

**Comp 3330 – Database Management Systems 1**

**Project - Part B**

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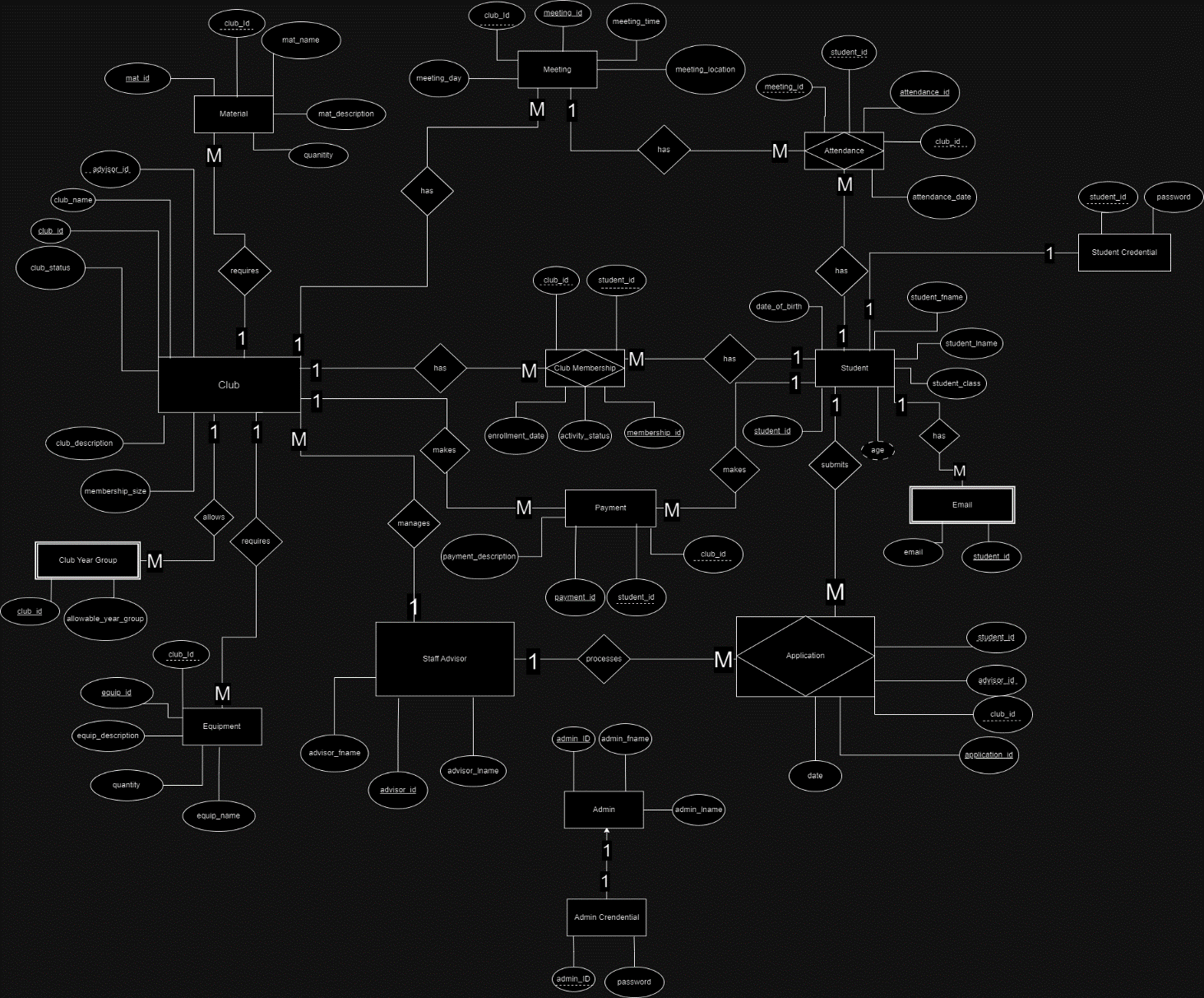
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# **Design Updates**

* Added two new entities to the ERD, which corresponds to the two new tables that were added to the database
* The name of the two entities added were **studentcredential** and **admincredential**
* Changes were made to the data type of the application status attribute in the application entity, from a var char to an enumeration containing the values **pending**; **rejected** and **accepted.**
* Changes were made to the datatype of the club attribute of the club entity from a var char to an enumeration containing the set of values; **active** and **inactive.**



# **Queries Used**

All queries are location in file location Assignment/server/handlerClass.php.

1.Query: SELECT \* FROM student\_credential WHERE student\_id = student\_id AND password = password'

Purpose: This is used to verify student login credentials.

2,Query: SELECT student\_id,student\_fname, student\_lname FROM student where student\_id = studentID;

Purpose: Retrieves data of logged in user to store in session storage.

3.Query: SELECT \* FROM admin\_credential WHERE admin\_id = adminId AND password = password;

Purpose: This is used to verify admin login credentials.

4.Query: SELECT admin\_id,admin\_fname, admin\_lname FROM admin WHERE admin\_id = adminId;

Purpose: Purpose: Retrieves data of logged in user to store in session storage.

5.Query: SELECT COUNT(club\_id) FROM club;

Purpose: Gets number of clubs stored in the system.

6.Query: COUNT(club\_id) FROM club WHERE club\_status = 'active';

Purpose: Gets the number of clubs with an active club status.

7.Query: SELECT COUNT(application\_id) FROM application WHERE student\_id = studentId;

Purpose: Gets the total number of applications belonging to a specific student.

8.Query: SELECT COUNT(application\_id) FROM application WHERE application\_status = 'pending' AND student\_id = studentId;

Purpose: Gets the total number of pending applications belonging to a specific student.

9.Query: SELECT \* FROM club;

Purpose: Returns all the information stored about every club except for their meeting information.

10.Query: SELECT club\_id, club\_name, club\_description FROM club;

Purpose: Returns the club identification number, club name and club description of every club in the system.

11.Query: SELECT club.club\_id, club\_name, club\_description FROM club,club\_membership WHERE club\_membership.student\_id = studentId AND club\_membership.club\_id = club.club\_id;

Purpose: Returns the number of clubs a specific student has registered for.

12.Query: SELECT COUNT(application\_id) FROM application WHERE student\_id = student AND application\_status = 'accepted';

Purpose: Returns the total number of accepted applications related to a particular student.

13.Query: SELECT COUNT(application\_id) FROM application WHERE student\_id = studentId AND application\_status = 'rejected';

Purpose: Returns the total number of rejected applications related to a particular student.

14.Query: SELECT advisor\_id FROM club WHERE club\_id = clubId;

Purpose: Returns the advisor identification number for the advisor in charge of a specific club.

15.Query: INSERT INTO application ( advisor\_id, club\_id, student\_id, application\_status, date) VALUES(adminID,clubId,studentID,'pending',date);

Purpose: Creates an application record.

16.Query: SELECT application.application\_id, club.club\_name, application.date ,application.application\_status FROM application, club WHERE application.student\_id = studentId AND application.club\_id = club.club\_id;

Purpose: Returns application and club information about all applications belonging to a specific student.

17.Query:SELECT student.student\_fname,student\_lname, club.club\_id, club.club\_name, application.application\_id, application.date, application.application\_status FROM application, student,club WHERE (application.student\_id = student.student\_id and application.club\_id = club.club\_id);

Purpose: Returns the student and club information pertaining to a specific record.

18. Query: SELECT COUNT(application\_id) FROM application WHERE application\_status = 'rejected';

Purpose: Returns the total number of rejected applications in the system.

19. Query: SELECT COUNT(application\_id) FROM application WHERE application\_status = 'accepted';

Purpose: Returns the total number of accepted applications in the system.

20.Query: SELECT COUNT(application\_id) FROM application WHERE application\_status = 'pending'

Purpose: Returns the total number of pending applications in the system.

21. Query: UPDATE application SET application\_status = 'rejected' WHERE application\_id = applicationId;

Purpose: Modify the application status of a particular application to rejected.

22.Query: UPDATE application SET application\_status = 'accepted' WHERE application\_id = applicationId;

Purpose: Modify the application status of a particular application to accepted.

23. Query: SELECT \* FROM staff\_advisor WHERE advisor\_id = advisor\_id;

Purpose: Returns all information about a particular advisor based in their identification number.

24.Query: SELECT COUNT(club\_id) FROM club WHERE advisor\_id = advisor\_id;

Purpose: Returns the number of clubs managed my a particular advisor.

25.Query: INSERT INTO club (club\_name, club\_description,advisor\_id,membership\_size,club\_status )VALUES (club\_name,club\_description,advisor\_id,membership\_size,'active');

Purpose: Adds a new record to the club table containing the information of the club added to the system.

26.Query: INSERT INTO meeting (club\_id,meeting\_time,meeting\_location,meeting\_day) VALUES (club\_id,meeting\_time,meeting\_location,meeting\_day);

Purpose: : Adds a new record to the meeting table containing the meeting information of the club added to the system.

26.Query: SELECT \* FROM club WHERE club\_name = club\_name;

Purpose: Returns all information about clubs matching the club name criteria.

27.Query: SELECT \* FROM club;

Purpose: Returns all information for all clubs in the system.

28.Query: SELECT \* FROM club WHERE club\_id = club\_id AND club\_name = club\_name;

Purpose: Returns all information about clubs that meet both the club name and club id criteria.

29.Query: SELECT \* FROM meeting WHERE club\_id = club\_id

Purpose: Returns all information about meetings held by a specific club.