

```

[oracle@arturo ~]$ exit
exit

SQL> startup
ORACLE instance started.

Total System Global Area 2080374784 bytes
Fixed Size                2926272 bytes
Variable Size             603982144 bytes
Database Buffers          1459617792 bytes
Redo Buffers              13848576 bytes
Database mounted.
Database opened.
SQL> !
[oracle@arturo ~]$ find /u01 -name alert*.log
/u01/app/oracle/diag/rdbms/cdb1/cdb1/trace/alert_cdb1.log
[oracle@arturo ~]$ su
Password:
[root@arturo oracle]# grep -C 1 OPEN /u01/app/oracle/diag/rdbms/cdb1/trace/alert_cdb1.log
grep: /u01/app/oracle/diag/rdbms/cdb1/trace/alert_cdb1.log: No such file or directory
[root@arturo oracle]# _

```

```

CJQ0 started with pid=31, OS id=15736
Completed: ALTER DATABASE OPEN
Tue May 11 14:25:36 2021
--
Fri May 21 00:30:15 2021
ALTER DATABASE OPEN
Fri May 21 00:30:15 2021
--
Starting background process CJQ0
Completed: ALTER DATABASE OPEN
Fri May 21 00:30:30 2021
--
Completed: ALTER DATABASE RENAME FILE '/u01/app/oracle/oradata/cdb1/system01.dbf' TO '/u05/system01.
dbf'
ALTER DATABASE OPEN
Fri May 21 00:42:09 2021
--
CJQ0 started with pid=31, OS id=13021
Completed: ALTER DATABASE OPEN
Fri May 21 00:42:14 2021
--
Fri May 21 00:49:12 2021
ALTER DATABASE OPEN
Fri May 21 00:49:12 2021
--
CJQ0 started with pid=31, OS id=13009
Completed: ALTER DATABASE OPEN
Fri May 21 00:49:17 2021
--
Mon Jun 28 14:37:52 2021
ALTER DATABASE OPEN
Mon Jun 28 14:37:53 2021
--
Starting background process CJQ0
Completed: ALTER DATABASE OPENMon Jun 28 14:38:20 2021

[root@arturo oracle]#

```

```
SQL> show parameters background_dump_dest;
```

NAME	TYPE	VALUE
background_dump_dest	string	/u01/app/oracle/product/12.1.0 .2/db_1/rdbms/log

```
SQL> shutdown immed
```

```
SQL> CREATE INDEX FIRST_NAME_LAST_NAME_IDX ON HR.EMPLOYEES(CONCAT(FIRST_NAME, LAST_NAME));
```

```
Index created.
```

```
SQL> CREATE INDEX POSTAL_CODE_NOUNIQUE_IDX ON HR.LOCATIONS(POSTAL_CODE);
```

```
Index created.
```

```
SQL> SELECT INDEX_NAME, INDEX_TYPE, UNIQUENESS FROM DBA_INDEXES WHERE INDEX_NAME='FIRST_NAME_LAST_NAME_IDX' OR INDEX_NAME='POSTAL_CODE_NOUNIQUE_IDX';
```

INDEX_NAME	INDEX_TYPE	UNIQUENESS
POSTAL_CODE_NOUNIQUE_IDX	NORMAL	NONUNIQUE
FIRST_NAME_LAST_NAME_IDX	FUNCTION-BASED NORMAL	NONUNIQUE

```
SQL>
```

```
SQL> startup mount
```

```
ORACLE instance started.
```

```
Total System Global Area 2080374784 bytes
```

```
Fixed Size 2926272 bytes
```

```
Variable Size 603982144 bytes
```

```
Database Buffers 1459617792 bytes
```

```
Redo Buffers 13848576 bytes
```

```
Database mounted.
```

```
SQL> alter database nomount;
```

```
alter database nomount
```

```
*
```

```
ERROR at line 1:
```

```
ORA-02231: missing or invalid option to ALTER DATABASE
```

```
SQL> shutdown immediate
```

```
ORA-01109: database not open
```

```
Database dismounted.
```

```
SQL> select index_name,tablespace_name from dba_indexes where owner='HR';
```

INDEX_NAME	TABLESPACE_NAME
COUNTRY_C_ID_PK	EXAMPLE
JHIST_EMP_ID_ST_DATE_PK	HR_IDX_TBS
JHIST_JOB_IX	HR_IDX_TBS
JHIST_EMPLOYEE_IX	HR_IDX_TBS
JHIST_DEPARTMENT_IX	HR_IDX_TBS
EMP_EMP_ID_PK	HR_IDX_TBS
EMP_DEPARTMENT_IX	HR_IDX_TBS
EMP_JOB_IX	HR_IDX_TBS
EMP_MANAGER_IX	HR_IDX_TBS
EMP_NAME_IX	HR_IDX_TBS
EMP_EMAIL_UK	HR_IDX_TBS
JOB_ID_PK	HR_IDX_TBS
DEPT_ID_PK	HR_IDX_TBS
DEPT_LOCATION_IX	HR_IDX_TBS
LOC_ID_PK	HR_IDX_TBS
LOC_CITY_IX	HR_IDX_TBS
LOC_STATE_PROVINCE_IX	HR_IDX_TBS
LOC_COUNTRY_IX	HR_IDX_TBS
REG_ID_PK	HR_IDX_TBS

```
19 rows selected.
```

```
SQL> _
```