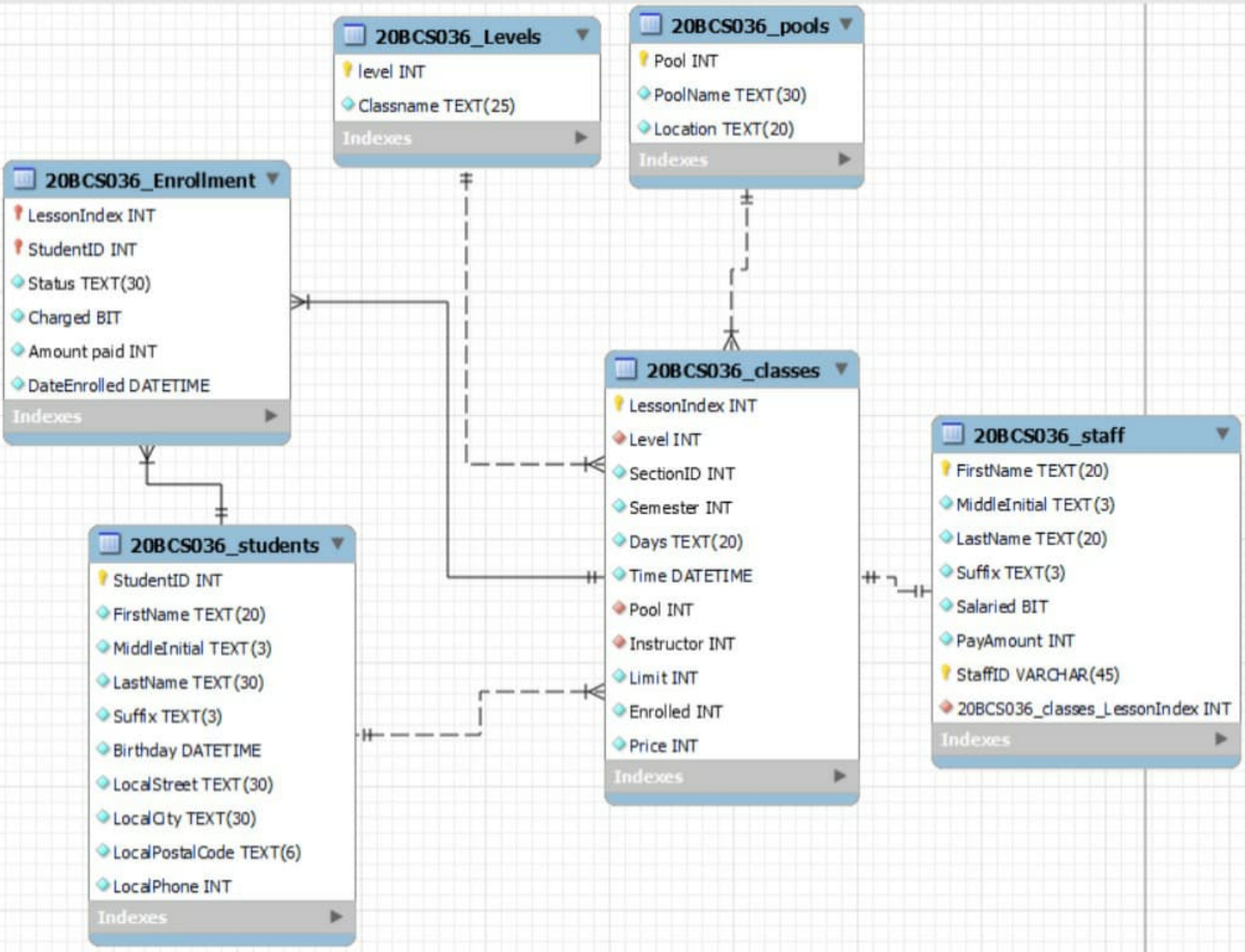
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level INT
Classname TEXT(25)
Indexes
20BCS036_pools
Pool INT
PoolName TEXT(30)
Location TEXT(20)
Indexes
20BCS036_Enrollment
LessonIndex INT
StudentID INT
Status TEXT(30)
Charged BIT
Amount paid INT
DateEnrolled DATETIME
Indexes
20BCS036_classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days TEXT(20)
Time DATETIME
Pool INT
Instructor INT
Limit INT
Enrolled INT
Price INT
Indexes
20BCS036_staff
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(20)
Suffix TEXT(3)
Salaried BIT
PayAmount INT
StaffID VARCHAR(45)
20BCS036_classes_LessonIndex INT
Indexes
20BCS036_students
StudentID INT
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(30)
Suffix TEXT(3)
Birthday DATETIME
LocalStreet TEXT(30)
LocalCity TEXT(30)
LocalPostalCode TEXT(6)
LocalPhone INT
Indexes

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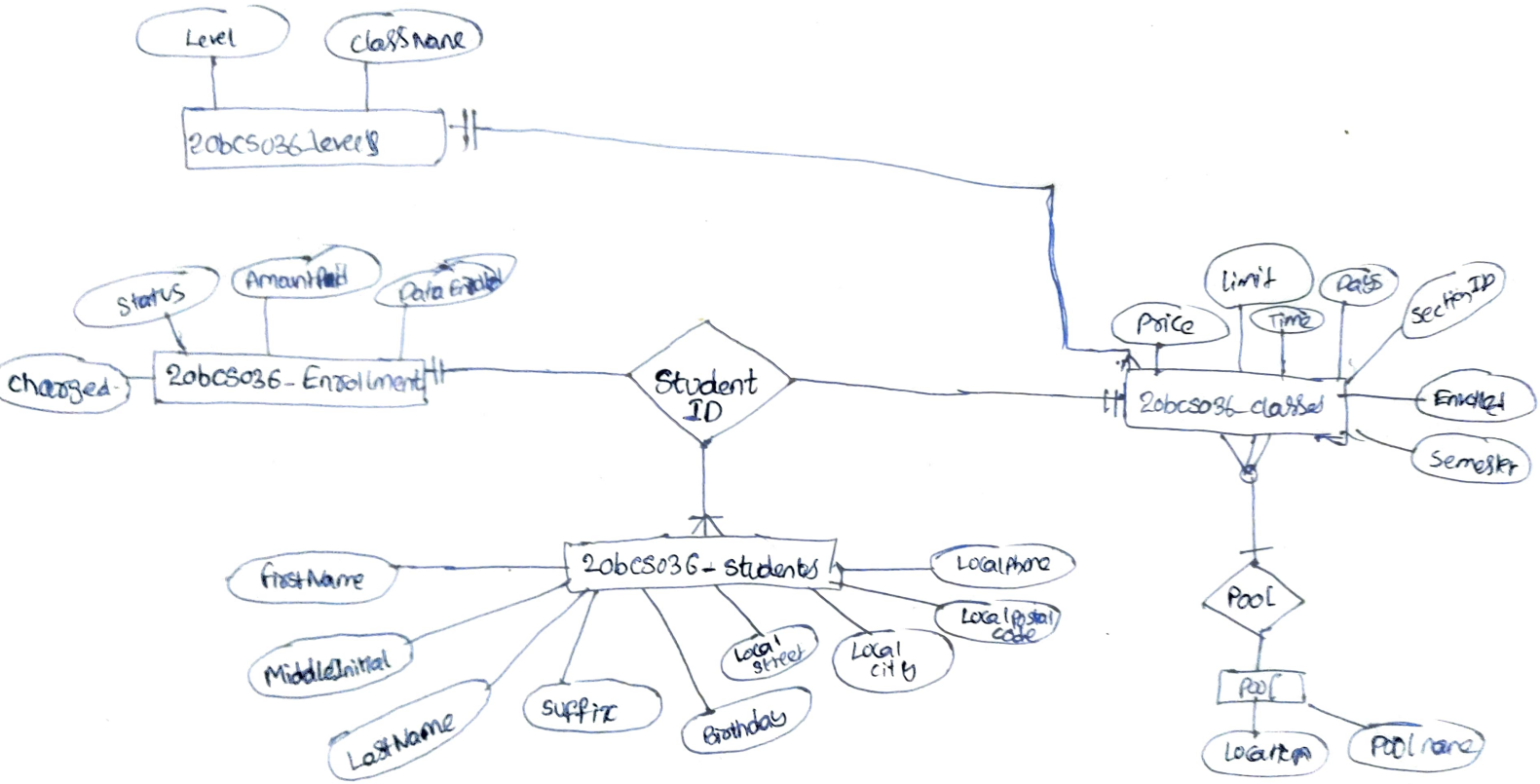

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Cardinality of these relationships

- Student - Enrollment : one to many
- Enrollment - Classes : many to one
- Classes - Staff : Many to one
- Classes - Pool : Many to one
- Classes - level : Many to one

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Degree

Pool = 3

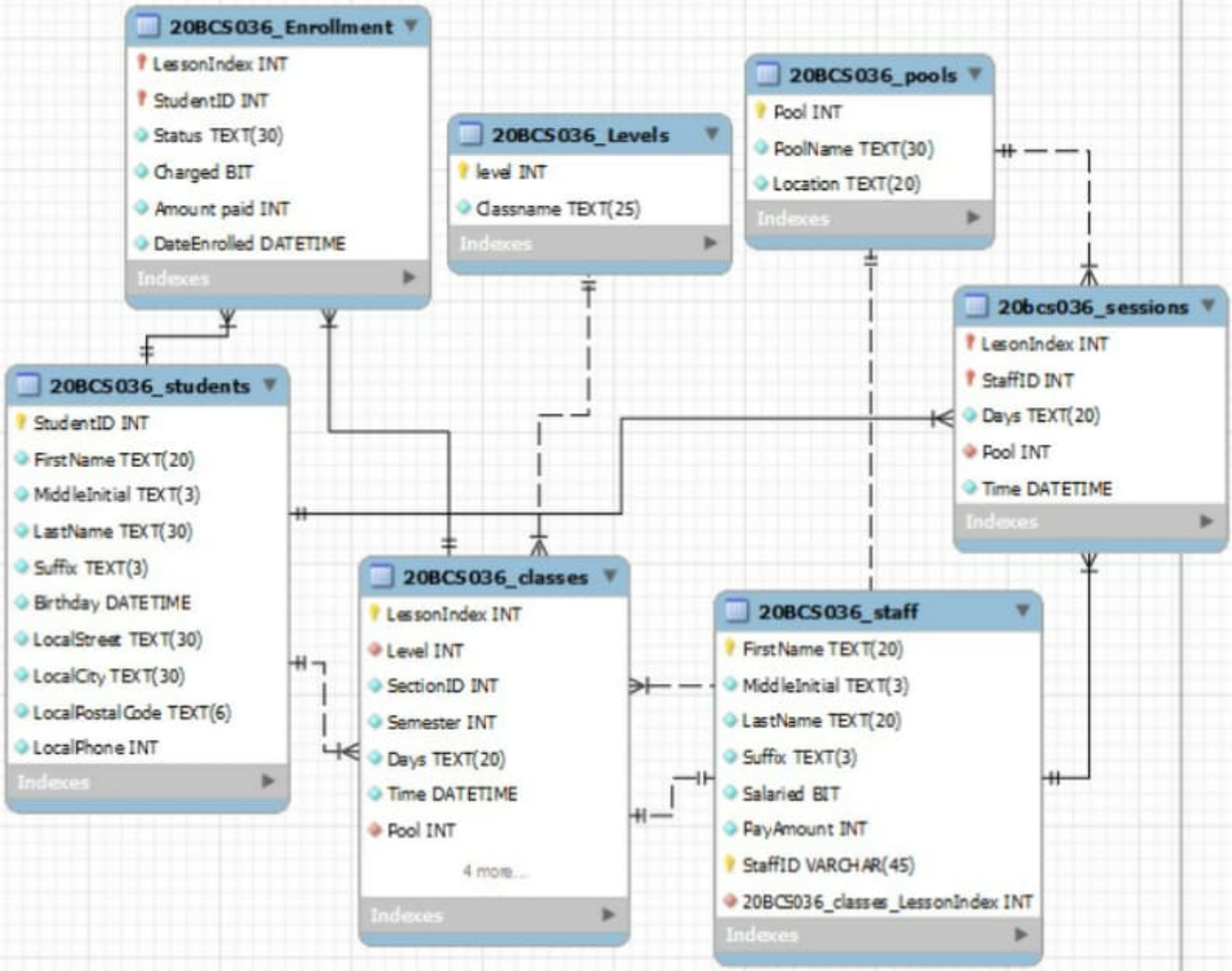
student = 10

Enrollment = 6

staff = 7

classes = 11

levels = 2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LessonIndex INT
StudentID INT
Status TEXT(30)
Charged BIT
Amount paid INT
DateEnrolled DATETIME
Indexes
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level INT
Classname TEXT(25)
Indexes
20BCS036_pools
Pool INT
PoolName TEXT(30)
Location TEXT(20)
Indexes
20bcs036_sessions
LesonIndex INT
StaffID INT
Days TEXT(20)
Pool INT
Time DATETIME
Indexes
20BCS036_students
StudentID INT
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(30)
Suffix TEXT(3)
Birthday DATETIME
LocalStreet TEXT(30)
LocalCity TEXT(30)
LocalPostalCode TEXT(6)
LocalPhone INT
Indexes
20BCS036_classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days TEXT(20)
Time DATETIME
Pool INT
4 more...
Indexes
20BCS036_staff
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(20)
Suffix TEXT(3)
Salaried BIT
PayAmount INT
StaffID VARCHAR(45)
20BCS036_classes_LessonIndex INT
Indexes

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4) Weak entity is Absent here

As each table has a primary key

So each table can be identified individually

So each table is a strong entity

5) In this ER diagram, there is no visible data redundancies as the only duplicate attributes

Best