

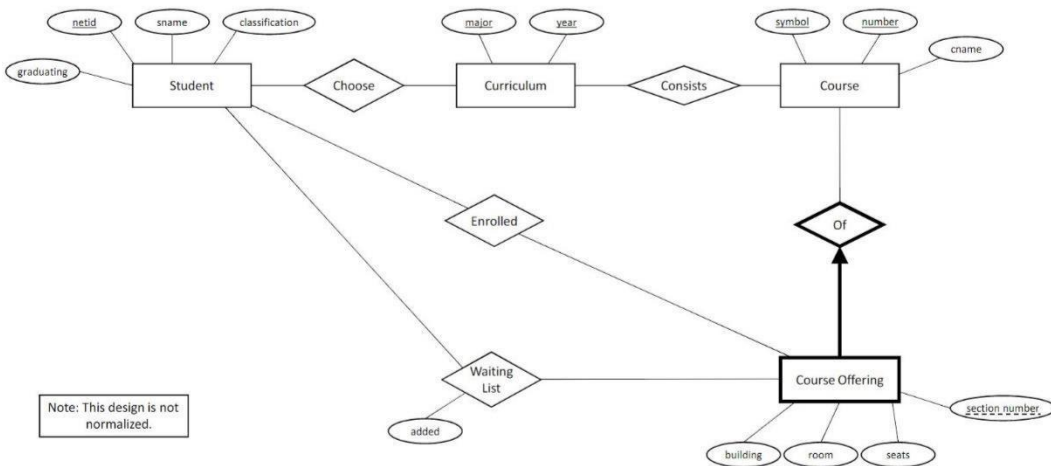
Waiting List Database Project 2

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I.ER Diagram



II. Relational Schema

student(netid: string, sname:string)

student_classification (netid: String , classification: string, graduating : Boolean)

netid: Foreign key to student

choose (netid: string, major: string , year: Date)

netid: Foreign key to student

major : Foreign key to curriculum

year: Foreign key to Curriculum

curriculum (major: string , year: Date)

consists (major: string , year: Date , symbol: string, number: integer)

major: Foreign key to curriculum

year: Foreign key to curriculum

symbol: Foreign key to course

number: Foreign key to course

course (symbol: string , number: integer, cname: string)

courseoffering_of (symbol: string , number: integer, sectionnumber: integer ,building: string)

symbol : Foreign key to course

number : Foreign key to course

courseoffered_at (building: string , room : integer, seats: integer)

enrolled (netid:string, symbol: string, number: integer, sectionnumber: Integer)

netid: Foreign key to student

symbol : Foreign key to course

number: Foreign key to course

section number: Foreign key to courseoffering_of

waitinglist (netid: string, symbol: string, number:integer, sectionnumber: integer, added: timestamp)

netid: Foreign key to student

symbol : Foreign key to course

number: Foreign key to course

sectionnumber: Foreign key to courseoffering_of

III. SQL Create Statements

Create Table student(

netid VARCHAR (10),

Sname VARCHAR (100),

Primary key (netid));

Create Table student_Classification (

classification VARCHAR (50),

netid VARCHAR (10) Not Null,

graduating Bool,

Primary key (classification),

Foreign key (netid) REFERENCES Student (netid));

Create Table choose (

netid VARCHAR (15),

major VARCHAR (30),

Year Date,

Primary Key (netid , major, year),

Foreign key (netid) REFERENCES Student (netid),

Foreign key (major) REFERENCES Curriculum (major),

Foreign key (year) REFERENCES

Curriculum (year)); CREATE TABLE curriculum (

major VARCHAR (30),

year Date,

Primary Key (major, year));

CREATE TABLE consists (

major VARCHAR (30), Year, Date

symbol VARCHAR (15), number Integer,

Primary key (major, year, symbol, number),

Foreign key (major) REFERENCES curriculum (major),

Foreign key (year) REFERENCES curriculum (year),

Foreign key (symbol) REFERENCES course (symbol),

Foreign key (number) REFERENCES Course (number));

CREATE TABLE course (

Symbol VARCHAR (15),

Number Integer

Cname VARCHAR (50));

Create Table courseoffering_of (

Symbol VARCHAR (15), number Integer,

sectionnumber Integer,

Building VARCHAR(50),

Primary Key (symbol, number, sectionnumber)

Foreign key (symbol) REFERENCES course(symbol),

Foreign key (number) REFERENCES course (number));

CREATE TABLE courseoffered_at(

building VARCHAR(50),

room Integer,

seats Integer,

Primary Key (building , room));

```
CREATE TABLE enrolled (  
    netid VARCHAR(10),  
    symbol VARCHAR(15)  
    number Integer,  
    sectionnumber Integer,  
    Primary key (netid, symbol, number, sectionnumber),  
    Foreign key (netid) REFERENCES Student (netid),  
    Foreign key (symbol) REFERENCES course (symbol),  
    Foreign key (number), REFERENCES course(number),  
    Foreign key (sectionnumber) REFERENCES courseoffering_of (sectionnumber));
```

```
CREATE TABLE waitinglist (  
    netid VARCHAR (10),  
    symbol VARCHAR(15),  
    number Integer,  
    sectionnumber Integer,  
    added timestamp  
    Primary key (netid, symbol, number, sectionnumber),  
    Foreign key (netid) REFERENCES Student (netid),  
    Foreign key (symbol) REFERENCES Course (symbol),  
    Foreign key (number) REFERENCES Course(number),  
    Foreign key (sectionnumber) REFERENCES Courseoffering_of (sectionnumber) );
```

References: No references were used.

