Main Project

Table Design

**Exam\_table**

**Primary Key : id**

**Foreign Key : teacher\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Course ID |
| course\_name | String |  | Name of the course |
| total\_questions | int(20) |  | Total number of questions in the course |
| total\_marks | int(20) |  | Total marks for the course |
| teacher\_id | int(20) | Foreign Key | ID of the teacher who manages the course |

**QuestionSet\_table**

**Primary Key : id**

**Foreign Key : course\_id**

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| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Question Set ID |
| question | text |  | Question text |
| options | text |  | Options for the multiple-choice question |
| marks | int(20) |  | Marks assigned to the question |
| correct\_answer | String |  | Correct answer for the question |
| course\_id | int(20) | Foreign Key | ID of the course to which the question belongs |

**ExamAttempt\_table**

**Primary Key : id**

**Foreign Key : student\_id**

**Foreign Key : exam\_id**

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| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Exam Attempt ID |
| student\_id | int(20) | Foreign Key | ID of the student attempting the exam |
| exam\_id | int(20) | Foreign Key | ID of the exam/course being attempted |
| marks | int(20) |  | Marks obtained in the exam |
| attempt\_date | int(20) |  | Date of the exam attempt |
| no\_of \_attempt | int(20) |  | No of exam attempt |

**Book\_table**

**Primary Key : id**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Book ID |
| title | string |  | Title of the book |
| author | string |  | Author of the book |
| price | decimal |  | Price of the book |
| availability | Enum |  | Availability status (In Stock/Out of Stock) |

**Order\_table**

**Primary Key : id**

**Foreign Key : student\_id**

**Foreign Key : book\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Order ID |
| student\_id | int(20) | Foreign Key | ID of the student placing the order |
| book\_id | int(20) | Foreign Key | ID of the book being ordered |
| quantity | int(20) |  | Quantity of books in the order |
| total\_price | Decimal |  | Total price of the order |
| order\_date | Date |  | Date of the order |

**Certificate\_table**

**Primary Key : id**

**Foreign Key : student\_id**

**Foreign Key : course\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Certificate ID |
| student\_id | int(20) | Foreign Key | ID of the student receiving the certificate |
| course\_id | int(20) | Foreign Key | ID of the course for which the certificate is issued |
| issue\_date | date |  | Date when the certificate is issued |

**Ranking\_table**

**Primary Key : id**

**Foreign Key : student\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type with size** | **Key Constraints** | **Description of the Field** |
| id | int(20) | Primary Key, Auto-increment | Ranking ID |
| student\_id | int(20) | Foreign Key | ID of the student in the ranking |
| total\_marks | int(20) |  | Total marks of the student |
| rank | int(20) |  | Rank achieved by the student |