Now to orphan some inodes

mkdir d1/foo

Here is a file " > d1/foo/afile.txt

Here is another file " > d1/foo/another.txt
root@it4100-a1-sample:~/.local/share/mymounts# ls -l d1/foo/
total 2
-rw-r--r-- 1 root root 16 Jan 23 13:37 afile.txt
-rw-r--r-- 1 root root 22 Jan 23 13:37 another.txt
root@it4100-a1-sample:~/mymounts# sudo debugfs -b 1024 /dev/sda5 -w
root@it4100-a1-sample:~/mymounts# sudo debugfs -b 1024 /dev/sda5 -w
ddebugfs 1.42.13 (17-May-2015)
debugfs: clri foo
debugfs: q
mount /dev/sda5 d1
ls -l d1/
ls: cannot access 'd1/foo': Structure needs cleaning
 total 1
 drwx------ 2 root root 1024 Jan 23 13:36 lost+found

umount d1/

root@it4100-a1-sample:~/.mymounts# !?fsck

fsck.ext4 /dev/sda5
e2fsck 1.42.13 (17-May-2015)
/dev/sda5 contains a file system with errors, check forced.

Pass 1: Checking inodes, blocks, and sizes
Pass 2: Checking directory structure
Entry 'foo' in / (2) has deleted/unused inode 65025. Clear<y>? no
Entry 'foo' in / (2) has an incorrect filetype (was 2, should be 0).
Fix<y>? yes
Pass 3: Checking directory connectivity
Pass 4: Checking reference counts
Inode 2 ref count is 4, should be 3. Fix<y>? yes
Unattached inode 65026
Connect to /lost+found<y>? yes
Inode 65026 ref count is 2, should be 1. Fix<y>? yes
Unattached inode 65027
Connect to /lost+found<y>? yes
Inode 65027 ref count is 2, should be 1. Fix<y>? yes
Pass 5: Checking group summary information
Block bitmap differences: -266241
Fix<y>? yes
Free blocks count wrong for group #32 (4095, counted=4096).
Fix<y>? yes
Free blocks count wrong (485342, counted=485343).
Fix<y>? yes
Unattached inode 65027
Connect to /lost+found<y>? yes
Inode 65027 ref count is 2, should be 1. Fix<y>? yes
Pass 5: Checking group summary information
Block bitmap differences: -266241
Fix<y>? yes
Free blocks count wrong for group #32 (4095, counted=4096).
Fix<y>? yes
Free blocks count wrong (485342, counted=485343).
Fix<y>? yes
Inode bitmap differences: -65025
Fix<y>? yes
Free inodes count wrong for group #32 (2029, counted=2030).
Fix<y>? yes
Directories count wrong for group #32 (1, counted=0).
Fix<y>? yes
Free inodes count wrong (128002, counted=128003).
Fix<y>? yes

/dev/sda5: ***** FILE SYSTEM WAS MODIFIED *****

/dev/sda5: *********** WARNING: Filesystem still has errors ***********

/dev/sda5: 13/128016 files (0.0% non-contiguous), 26657/512000 blocks
root@it4100-a1-sample:~/.mymounts# !?mount
umount d1/
mount: d1/: not mounted
root@it4100-a1-sample:~/.mymounts# mount /dev/sda5 d1
root@it4100-a1-sample:~/.mymounts# ls -l d1/
ls: cannot access 'd1/foo': Structure needs cleaning

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root@it4100-a1-sample:~/.mymounts# ls -l d1/foo
ls: cannot access 'd1/foo': Structure needs cleaning

root@it4100-a1-sample:~/.mymounts# ls -l d1/lost+found/
total 2
-rw-r--r-- 1 root root 16 Jan 23 13:37 #65026
-rw-r--r-- 1 root root 22 Jan 23 13:37 #65027
root@it4100-a1-sample:~/.mymounts#
Here is a file
Here is another file