C:\Users\jianyuan\AppData\Local\Microsoft\Windows\INetCache\Content.Word\relation schema.pngI add new attribute reserved\_count in relation Reservation to create my database based on my schema.(shown above)

I create each Table for each relationship in the picture and set primary key and foreign key.

Then I build several triggers to make my database to be automatic. For example, before inserting column into Table reservation, the system will check the available court. if there is available time slot, it will automatically change the booking status to 'accepted'. If not available, may because the date is far away from n - penalty points, it will automatically change the booking status to 'unavailable'.

Also every time update the status, the corresponding Table court schedule will delete or insert. And the trigger can list all reservations for a particular date (parameter), make a reservation for a member on a particular date and time (parameters), and confirm and cancel a reservation (with appropriate parameters).