

EXPERIMENT N0-1

AIM: Design an Entity-Relationship (ER) Model for the given case study and detail statement of the problem.

CASE STUDY:

12. Acres Health and Fitness Club

The Acres Health and Fitness Club is a health and fitness club. It has a large range of facilities including fully equipped gym, swimming pool and squash. The club has around 1000 active members. It is open 7 days a week, from 7a.m. until 10 p.m. Members pay a monthly fee. Members have unlimited access to all the facilities.

A software needs to be created to help in the reservation of all the facilities to the members for a particular date and time. There are 2 squash courts, max. 50 people can work out in the gymnasium, 2 common swimming pools and a ladies and kids pool. If the member has not reserved the facility for him/herself, then the usage is subjected to availability.

The software application would have GUI's for

- Enrolling a new member
- Generating a receipt fees received
- Showing the status of reservation of the gym, swimming pool and squash court.
- Reservation or Cancellation of a facility.
- Acknowledgement for Reservation or Cancellation of a facility.
- Login, so that only authorized person can to the reservation and cancellation.

The database will have the member details, fees details, and record of availability of the gym, swimming pool and squash court.

ER-DIAGRAM:

