Exercise 1: Explain concrete recovery strategies after errors in databases. Discuss advantages and disadvantages of these strategies.

Exercise 2: Explain the process of a recovery after an error?

Exercise 3: Explain the process of the Redo protocol based on the following example. To do this, explain all necessary components and describe the recovery process. Given is the schedule $s = r_1(x)w_1(x)r_2(y)c_1w_2(y)c_2$, whereby a system failure occurs directly after operation $w_2(y)$.

Exercise 4: What approach pursues the shadow memory technique?

Exercise 5: Which methods offer the possibility of recovering a database after the occurrence of a media error? What types can be distinguished?

Good Luck!