**College Database Documentation**

**Overview**

This documentation provides details about the College database, which is designed to manage information about students, courses, and enrollments in a college setting. The database consists of three tables: Students, Courses, and Enrollments.

**Database Structure**

**Tables and Columns**

1. **Students Table**
   * **Description**: Stores information about students.
   * **Columns**:
     + Student ID (INT, Primary Key): A unique identifier for each student.
     + FirstName (VARCHAR(50)): The first name of the student.
     + LastName (VARCHAR(50)): The last name of the student.
     + Enrollment Date (DATE): The date the student enrolled.
     + Category (VARCHAR): Category of each student.
2. **Courses Table**
   * **Description**: Stores information about courses.
   * **Columns**:
     + Course ID (INT, Primary Key): A unique identifier for each course.
     + Course Name (VARCHAR(100)): The name of the course.
     + Course duration : duration of course.
     + Course fees (int):fees of each course.
     + Credits (INT): The number of credits the course is worth.
3. **Enrollments Table**
   * **Description**: Stores information about enrollments, linking students to courses.
   * **Columns**:
     + Enrollment ID (INT, Primary Key): A unique identifier for each enrollment.
     + Enrollment mode : mode of enrollment offline or online.
     + Student ID (INT, Foreign Key): A reference to a student's ID from the Students table.
     + Course ID (INT, Foreign Key): A reference to a course's ID from the Courses table.
     + Enrollment Date (DATE): The date of enrollment in the course.

**Relationships**

* **Students** to **Enrollments**: One-to-Many
  + One student can have multiple enrollments.
  + Student ID in Enrollments references Student ID in Students.
* **Courses** to **Enrollments**: One-to-Many
  + One course can have multiple enrollments.
  + Course ID in Enrollments references Course ID in Courses.

**Sample Data**

**Students Table**

| **Student ID** | **FirstName** | **LastName** | **Enrollment Date** |
| --- | --- | --- | --- |
| 1 | Simran | Chandra | 2022-09-01 |
| 2 | Rohit | Choudhary | 2023-01-15 |
| 3 | Pralay | yesankar | 2021-08-23 |

**Courses Table**

| **Course ID** | **Course Name** | **Course duration fees Credits** |
| --- | --- | --- |
| 101 | Mathematics | 2 50000 40 |
| 102 | Biology | 3 6000 60 |
|  |  |  |

**Enrollments Table**

| **Enrollment ID** | **Student ID** | **Course ID** | **Enrollment Date** |
| --- | --- | --- | --- |
| 1 | 1 | 101 | 2022-09-02 |
| 2 | 1 | 103 | 2022-09-02 |
| 3 | 2 | 102 | 2023-01-16 |
| 4 | 3 | 101 |  |