INFO20003 Assignment 1 - Assumptions

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In the generating the physical model the following assumptions were made:

- A member must have at least one phone number.

- Since a full list of Titles wasn't provided, titles can be input as a string.

- Members can only progress through the stages of membership and cannot revert to, for example, a 'Provisional fellow' if they were already a 'Full fellow'. This means that the `idMember` and `idMembershipCategory` are a suitable composite primary key for storing a member's membership status.

- 'Unmarried', 'Married', 'Widowed' and 'Divorced' are the only acceptable marital statuses.

- The reason for rejecting an application can be stored as a string within the application and does not have to be selected from an `ENUM()`.

- The recording of an event is stored at a URL and the URL is stored in the database.

- The layout options of a venue are recorded as a string and not an `ENUM()`.

- The status of an event ('Happening Now', 'Postponed', etc.) can be combined with the approval status ('Accepted' / 'Rejected') to make

  ```
  ENUM('Pending Approval', 'Rejected', 'Upcoming', 'Happening Now', 'Postponed',
       'Cancelled')
  ```

  since an 'Upcoming', 'Happening Now', 'Postponed' or 'Cancelled' event must have been approved.

- Postcodes cannot be stored as an `int` since some countries include letters in postcodes.

- A 2,500 word statement can be stored in 30,000 characters and a 300 word statement in 4,500 characters.

Venue
- idVenue
- Floor
- Dimensions
  - Width
  - Length
- Layout

Event
- BookingRate
- Recording
- IsPublic
- RegLink
- WebinarLink
- Date
- Status
- Type
- idEvent

Organises
- Role

Member
- DeathDate
- Title
- idMember
- PhoneNos
- Email
- DateAccepted
- CharterDate

held
- StartDate
- EndDate

Membership Category
- FellowshipStatus
- Honoured FellowshipStatus
- idCategory

Referred By
- Primary Referee
- Secondary Referee
- Written Statement
- Achievement Statement

Accepted With

Application
- idApp
- Date Applied
- Date Rejected
- Rejection Reason
- Name
  - First
  - Middle
  - Last
- DoB
- Address
- MaritalStatus

Is ReApplication For
- New Application
- Original Application

Venue
- idVenue INT
- Floor INT
- DimensionWidth FLOAT
- DimensionLength FLOAT
- Layout VARCHAR(45)
- Indexes

Event
- idEvent INT
- idVenue INT
- EventType VARCHAR(45)
- Time DATETIME
- Status ENUM(...)
- RegistrationLink VARCHAR(200)
- WebinarLink VARCHAR(200)
- IsPublic TINYINT
- HourlyBookingRate FLOAT
- Indexes

EventRecording
- idEvent INT
- idRecording INT
- RecordingLink VARCHAR(200)
- Indexes

OrganisesEvent
- idMember INT
- idEvent INT
- Role VARCHAR(45)
- Indexes

IsMemberOf
- idMember INT
- idMembershipCategory INT
- StartDate DATE
- EndDate DATE
- Indexes

Member
- idMember INT
- idApplication INT
- idMembershipCategory INT
- Title VARCHAR(15)
- DateOfCharterSigning DATE
- DateOfAcceptance DATE
- EmailAddress VARCHAR(100)
- DeathDate DATE
- Indexes

PhoneNumbers
- idMember INT
- PhoneNumber INT
- Indexes

ReferredBy
- idApplication INT
- idPrimaryReference INT
- idSecondaryReference INT
- WrittenStatement VARCHAR(30000)
- AchievementStatement VARCHAR(4500)
- Indexes

MembershipCategory
- idMembershipCategory INT
- FellowshipStatus ENUM(...)
- HonouredFellowshipStatus ENUM(...)
- Indexes

Application
- idApplication INT
- FirstName VARCHAR(30)
- MiddleNames VARCHAR(50)
- LastName VARCHAR(30)
- DateOfBirth DATETIME
- DateOfApplication DATE
- DateOfRejection DATE
- RejectionReason VARCHAR(100)
- MaritalStatus ENUM(...)
- StreetAddress VARCHAR(100)
- Suburb VARCHAR(45)
- Postcode VARCHAR(15)
- State VARCHAR(45)
- Country VARCHAR(45)
- idOriginalApplication INT
- Indexes

Relationships:
- Located In (Event — Venue)
- With Event Details (OrganisesEvent — Event)
- Has Recording (Event — EventRecording)
- Organised By (OrganisesEvent — Member)
- Is In Membership (Member — IsMemberOf)
- Primary Reference
- Secondary Reference
- Has Phone Number (PhoneNumbers — Member)
- Fellowship Category (IsMemberOf — MembershipCategory)
- Was Accepted With (Member — Application)
- Has Refrences (Application — ReferredBy)
- Has Original Application (Application)