**DATA INTEGRITY (CONSTRAINTS)**

**Courses Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** |
| COURSEID | INT | PRIMARY KEY |
| COURSENAME | VARCHAR(20) | UNIQUE |
| DURATION | INTEGER | - |
| FEE | INTEGER | BETWEEN 100 – 500 DOLLARS |

**Table creation:**

CREATE TABLE COURSES (

COURSEID INTEGER PRIMARY KEY,

COURSENAME VARCHAR(20) UNIQUE,

DURATION INTEGER,

FEE INTEGER(3) CHECK(FEE BETWEEN 100 AND 500)

);

**Students Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** |
| SID | INT | PRIMARY KEY |
| SNAME | VARCHAR(20) | NOT NULL |
| AGE | INT | BETWEEN 15 – 30 YRS |
| DOJ | DATETIME | DEFAULT NOW() |
| DOC (date of completion) | DATETIME | - |
| COURSEID | INT | References Courses table (Courseid column) |

**Table creation:**

CREATE TABLE STUDENTS (

SID INTEGER PRIMARY KEY,

SNAME VARCHAR(20) NOT NULL,

AGE INTEGER CHECK(AGE BETWEEN 15 AND 30),

DOJ DATETIME DEFAULT NOW(),

DOC DATETIME,

COURSEID INTEGER,

FOREIGN KEY(COURSEID) REFERENCES COURSES(COURSEID) ON DELETE CASCADE

);

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