Recovery Manager API

Due to popular demand the recovery manager will be part of the transaction manager as the transaction manager would be responsible for calling the shots anyway. So technically, these methods are part of the transaction manager.

recovery()

This is called every time the database system starts up in order to initiate the recovery phase, which is outlined in section 1.6.4.2 on page 736. It is important to note that the log manager must have a getCheckpoint() and getReverseLog() functions that return smarterators of corresponding transaction ids.

rollback(trid)

This function this with rolling back a specific transaction as part of the regular database operation. The process is outlined in section 1.6.4.2 on page 736. This is where the transaction ids from the getReverseLog() log manager function come into play.

forceLog()

This function writes the buffered log to the disk, an important part of implementing write ahead logging (WAL)