_DATA =  
    (SERVICE_NAME = prodadb)  
  )  
)
```

to_canara_sav =

```
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.143)(PORT = 1521))  
  )  
  (CONNECT_DATA =  
    (SERVICE_NAME = canara_sav)  
  )  
)
```

to_icici_sav =

```
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.199)(PORT = 1521))  
  )  
  (CONNECT_DATA =  
    (SERVICE_NAME = icici_nalgonda)  
  )  
)
```

```
to_sbi_sav =  
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.143)(PORT = 1521))  
  )  
(CONNECT_DATA =  
  (SERVICE_NAME = sbi_sav)  
)  
)
```

[oracle@sai admin]\$

LISTENER LEVEL CHANGES:

```
# listener.ora Network Configuration File:  
/u01/app/oracle/product/19.0.0.0/dbhome_1/network/admin/listener.ora  
# Generated by Oracle configuration tools.
```

```
SID_LIST_LISTENER =  
(SID_LIST =  
  (SID_DESC =  
    (GLOBAL_DBNAME = proddb)  
    (ORACLE_HOME = /u01/app/oracle/product/19.0.0.0/dbhome_1)  
    (SID_NAME = proddb)  
  )  
(SID_DESC =  
  (GLOBAL_DBNAME = canara_sav)  
  (ORACLE_HOME = /u01/app/oracle/product/19.0.0.0/dbhome_1)  
  (SID_NAME = proddb)
```

```
)  
(SID_DESC =  
  (GLOBAL_DBNAME = sbi_sav)  
  (ORACLE_HOME = /u01/app/oracle/product/19.0.0.0/dbhome_1)  
  (SID_NAME = proddb)  
)  
(SID_DESC =  
  (GLOBAL_DBNAME = axis_current)  
  (ORACLE_HOME = /u01/app/oracle/product/19.0.0.0/dbhome_1)  
  (SID_NAME = proddb)  
)  
(SID_DESC =  
  (GLOBAL_DBNAME = abc_abc)  
  (ORACLE_HOME = /u01/app/oracle/product/19.0.0.0/dbhome_1)  
  (SID_NAME = proddb)  
)  
)
```

```
LISTENER =  
(DESCRIPTION =  
  (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.0.143)(PORT = 1521))  
)
```

ADR_BASE_LISTENER = /u01/app/oracle

"listener.ora" 39L, 1060C