**Case study for a video store system**

**You are to design a system to track the activities of a video store.**

1. A “video” can be in any medium: tape, DVD, and so on.
2. For the video store system, clerks in the video store perform daily operations
3. Customers must register with the store as memberships before they can rent videos. Registration information includes standard demographic information such as address, phone number, driver’s license, etc. Each customer has a separate membership
4. The store tracks the videos that each customer currently has rented, which of them are overdue, and what outstanding overdue charges the customer is liable for.
5. When a video is rented, it is moved from in-store inventory to the customer’s possession. When it is returned, it goes back into in-store inventory.
6. When a customer rents one or more videos, a rental agreement is generated, and the customer pays the rental fees for them. When the videos are returned, overdue charges are determined, where appropriate. The customer either pays the fines at that time.
7. Clerks in the video store can manage memberships
8. Clerks and manager in the video store can query video catalogs and rental information. Manager can examine the rental report(system should generate weekly report)
9. Administrator can manage the users for the video store system.
10. All the users must log in the system before they can use the system.