**Database Dictionary**

1. Instructors

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| inst\_id | varchar(10) | Instructor ID (primary key) | I1 |
| inst\_name | nvarchar(50) | Instructor name | Fatema tolba |

1. Courses

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| crs\_id | varchar(10) | Course ID (primary key) | C1 |
| crs\_name | varchar(50) | Course name(unique) | DotNet |
| Inst\_id | varchar(10) | Instructor ID (foreign key references Instructors) | I1 |

1. Departments

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Dept\_no | varchar(10) | Department number (primary key) | D1 |
| Dept\_name | varchar(50) | Department name (unique) | Artificial Intelligence |

1. Students

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| St\_id | int | Student ID (primary key, identity) | 1 |
| st\_Fname | varchar(50) | Student first name | Mohamed |
| St\_Lname | varchar(50) | Student last name | Salama |
| Dept\_no | varchar(50) | Department number (foreign key references Departments) | D1 |

1. Student\_courses

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| crs\_id | varchar(10) | Course ID (foreign key references Courses) | C1 |
| st\_id | int | Student ID (foreign key references Students) | 1 |
| PRIMARY KEY | (crs\_id, st\_id) | Composite primary key | (C1 , 1) |

1. Topics

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Topic\_id | varchar(10) | Topic ID (primary key) | T1 |
| Topic\_name | Varchar(50) | Topic name (unique) | SQL |
| Crs\_id | Varchar(10) | Course ID (foreign key references Courses) | C1 |

1. Questions

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Q\_no | int | Question number (primary key) | 1 |
| question | Varchar(255) | Question text (unique) | Our vicar is always …………… money for for one cause or another. |
| Topic\_id | Varchar(10) | Topic ID (foreign key references Topics) | T9 |

1. Question\_answers

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Qa\_id | Int | Question answer ID (primary key, identity) | 1 |
| Qa\_answers | Varchar(255) | Answer text | lifting |
| Qa\_letter | Varchar(1) | Answer letter | a |
| Qa\_isTrue | Bit | Is answer true (default 0) | 0 |
| Q\_no | int | Question number (foreign key references Questions) | 1 |
| PRIMARY KEY | (qa\_id, q\_no) | Composite primary key | (1,1) |

1. Exams

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Exam\_id | int | Exam ID (primary key) | 1 |
| Crs\_id | varchar(10) | Course ID (foreign key references Courses) | C1 |

1. Exam\_questions

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| Exam\_id | int | Exam ID (foreign key references Exams) | 1 |
| Q\_no | int | Question number (foreign key references Questions) | 1 |
| PRIMARY KEY | (exam\_id, q\_no) | Composite primary key |  |

1. Student\_exams

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| St\_id | int | Student ID (foreign key references Students) | 1 |
| Exam\_id | int | Exam ID (foreign key references Exams) | 1 |
| Grade | Varchar(50) | Student grade | pass |
| PRIMARY KEY | (st\_id, exam\_id) | Composite primary key |  |

1. Student\_answers

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | DataType | Description | Example |
| A\_answer | Varchar(1) | Student answer | a |
| St\_id | Int | Student ID (foreign key references Students) | 1 |
| Exam\_id | Int | Exam ID (foreign key references Exams) | 1 |
| Q\_no | Int | Question number (foreign key references Questions) | 1 |
| Correct | Int | Correct answer | 0 |
| PRIMARY KEY | (st\_id, exam\_id, q\_no) | Composite primary key |  |