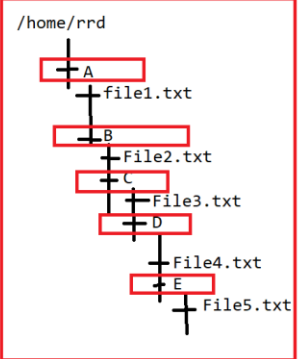


Difference between find and locate command

find	- locate
1) find command searches for files and directory in the file system	1) locate command searches file and directory in the database
2) find command is more powerfull than locate command.	2) locate command is less powerfull than find
3) We can find files based on size, type permission, user, group created time etc	3) locate command searches file only on the of name and permission
4) We can reduce depth of search	4) We cannot reduce depth of search
5) find command will produce accute result as it searches in file system	5) locate command will not produce accurat result as it searches in DB and if DB is not update then we will get wrong result
6) find command execution is slower than locate	6) locate command execution is faster than find command
7) ones we get result, we can perform some operation on that result by using -exec option	7) ones we get result, we cannot perform operations on that result

**** maxdepth option of find command**

-> bydefault find command will search in all depth level, but based on our requirement we can specify the required depth level by using maxdepth option



```

mkdir A
touch A/File1.txt
mkdir A/B
touch A/B/File2.txt
mkdir A/B/C
touch A/B/C/File3.txt
mkdir A/B/C/D
touch A/B/C/D/File4.txt
mkdir A/B/C/D/E
touch A/B/C/D/E/File5.txt

```

Example 1

```
find
```

It will display sear~~ch~~ result with all depth level

Example 2: `find . maxdepth 1`

Example 3: `find . maxdepth 2`

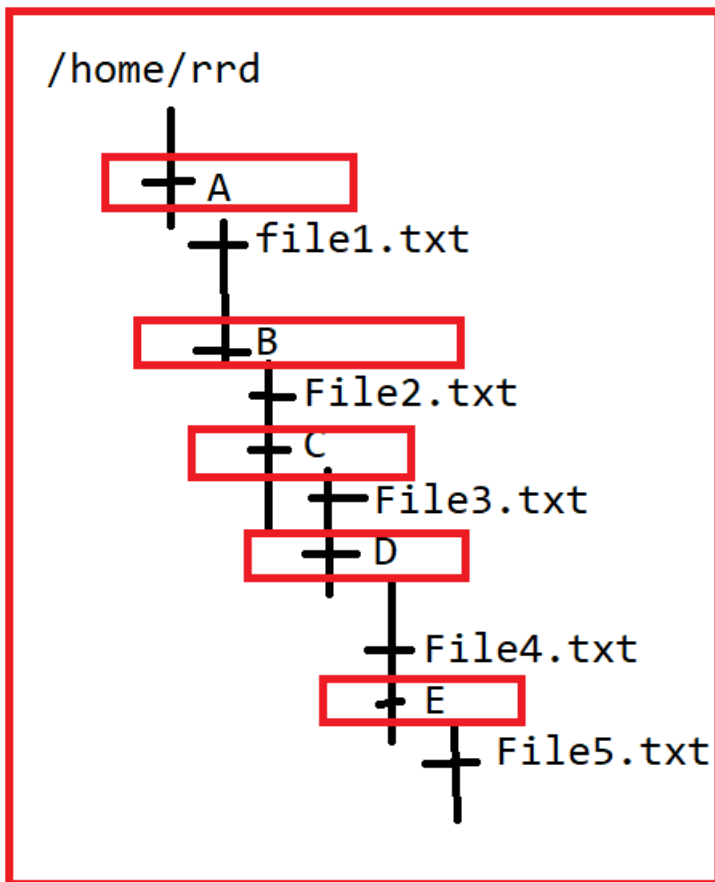
Example 4: `find . maxdepth 3`

observe the result by executing above commands

**** maxdepth option of find command**

-> bydefault find command will search in all depth level, but based on our requirement we can specify the required depth level by using maxdepth option

Consider below structure



Creation above structure

```
mkdir A
touch A/File1.txt
mkdir A/B
touch A/B/File2.txt
mkdir A/B/C
touch A/B/C/File3.txt
mkdir A/B/C/D
touch A/B/C/D/File4.txt
mkdir A/B/C/D/E
touch A/B/C/D/E/File5.txt
```

Example 1

`find`

It will display search result with all depth level

Example 2: `find . maxdepth 1`

Example 3: `find . maxdepth 2`

Example 4: `find . maxdepth 3`

observe the result by executing above commands

Note: for maxdepth option we should use single - but not double --

`-maxdepth => valid`

`--maxdepth => invalid`

Note : find command will find hidden files and directory also

Note: we can use maxdepth option with another option like(size, user, ctime etc) but we should use maxdepth option first and then use another options

`find -type f -maxdepth 2 => Generate warning`

`find -maxdepth 2 -type f => No warning`