

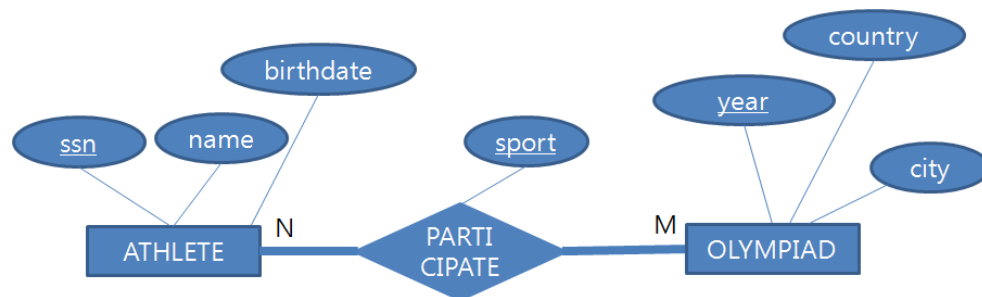
College Of Staten Island  
CS-315 Database Applications  
Spring 2023, Jun Rao  
Discussion 1 : ER  
In class – hard copy

## Solution

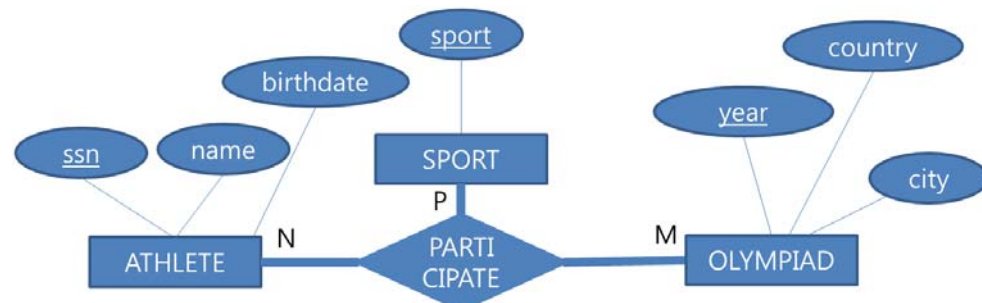
### Question 1 : Olympic Database [10 points]

Q1.1 Any of the solutions below is fine.

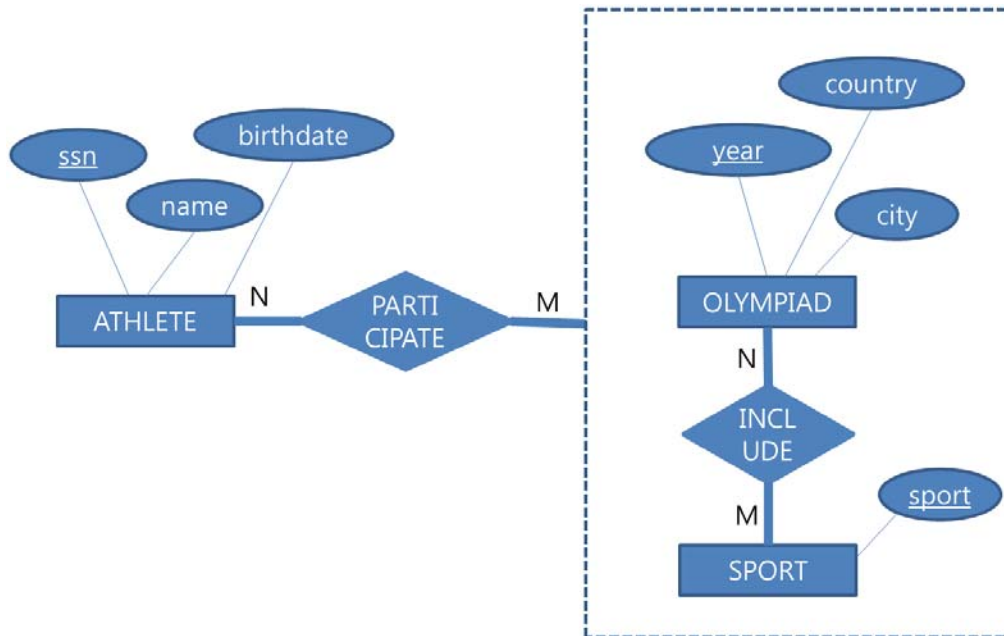
#### Solution #1



#### Solution #2



Solution #3



Q1.2

CREATE TABLE ATHLETE

(ssn CHAR(11), name CHAR(20), birthdate DATE, PRIMARY KEY (ssn) )

CREATE TABLE OLYMPIAD

(year INTEGER, country CHAR(30), city CHAR(30), PRIMARY KEY (year) )

CREATE TABLE PARTICIPATE

(ssn CHAR(11) NOT NULL, year INTEGER NOT NULL, sport CHAR(30),

PRIMARY KEY (ssn, year, sport),

FOREIGN KEY (ssn) REFERENCES ATHLETE,

FOREIGN KEY (year) REFERENCES OLYMPIAD)