Project 1 – Karate Club (Requirements)



Create Relational Schema for the following project:

Here are the database requirements for a Karate Club:

1. Membership Management:

- The system should allow the creation and management of member profiles, including personal information, contact details, emergency contact information, and membership status.
- Member information (Name, Address, ContactInfo, Emergency Contact)
- Each Member can have subscription Periods and each period should have (StartDate, EndDate, Fees, IsPaid).
- Members should be able to enroll in the karate club, renew their memberships, and update their information as needed.
- The system should track membership start and end dates, as well as membership status (active/inactive).

2. Instructor Management:

- The system should allow the creation and management of instructor profiles, including personal information and qualifications.
- Instructor information (Name, Address, ContactInfo, Qualifications).
- Members can have many instructors.
- Multiple instructors should be able to train a single member, and each instructor should be able to train multiple members.

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Belt Rank and Testing:

- The system should support the management of different belt rank tests in karate.
- Members should be able to participate in belt rank tests to advance their ranks.
- The system should track belt test dates, results, and the instructors who conducted the tests.
- Each member's current belt rank should be recorded and updated as they pass the tests and progress.
- Belt Ranks are fixed in the system as follows:
 - 1. White Belt
 - 2. Yellow Belt
 - 3. Orange Belt
 - 4. Green Belt
 - 5. Blue Belt
 - 6. Purple Belt
 - 7. Brown Belt
 - 8. Black Belt (1st Dan)
 - 9. Black Belt (2nd Dan)
 - 10. Black Belt (3rd Dan)
 - 11. Black Belt (4th Dan)
 - 12. Black Belt (5th Dan)
 - 13. Black Belt (6th Dan)
 - 14. Black Belt (7th Dan)
 - 15. Black Belt (8th Dan)
 - 16. Black Belt (9th Dan)
 - 17. Black Belt (10th Dan)
- Each Belt Rank has a different test Fees.

4. Payment and Fee Management:

- The system should support the management of membership fees and payments as well as the test fees payments.
- Members should be able to view their payment history and make payments for membership fees.
- The system should track payment details, such as the amount, date, and payment status.
- Member can pay for subscriptions and for test as well.