

# Creating PDBs More Options

Part III

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# Objectives

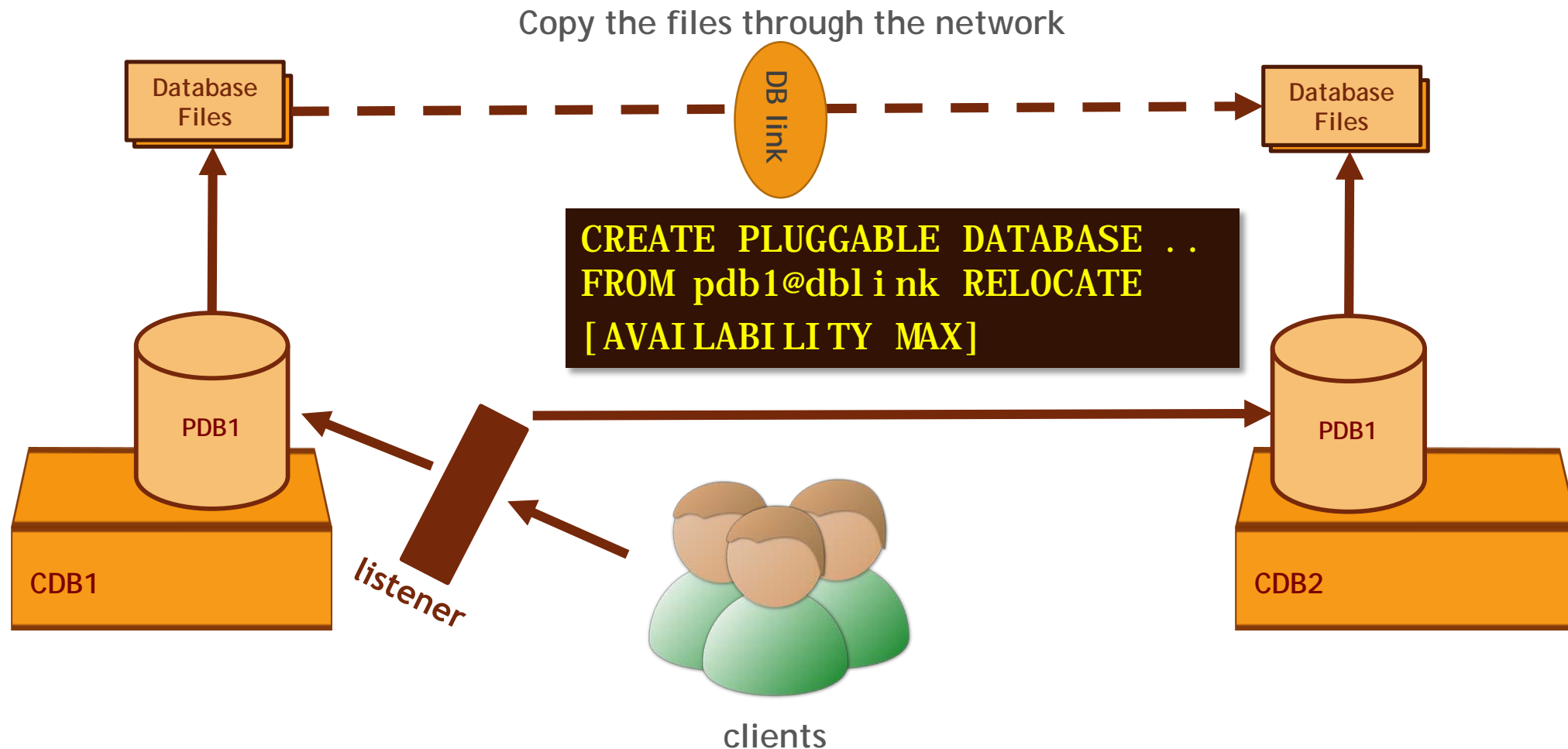
By the end of this lecture, you should be able to:

- Relocate a PDB
- Create a proxy PDB
- Create a refreshable PDB

# Options for Creating a PDB using CREATE PLUGGABLE DATABASE command

Category	Option	Description
Copying	From the seed	By using the files of the CDB seed or application seed.
	Clone a local PDB	By cloning a source local PDB.
	Clone a remote PDB	By cloning a remote PDB.
	Clone a non-CDB	By cloning a non-CDB.
Plugging In	Plugging in an Unplugged PDB	By plugging in an unplugged PDB
	Adopting a Non-CDB as a PDB (Using the DBMS_PDB)	By creating an unplugged PDB from a non-CDB and then plug the unplugged PDB into the CDB.
Relocating	Relocating a PDB	By moving the files associated with the PDB to a new location.
Proxy PDB	Creating a PDB as a proxy PDB	By referencing a different PDB with a database link

# About Relocating a PDB





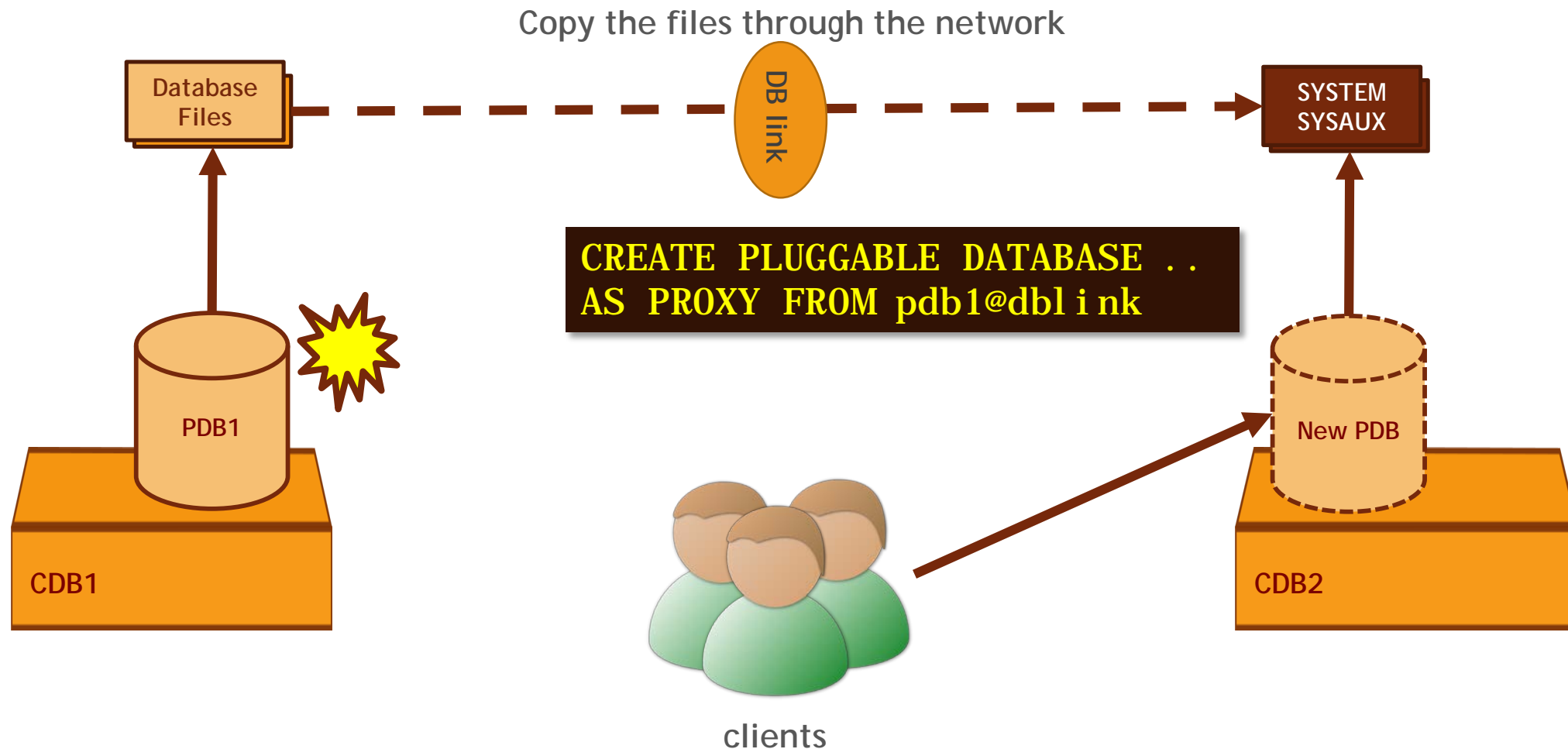
# Relocating a PDB Procedure

1. Connect to the root as a common user (**SYSOPER**)
2. Create the database link to the source pdb
3. Relocate the PDB. The name of the target pdb must be the same as the name of the source pdb.

```
CREATE PLUGGABLE DATABASE pdb4 FROM pdb4@sourcedb  
FILE_NAME_CONVERT=('..', '..') RELOCATE  
[AVAILABILITY MAX];
```

4. Open the PDB in read/write mode

# About Creating a Proxy PDB



# Creating a Proxy PDB Procedure

1. Connect to the root as a common user
2. Create the database link to the source root or pdb
3. Create the Proxy PDB

```
CREATE PLUGGABLE DATABASE pdb4 AS PROXY  
FROM srcpdb@sourcedb;
```

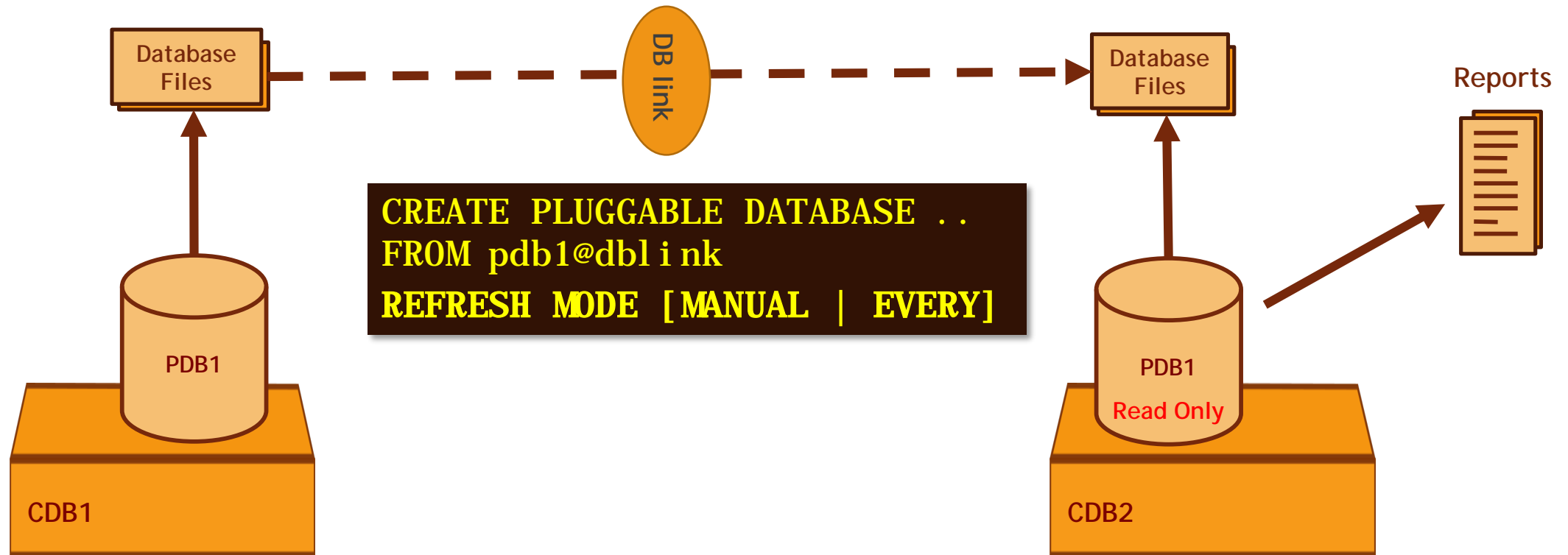
4. Open the PDB in read/write mode

# Options for Creating a PDB using CREATE PLUGGABLE DATABASE command

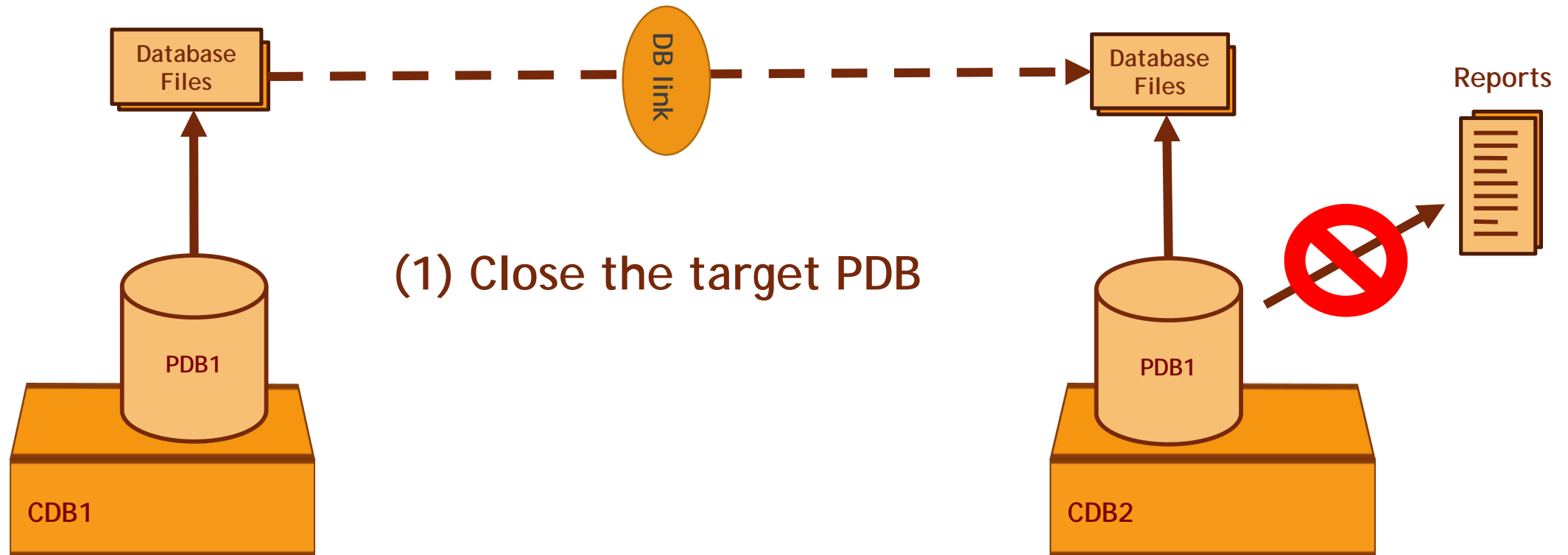
Category	Option	Description
Copying	From the seed	By using the files of the CDB seed or application seed.
	Clone a local PDB	By cloning a source local PDB.
	Clone a remote PDB	By cloning a remote PDB. [refresh mode supported in 12.2]
	Clone a non-CDB	By cloning a non-CDB.
Plugging In	Plugging in an Unplugged PDB	By plugging in an unplugged PDB
	Adopting a Non-CDB as a PDB (Using the DBMS_PDB)	By creating an unplugged PDB from a non-CDB and then plug the unplugged PDB into the CDB.
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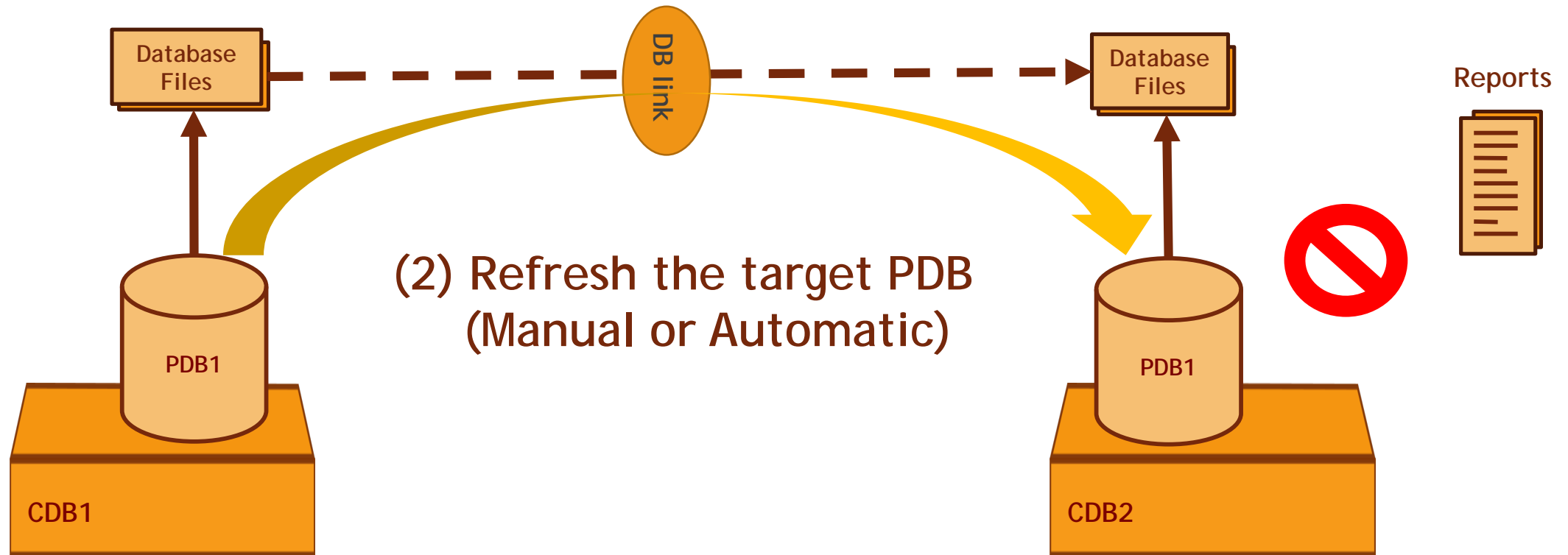
# Creating a Refreshable PDB



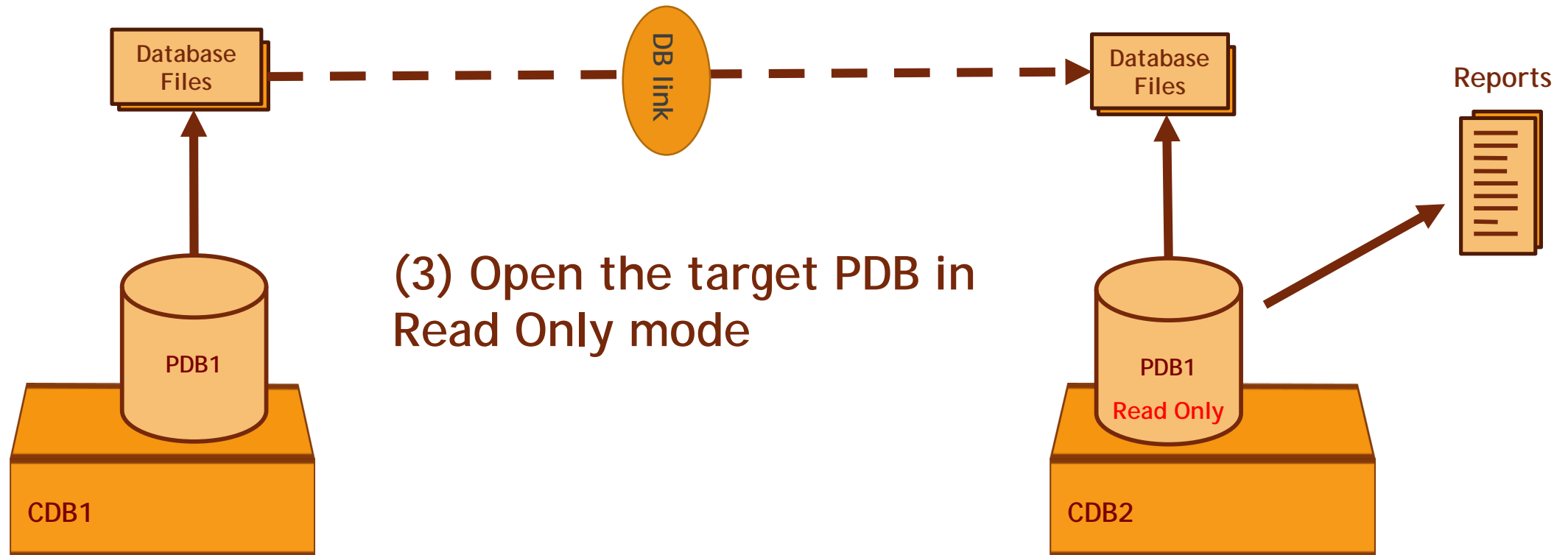
# Refreshing a PDB



# Refreshing a PDB



# Refreshing a PDB





# About Refreshable PDB Clones

- Supported only in a **CREATE PLUGGABLE DATABASE .. FROM**
- Target and source PDBs must be in separate CDBs
- **REFRESH MODE** options:
  - MANUAL
  - EVERY n MINUTES
  - NONE
- Can be opened only in READ ONLY mode
- Must be closed before refreshing
- New data files added to the source will also get synched

# Creating a Refreshable PDB Procedure

1. Connect to the root as a common user
2. Create the database link to the source root or pdb
3. Create the refreshable PDB

```
CREATE PLUGGABLE DATABASE pdb_rpt FROM pdb_prod@prod_l i nk  
REFRESH MODE MANUAL;
```

```
CREATE PLUGGABLE DATABASE pdb_rpt FROM pdb_prod@prod_l i nk  
REFRESH MODE EVERY 60 MINUTES;
```

4. Open the PDB in Read Only mode

# Summary

In this lecture, you should have learnt the following:

- Relocate a PDB
- Create a proxy PDB
- Create a refreshable PDB