Database Management Project

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Scenario: Gym Membership Management

Purpose and key functions: The gym membership management system helps is storing the information of its members, trainers, and particular class information right at one place secured. It tracks the membership and automatically renews the membership which have been due and make sure the members are linked to the right class at right time. Trainers’ specialty is also kept in mind while assigning them to different individuals who have different goals. Monthly attendance of the gym s employees is also maintained which affect the overall gym experience. This data-driven approach helps improve decision-making, identify trends, and optimize resources. Ultimately, it enhances the member experience through better service, communication, and class offerings.

The type of reports they would need-

1. Revenue report
2. Membership renewal report
3. Trainers’ performance report
4. Maintenance report
5. Resource utilization report

Entities included in database-

1. Members
   1. MemberID(Primary Key)
   2. Joining date
   3. Name
   4. Email
   5. phone number
2. Trainers
   1. TrainerID(Primary Key)
   2. Name
   3. Email
   4. Phone Number
   5. Specialty
3. Classes
   1. ClassID(Primary Key)
   2. Schedule
   3. TrainerID(foreign key for trainers)
   4. Name
   5. MemberID(Foreign key for members)
4. Membership plans
   1. PlanID(Primary Key)
   2. PlanType
   3. Cost
   4. Duration

