# Data Guard Switchover with Physical Standby Database

**Task to perform Before Switchover**:

**1. Verify the primary database instance is open and the standby database instance is mounted.**

SQL> select name,open\_mode,database\_role from v$database;

**2. Verify there are no active users connected to the databases.**

**3. Make sure the last redo data transmitted from the Primary database was applied on the standby database. Issue the following commands on Primary database and Standby database to find out:**

SQL>select max(Sequence#) from v$archived\_log;

SQL>select max(Sequence#) from v$archived\_log where applied=’YES’;

SQL>select sequence#, applied from v$archvied\_log;

**Switchover Steps**

1. **On the primary database**

Connect to primary database

SQL>connect /@primary as sysdba

SQL> ALTER DATABASE COMMIT TO SWITCHOVER TO PHYSICAL STANDBY WITH SESSION SHUTDOWN;

1. **After step 1 finishes, Switch the original physical standby database to primary role;**

**Open another prompt and connect to SQLPLUS**:

SQL>connect /@Standby as sysdba

SQL> ALTER DATABASE COMMIT TO SWITCHOVER TO PRIMARY ;

**3. Immediately after issuing command in step 2, shut down and restart the former primary instance :**

SQL>SHUTDOWN IMMEDIATE;

SQL>STARTUP NOMOUNT;

SQL>ALTER DATABASE MOUNT STANDBY DATABASE;

SQL>ALTER DATABASE RECOVER MANAGED SATNDBY DATABASE USING CURRENT LOG FILE DISCONNECT FROM SESSION ;

**4. After step 3 completes: shut down and restart the former standby instance :**

SQL>SHUTDOWN IMMEDIATE;

SQL>STARTUP;

**5. On the new primary database, perform a SWITCH LOGFILE to start sending redo data to the new standby database**.

SQL>ALTER SYSTEM SWITCH LOGFILE;

**6. Make sure the redo data transmitted from the Primary database was applied on the standby database. Issue the following commands on Primary database and Standby database to find out:**

SQL>select max<Sequence#> from v$archived\_log;

SQL>select max<Sequence>/ from v$archived\_log where applied=’YES’;

SQL>select sequence#, applied from v$archvied\_log;