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1. Getting Started with Database Administration

1.1. Types of Oracle Database Users

1.2. Identifying your Oracle Database Software Release

```
SQL> COL PRODUCT FORMAT A35
SQL> COL VERSION FORMAT A15
SQL> SELECT * FROM PRODUCT_COMPONENT_VERSION;
```

PRODUCT	VERSION	STATUS
NLSRTL	12.1.0.2.0	Production
Oracle Database 12c Enterprise Edition	12.1.0.2.0	64bit Production
PL/SQL	12.1.0.2.0	Production
TNS for Linux:	12.1.0.2.0	Production

2. Submitting Commands and SQL to the Database

3. Starting Up and Shutting Down

3.1. Starting Up a Database

```
oracle@linsrv2:~> sqlplus /nolog

SQL*Plus: Release 12.1.0.2.0 Production on Mon Dec 26 22:03:35 2016

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SQL> connect system/manager as sysdba
Connected to an idle instance.
SQL> startup
ORACLE instance started.

Total System Global Area 4966055936 bytes
Fixed Size 2934552 bytes
Variable Size 1023412456 bytes
Database Buffers 3925868544 bytes
Redo Buffers 13840384 bytes
Database mounted.
Database opened.
SQL> █
```

3.2. About Initialization Parameters and Startup

To start an instance, the database must read the instance configuration parameters (the initialization parameters) from either a server parameter file (SPFILE) or a text initialization parameter file.

When you issue the SQL*Plus startup command, the database attempts to read the initialization parameters from an SPFILE in a platform-specific default location. If it finds no SPFILE, it searches for a text initialization parameter file.

```
oracle@linsrv2:/u01/app/product/12.1.0/db1/dbs> ls -la
total 28
drwxr-xr-x  2 oracle oinstall   94 Dec 26 22:48 .
drwxr-xr-x 70 oracle oinstall 4096 Dec 26 22:12 ..
-rw-rw----  1 oracle oinstall 1544 Dec 26 22:48 hc_orcl.dat
-rw-r--r--  1 oracle oinstall 2992 Feb  3 2012 init.ora
-rw-r-----  1 oracle oinstall  24 Dec 22 22:25 lkORCL
-rw-r-----  1 oracle oinstall 7680 Dec 22 22:28 orapworcl
-rw-r-----  1 oracle oinstall 3584 Dec 26 22:05 spfileorcl.ora
```

3.3. Shutting Down a Database

3.3.1. Shutting Down with the NORMAL Clause

```
SQL> shutdown normal
Database closed.
Database dismounted.
ORACLE instance shut down.
```

3.3.2. Shutting Down with the IMMEDIATE Clause

```
SQL> shutdown immediate
Database closed.
Database dismounted.
ORACLE instance shut down.
```

3.3.3. Shutting Down with the TRANSACTIONAL Clause

```
SQL> shutdown transactional
Database closed.
Database dismounted.
ORACLE instance shut down.
```

3.3.4. Shutting Down with the ABORT Clause

```
SQL> shutdown abort
ORACLE instance shut down.
SQL> █
```