1. Design the database for the below mentioned API purposes with the relation between the tables and add constraints to columns wherever applicable and make sure that the database is normalized for the above criteria. Can you explain which normal form the database is in?

## Ans) Third Normal form

1. Develop an Api that calculates member eligibility to join the team. Here are the details

**Member Entity:**

MemberID, Member Name, TechnologyID, DateOfBorth, Qualification, yearsofexperience

**Technology Entity:**

TechnologyID, TechnologyName

**Eligibility Criteria:**

• All members who are above 25 years of age, with minimum 3 years of experience in the respective technology are eligible to serve the company.

**Service Methods:**

• **MemberSearch():**

Should able to search member by **TechnologyID** and should return **MemberID and MemberName**

API Method url: api/MemberEligibility/MemberSearch?technologyID=1

• **MemberDetails()**:

Should able to return all member details based on MemberID

API Method url: api/MemberEligibility/MemberDetails?memberID=1