1-STUDENT-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| StudentID | CHAR(5) | PRIMARY KEY |
| Last | VARCHAR2(15) | NOT NULL |
| First | VARCHAR2(15) | NOT NULL |
| Street | VARCHAR2(25) |  |
| City | VARCHAR2(15) |  |
| State | VARCHAR(2) | Default ‘NJ’ |
| Zip | VARCHAR(5) |  |
| StartTerm | CHAR(4) | FOREIGN KEY to Term (TermID) |
| Birthday | Date |  |
| FacultyID | NUMBER(3) | FOREIGN KEY to Faculty (FacultyID) |
| MajorID | NUMBER(3) | FOREIGN KEY to Major (MajorID) |
| Phone | CHAR(10) |  |

2-FACULTY-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| FacultyID | NUMBER(3) | PRIMARY KEY |
| Name | VARCHAR2(15) | NOT NULL |
| RoomID | NUMBER(2) | FOREIGN KEY to Location (RoomID) |
| Phone | CHAR(3) | UNIQUE |
| DeptID | NUMBER(1) | FOREIGN KEY to Department (DeptID) |

3-CRSSECTION

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| CsID | NUMBER(4) | PRIMARY KEY |
| CourseID | VARCHAR2(6) | FOREIGN KEY to Course (CourseID), NOT NULL |
| Section | CHAR(2) | NOT NULL |
| TermID | CHAR(4) | FOREIGN KEY to Term (TermID), NOT NULL |
| FacultyID | NUMBER(3) | FOREIGN KEY to Faculty (FacultyID) |
| Day | VARCHAR2(2) |  |
| StartTime | VARCHAR2(5) |  |
| EndTime | VARCHAR2(5) |  |
| RoomID | NUMBER(2) | FOREIGN KEY to Location (RoomID) |
| MaxCount | NUMBER(2) | CHECK (MaxCount>0) |

4-COURSE-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| CourseID | VARCHAR2(6) | PRIMARY KEY |
| Title | VARCHAR2(20) | UNIQUE |
| Credits | NUMBER(1) | CHECK (Credits>=0 AND Credits<=4) |
| PreReq | VARCHAR2(6) | FOREIGN KEY to Course (CourseID) |

5-REGISTRATION

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| StudentID | CHAR(5) | COMPOSIT PRIMARY KEY, FOREIGN KEY to Student (StudentID) |
| CsID | NUMBER(4) | COMPOSIT PRIMARY KEY, FOREIGN KEY to Crssection (CsID) |
| Midterm | CHAR | CHECK (MidTerm IN ('A', 'B', 'C', 'D', 'F', 'W')) |
| Final | CHAR | CHECK (final IN ('A', 'B', 'C', 'D', 'I', 'F', 'W')) |
| RegStatus | CHAR | CHECK (RegStatus in ('X', 'R', 'W')) |

6-ROOM-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| RoomType | CHAR | PRIMARY KEY |
| RoomDesc | VARCHAR2(9) |  |

7-LOCATION-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| RoomID | NUMBER(2) | PRIMARY KEY |
| Building | VARCHAR2(7) | NOT NULL |
| RoomNo | CHAR(3) | NOT NULL, UNIQUE |
| Capacity | NUMBER(2) | CHECK (Capacity>0) |
| RoomType | CHAR | FOREIGN KEY to Room (RoomType) |

8-TERM-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| TermID | CHAR(4) | PRIMARY KEY |
| TermDesc | VARCHAR2(11) |  |
| StartDate | DATE |  |
| EndDate | DATE |  |

9-DEPARTMENT-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| DeptID | NUMBER(1) | PRIMARY KEY |
| DeptName | VARCHAR2(20) |  |
| FacultyID | NUMBER(3) | FOREIGN KEY to Faculty (FacultyID) |

10-MAJOR-

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | CONSTRAINTS |
| MajorID | NUMBER(3) | PRIMARY KEY |
| MajorDesc | VARCHAR2(25) |  |