Hackathon

Schema

20bcs052_Levels (level, classname)

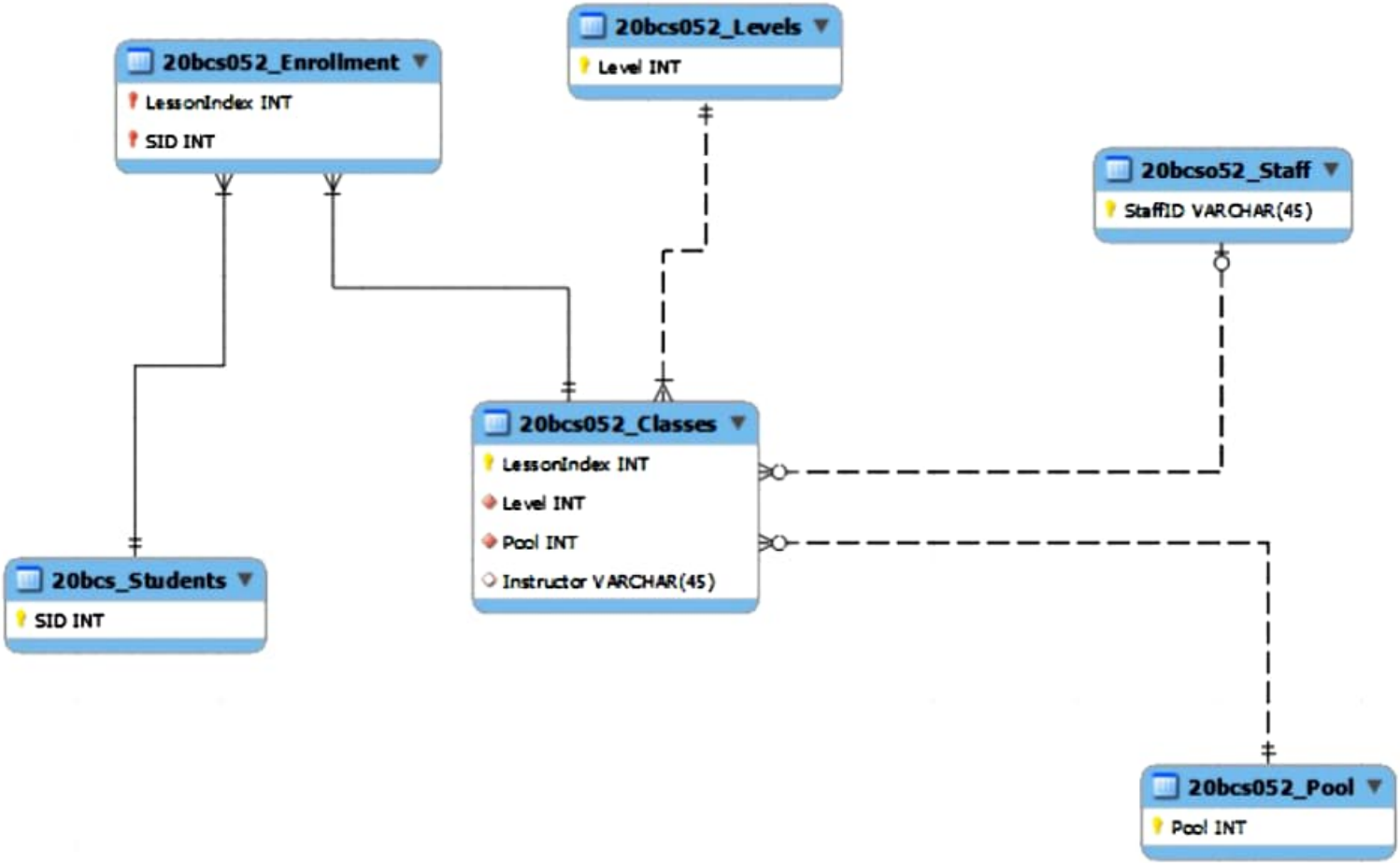
20bcs052_Pool (Pool, PoolName, Location)

20bcs052_Staff(FirstName, MiddleInitial, LastName, Suffix, Salaried, PayAmount, StaffID)

20bcs052_Classes(LessonIndex, Level, SectionID, Semester, Days, Time, Pool, Instructor, Limit, Enrolled, Price)

20bcs052_Enrollment (LessonIndex, SID, Status, Charged, AmountPaid, Date)

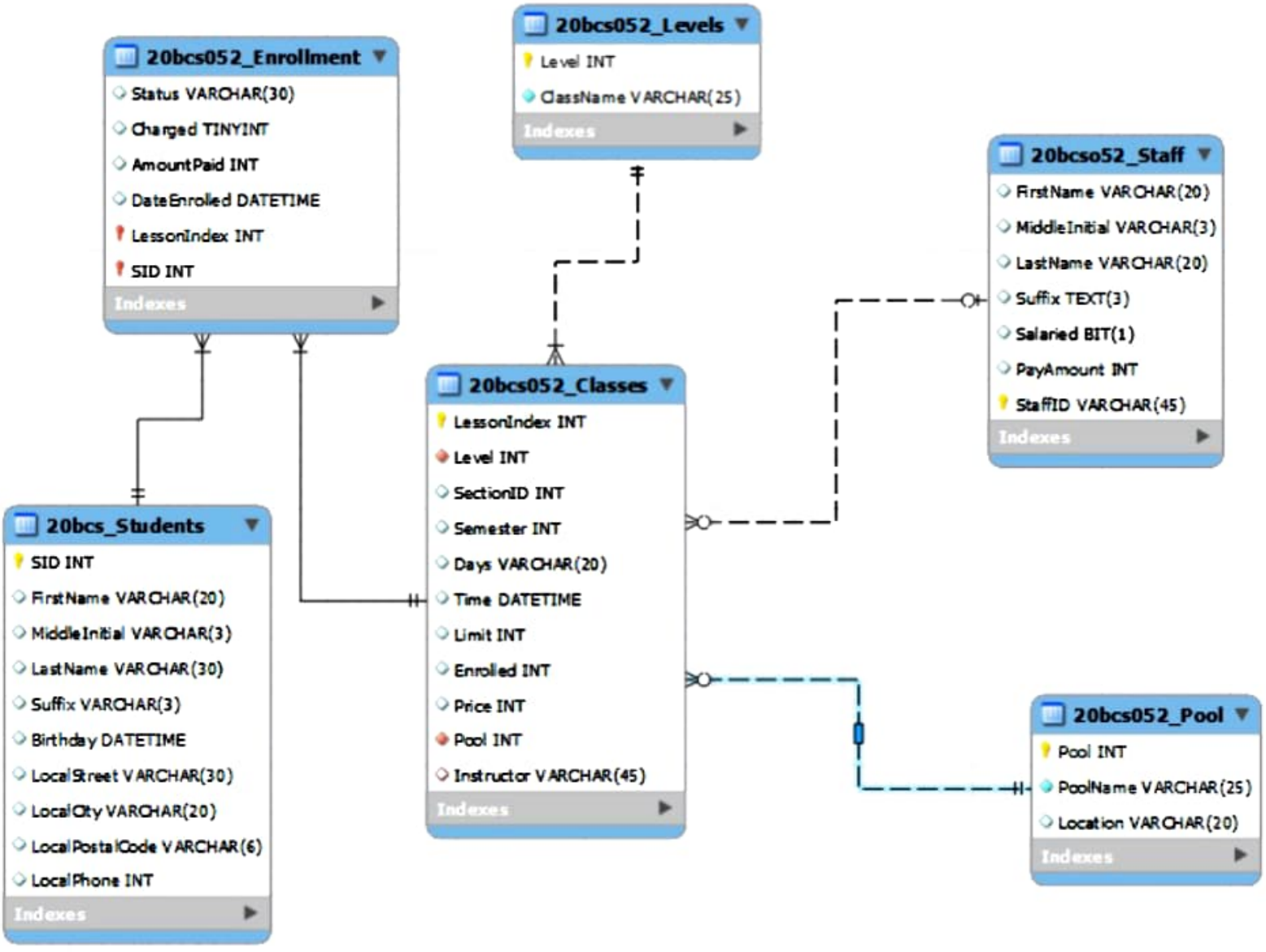
20bcs_052_Students (SID, FirstName, MiddleName, LastName, Suffix, Birthday, LocalStreet, LocalCity, LocalPhone)


20bcs052_Enrollment
LessonIndex INT
SID INT
20bcs052_Levels
Level INT
20bcso52_Staff
StaffID VARCHAR(45)
20bcs052_Classes
LessonIndex INT
Level INT
Pool INT
Instructor VARCHAR(45)
20bcs_Students
SID INT
20bcs052_Pool
Pool INT

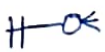
A composite primary key is created in enrollment table to convert it from weak entity to strong entity.

Pk_enrollment (SID, LessonIndex)

Relation	Degree
Levels	2
Pool	3
Staff	7
Classes	11
Enrollment	6
students	10


20bcs052_Enrollment
Status VARCHAR(30)
Charged TINYINT
AmountPaid INT
DateEnrolled DATETIME
LessonIndex INT
SID INT
Indexes
20bcs052_Levels
Level INT
ClassName VARCHAR(25)
Indexes
20bcso52_Staff
FirstName VARCHAR(20)
MiddleInitial VARCHAR(3)
LastName VARCHAR(20)
Suffix TEXT(3)
Salaried BIT(1)
PayAmount INT
StaffID VARCHAR(45)
Indexes
20bcs052_Classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days VARCHAR(20)
Time DATETIME
Limit INT
Enrolled INT
Price INT
Pool INT
Instructor VARCHAR(45)
Indexes
20bcs_Students
SID INT
FirstName VARCHAR(20)
MiddleInitial VARCHAR(3)
LastName VARCHAR(30)
Suffix VARCHAR(3)
Birthday DATETIME
LocalStreet VARCHAR(30)
LocalCity VARCHAR(20)
LocalPostalCode VARCHAR(6)
LocalPhone INT
Indexes
20bcs052_Pool
Pool INT
PoolName VARCHAR(25)
Location VARCHAR(20)
Indexes

Relations between tables

Pool — Classes → 

one to many / class not mandatory for pool

staff - classes →

one to many / both not mandatory

Level - classes → 

one to many / mandatory

Enrollment - classes → 

many to one / mandatory

Enrollment - students → 

many to one / mandatory

classes and students have enrollment as junction.