ATTRIBUTES AND RELATIONSHIP

- **Student Table**:
  - **Student_ID**: Primary key. Unique identifier for each student. Related to the Enrollment table's Student_ID field in a one-to-many relationship (one student can have many enrollments).
  - **First_Name**: Stores the first name of the student.
  - **Last_Name**: Stores the last name of the student.
  - **Email**: Stores the email address of the student. No direct relationship with other tables.
- **Course Table**:
  - **Course_ID**: Primary key. Unique identifier for each course. Related to the Enrollment table's Course_ID field in a one-to-many relationship (one course can have many enrollments).
  - **Course_Name**: Stores the name/title of the course.
  - **Instructor_ID**: Foreign key referencing the Instructor table's Instructor_ID field. Indicates the instructor who teaches the course. This establishes a many-to-one relationship (many courses can be taught by one instructor).
- **Assignment Table**:
  - **Assignment_ID**: Primary key. Unique identifier for each assignment. No direct relationship with other tables.
  - **Title**: Stores the title or name of the assignment.
  - **Description**: Stores a description or details about the assignment.
  - **Due_Date**: Stores the due date for the assignment. No direct relationship with other tables.
- **Instructor Table**:
  - **Instructor_ID**: Primary key. Unique identifier for each instructor. Related to the Course table's Instructor_ID field in a one-to-many relationship (one instructor can teach many courses).
  - **First_Name**: Stores the first name of the instructor.
  - **Last_Name**: Stores the last name of the instructor.
  - **Email**: Stores the email address of the instructor. No direct relationship with other tables.
- **Enrollment Table**:
  - **Enrollment_ID**: Primary key. Unique identifier for each enrollment record. No direct relationship with other tables.
  - **Student_ID**: Foreign key referencing the Student table's Student_ID field. Identifies the student enrolled in a course. This establishes a many-to-one relationship (many enrollments can belong to one student).
  - **Course_ID**: Foreign key referencing the Course table's Course_ID field. Identifies the course in which the student is enrolled. This establishes a many-to-one relationship (many enrollments can belong to one course).
  - **Enrollment_Date**: Stores the date when the student enrolled in the course. No direct relationship with other tables.

TABLE STRUCTURE

- **Student:**

```
+----------------+------+------+-----+---------+-------+
| Field          | Type | Null | Key | Default | Extra |
+----------------+------+------+-----+---------+-------+
| enrollmentid   | int  | NO   | PRI | NULL    |       |
| studentid      | int  | YES  | MUL | NULL    |       |
| courseid       | int  | YES  | MUL | NULL    |       |
| enrollmentdate | date | YES  |     | NULL    |       |
+----------------+------+------+-----+---------+-------+
```

- **Course:**

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| instructorid | int         | NO   | PRI | NULL    |       |
| firstname    | varchar(45) | YES  |     | NULL    |       |
| lastname     | varchar(45) | YES  |     | NULL    |       |
| email        | varchar(45) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```

- **Assignment:**

```
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| assignmentid   | int         | NO   | PRI | NULL    |       |
| courseid       | int         | YES  | MUL | NULL    |       |
| assignmentname | varchar(45) | YES  |     | NULL    |       |
| duedate        | date        | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
```

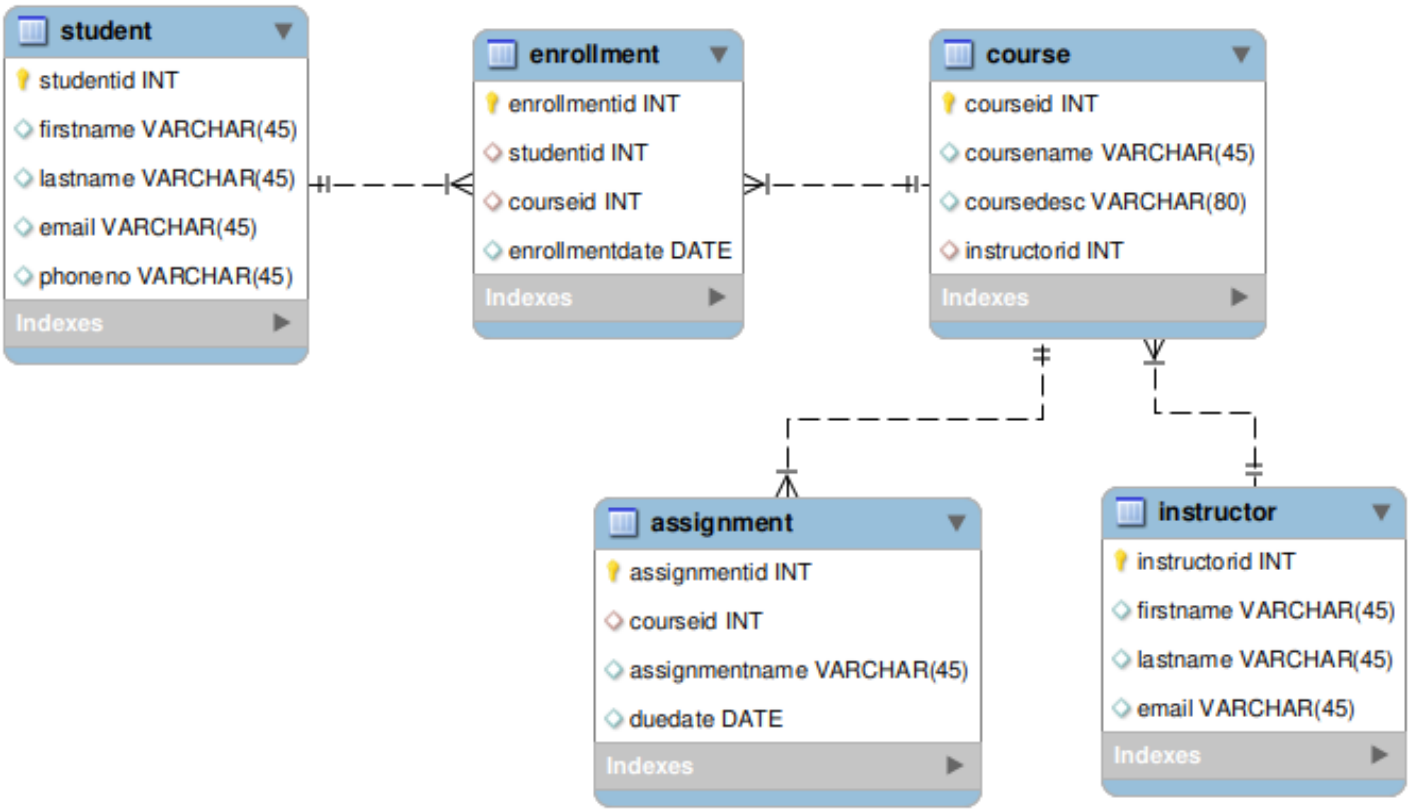
- **Instructor:**

```
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| courseid     | int         | NO   | PRI | NULL    |       |
| coursename   | varchar(45) | YES  |     | NULL    |       |
| coursedesc   | varchar(80) | YES  |     | NULL    |       |
| instructorid | int         | YES  | MUL | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
```

- **Enrollment:**

```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| studentid | int         | NO   | PRI | NULL    |       |
| firstname | varchar(45) | YES  |     | NULL    |       |
| lastname  | varchar(45) | YES  |     | NULL    |       |
| email     | varchar(45) | YES  |     | NULL    |       |
| phoneno   | varchar(45) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
```

ER DIAGRAM


student
studentid INT
firstname VARCHAR(45)
lastname VARCHAR(45)
email VARCHAR(45)
phoneno VARCHAR(45)
Indexes
enrollment
enrollmentid INT
studentid INT
courseid INT
enrollmentdate DATE
Indexes
course
courseid INT
coursename VARCHAR(45)
coursedesc VARCHAR(80)
instructorid INT
Indexes
assignment
assignmentid INT
courseid INT
assignmentname VARCHAR(45)
duedate DATE
Indexes
instructor
instructorid INT
firstname VARCHAR(45)
lastname VARCHAR(45)
email VARCHAR(45)
Indexes