

## Domain

## Constraints: Assignment #3

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- ① create domain major varchar(20)  
constraint major-test  
check (value in ('Computer Science', 'Biology',  
'Electronics', 'Electrical', 'Civil'));
- ② create domain dob DATE  
constraint dob-test  
check (value < CURRENT\_DATE);
- ③ create domain "level" varchar(20)  
constraint level-test  
check (value in ('Graduate', 'Undergraduate'));
- ④ create domain building varchar(50)  
constraint building-test  
check (value in ('Bayou', 'Delta', 'Rec Center',  
'Student Center'));
- ⑤ create domain position varchar(50)  
constraint position-test  
check (value in ('Professor', 'Associate Professor',  
'Lecturer', 'Assistant Professor', 'Research  
Professor'));
- ⑥ create domain class\_capacity ~~INT~~  
constraint class\_capacity-test  
check (value < 301);
- ⑦ create domain Time Domain Time  
constraint Time Domain-test  
check (value between '8:00:00' AND  
'17:00:00');



## Tables:

create table Student(

snum numeric(12,2),

sname varchar(20),

major major,

"level" level,

dob dob,

primary key (snum));

create table Faculty(

fid int,

fname varchar(50),

dept-id int,

position position,

primary key (fid));

create table Room(

number varchar(20),

building varchar(50),

class capacity class-capacity,

exam capacity int, check (exam capacity < 50),

primary key (number));

create table Class(

cname varchar(20),

meets-at TimeDomain,

number int,

fid numeric(10,2),

primary key (cname),

foreign key (fid) references faculty(fid) ON DELETE CASCADE,  
ON UPDATE CASCADE

foreign key (number) references Room(number) ON DELETE CASCADE,  
ON UPDATE CASCADE

);



create table Enrolled(  
snum int,  
cname varchar(50),  
anumber int,  
building varchar(50),  
foreign key (snum) references Student(snum) ON DELETE CASCADE  
ON UPDATE CASCADE

foreign key (cname) references Class(cname) ON DELETE CASCADE  
ON UPDATE CASCADE

foreign key (anumber) references Room(anumber) ON DELETE CASCADE  
ON UPDATE CASCADE

primary key (snum, cname);