

### 1-STUDENT-

Column Name	Data Type	CONSTRAINTS
<u>StudentID</u>	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
<u>FacultyID</u>	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
<u>CsID</u>	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
<u>CourseID</u>	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
<u>StudentID</u>	CHAR(5)	COMPOSIT PRIMARY KEY, FOREIGN KEY to Student (StudentID)
<u>CsID</u>	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
<u>RoomType</u>	CHAR	PRIMARY KEY
RoomDesc	VARCHAR2(9)	

#### 7-LOCATION-

Column Name	Data Type	CONSTRAINTS
<u>RoomID</u>	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
<u>TermID</u>	CHAR(4)	PRIMARY KEY
TermDesc	VARCHAR2(11)	
StartDate	DATE	
EndDate	DATE	

## 9-DEPARTMENT-

Column Name	Data Type	CONSTRAINTS
<u>DeptID</u>	NUMBER(1)	PRIMARY KEY
DeptName	VARCHAR2(20)	
FacultyID	NUMBER(3)	FOREIGN KEY to Faculty (FacultyID)

## 10-MAJOR-

Column Name	Data Type	CONSTRAINTS
<u>MajorID</u>	NUMBER(3)	PRIMARY KEY
MajorDesc	VARCHAR2(25)	