

MONEEB TOOR.
221048.

Activity

• Backup

is the process of creating ~~to protect it~~ a copy of data to protect it from loss due to accidental deletion, hardware failure or other issues. It ensures that data can be restored to previous state in case of corruption.

1) Full Backup

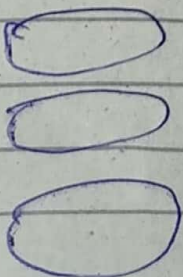
Definition: A complete backup of all data every time is performed.

Pros:- Provides the most comprehensive recovery option.

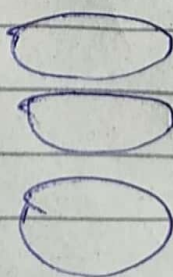
• Simple to restore in single backup

Cons:- Time consuming
Require more storage space.

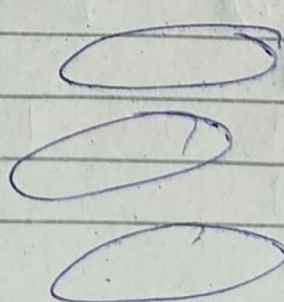
1st backup



2nd backup



3rd Backup



Incremental Backup.

Definition. Only backup data that has changed since the last backup.
(whether Full or incremental).

Pros.

Fast and require less storage space.

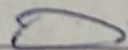
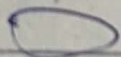
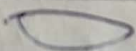
Cons

Recovery can be time-consuming as it requires multiple set of backup (last Full + incremental)

1st Backup

2nd Backup

3rd Backup



Differential Backup

Definition. Backup data that has changed since last Full Backup.

Pros Faster than full Backup and easier to recover than incremental.

Cons

The size of Backup increases over time since it keep adding all changes.

1st Backup

2nd Backup

3rd Backup

