ER Diagram

Group 24:

Vishal Reddy Vancha Aryan Rahul Verma Sanjay Kumar Vontela Aravind Yalla Abhishek Reddy Yaramala

Entities:

- 1. Student:
 - a. student_id (primary key)
 - b. cgpa
 - c. courses
 - d. email
 - e. first_nm
 - f. last_nm
 - g. password

2. Course:

- a. course_id (primary key)
- b. syllabus
- c. room
- d. course_nm
- e. meeting_time
- f. Instructor_id (foreign key)
- g. objectives

3. Program:

- a. program_id (primary key)
- b. program_nm
- c. objectives

4. Exam:

- a. exam_id (primary key)
- b. exam_nm
- c. date
- d. room
- e. duration
- f. questions
- g. course_id (foreign key)

- h. instructor_id (foreign key)
- 5. Exam Result:
 - a. result_id (primary key)
 - b. exam_id (foreign key)
 - c. student_id (foreign key)
 - d. score
- Assessment:
 - a. assessment_id (primary key)
 - b. assessment_nm
 - c. due_date
 - d. tasks
 - e. course_id (foreign key)
 - f. instructor_id (foreign key)
- 7. Assess Result:
 - a. result_id (primary key)
 - b. assess id (foreign key)
 - c. student_id (foreign key)
 - d. score
- 8. Instructor:
 - a. instructor_id (primary key)
 - b. courses
 - c. email
 - d. last nm
 - e. first_nm
- 9. Message
 - a. message_id (primary key)
 - b. instructor id (foreign key)
 - c. student_id (foreign key)
 - d. content
 - e. timestamp
- 10. Admin
 - a. admin_id (primary key)
 - b. email
 - c. password

Relations:

- 1. Student-Course (M:N):
 - A student can enroll in multiple courses and a course can have multiple enrolled students.
- 2. Course-Program (M:1):

Many courses belong to a program and a program can have multiple courses.

3. Course-Exam (1:M):

A course can have multiple exams but an exam belongs to only one course.

4. Exam-Exam Result (1:1):

An exam can only have one result and a result can belong to only one exam.

5. Student-Exam Result (1:M):

A student can view multiple exam results but an exam result can only belong to a student.

6. Admin-Course (M:N):

An admin may modify multiple courses and a course can be modified by multiple admins.

7. Student-Assess Result (1:M):

An assessment can only have one result and a result can belong to only one assessment.

8. Course_Assessment (1:M):

A course can have multiple assessment but an assessment belongs to only one course.

9. Assessment-Assess Result (1:1):

An assessment can only have one result and a result can belong to only one assessment.

10. Instructor-Course (M:N):

An instructor can modify multiple courses and a course can be modified by multiple instructors.

11. Instructor-Message (1:M):

An instructor can send multiple messages but a message can be sent by only one instructor.

12. Student-Message (M:N):

A student can receive multiple messages and a message can be received by multiple students.

