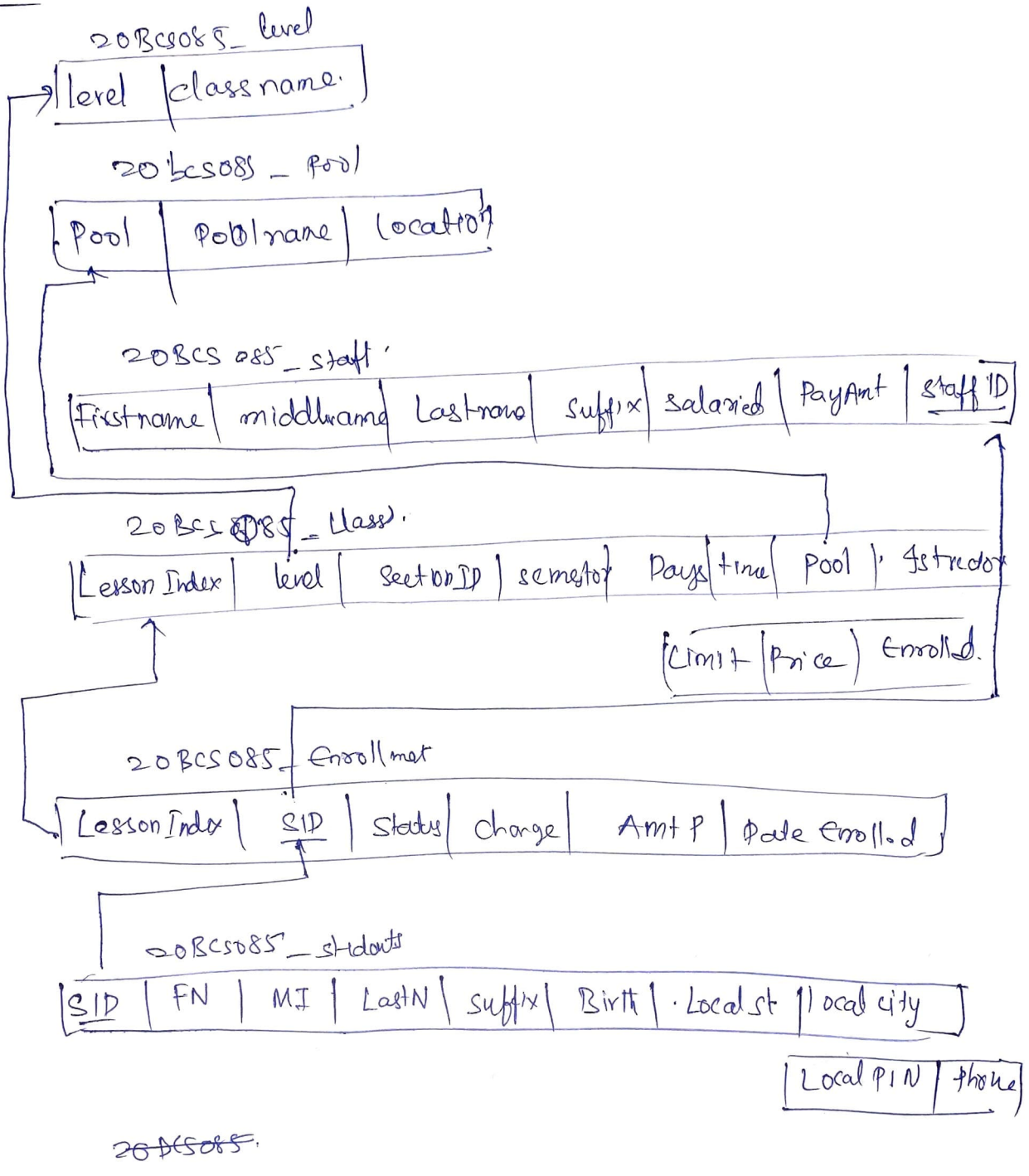
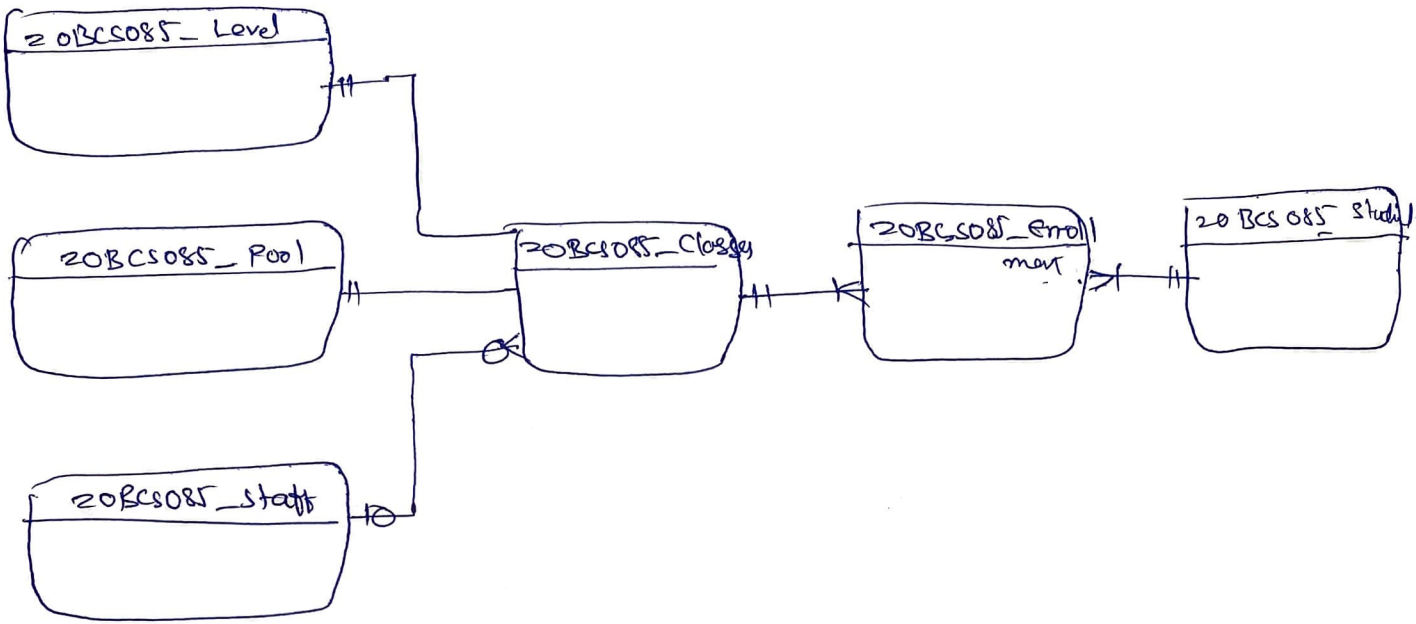
20BCS085

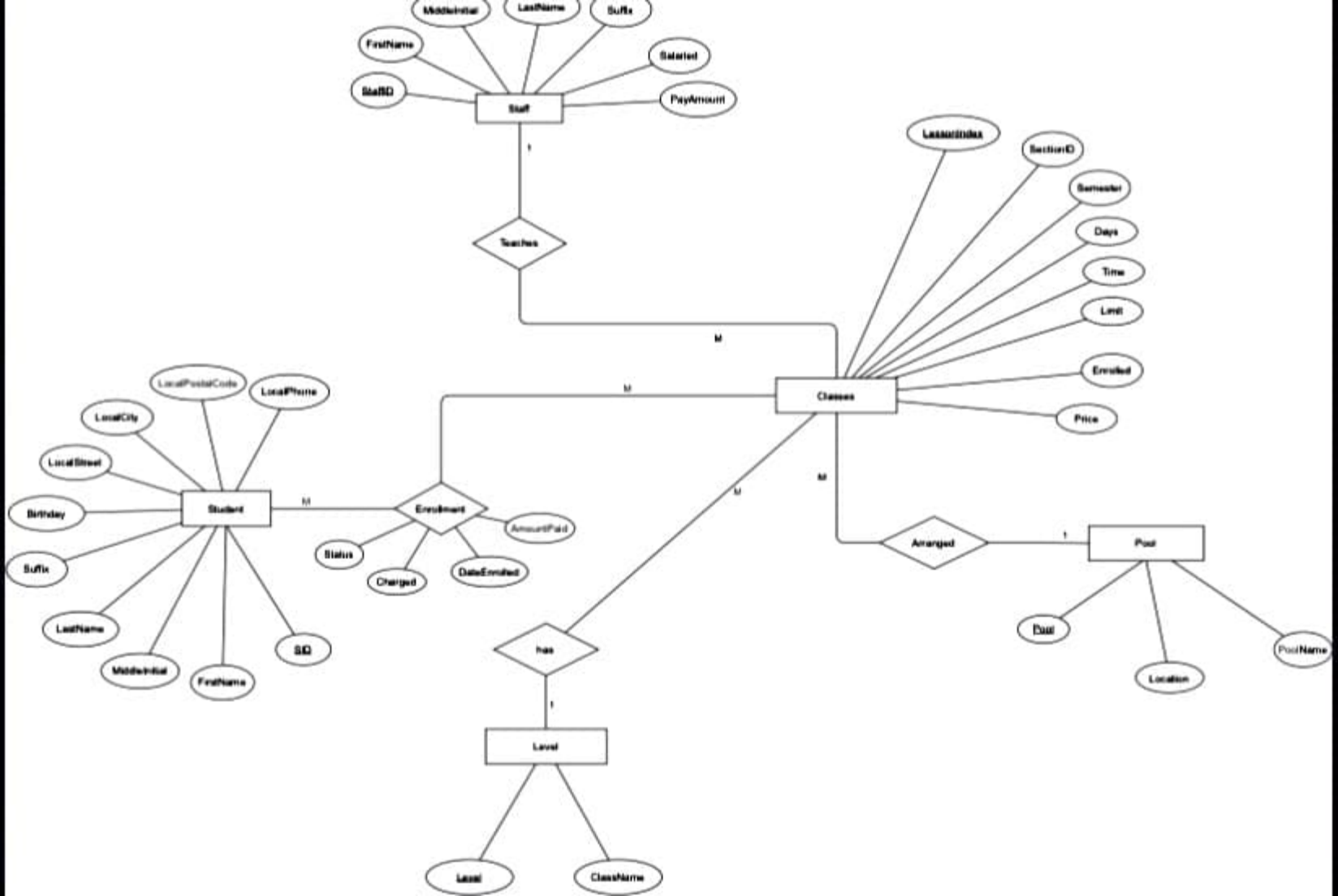
Q1)



~~20BCS085~~

Conceptual diagram.




MiddleInitial
LastName
Suffix
FirstName
Salaried
StaffID
PayAmount
Staff
1
Teaches
M
LessonIndex
SectionID
Semester
Days
Time
Limit
Enrolled
Price
Classes
M
LocalPostalCode
LocalPhone
LocalCity
LocalStreet
Birthday
Suffix
LastName
MiddleInitial
FirstName
SID
Student
M
Enrollment
AmountPaid
Status
Charged
DateEnrolled
M
M
Arranged
1
Pool
Pool
Location
PoolName
has
1
Level
Level
ClassName

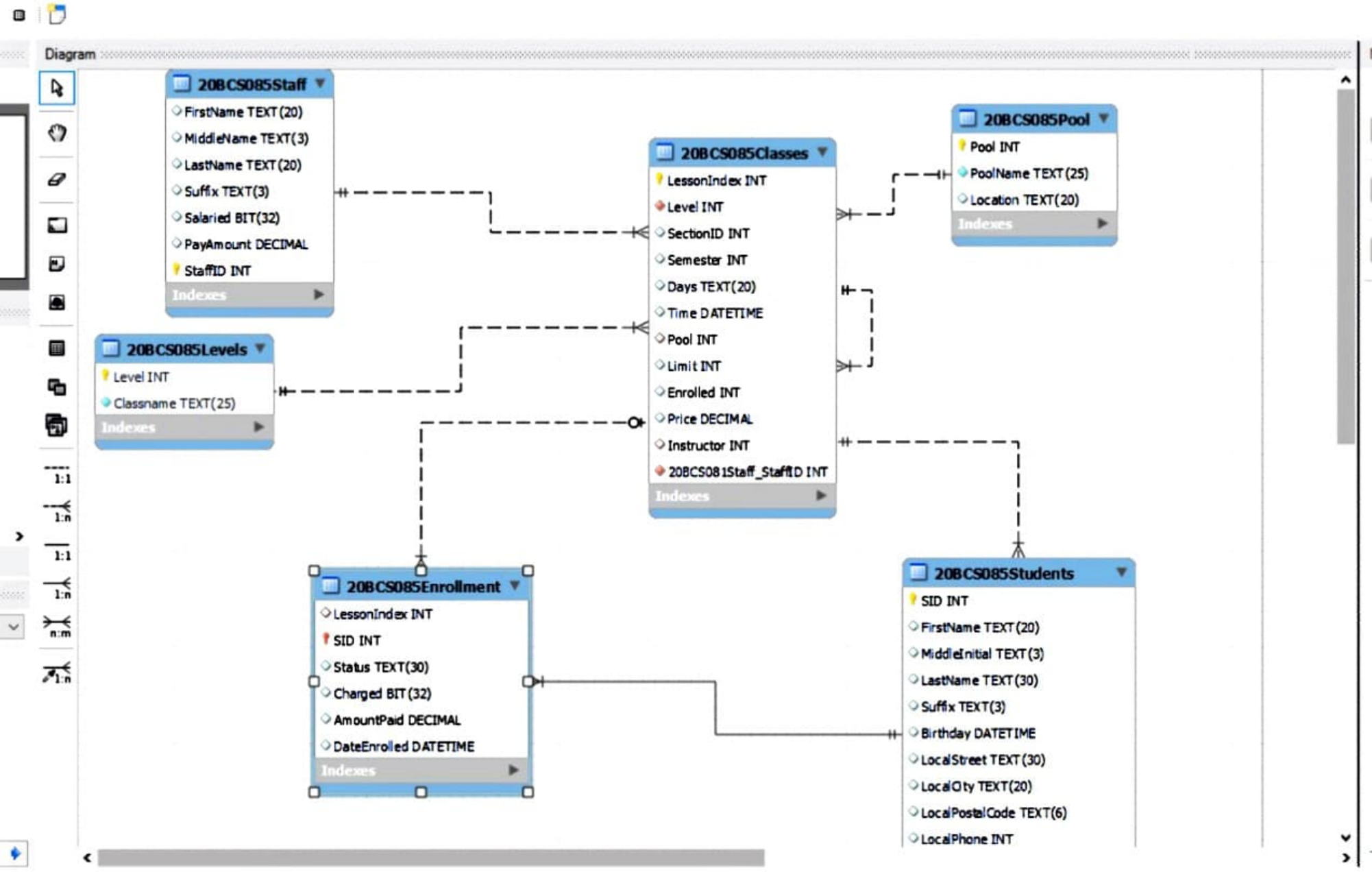


Diagram
20BCS085Staff
FirstName TEXT(20)
MiddleName TEXT(3)
LastName TEXT(20)
Suffix TEXT(3)
Salaried BIT(32)
PayAmount DECIMAL
StaffID INT
Indexes
20BCS085Classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days TEXT(20)
Time DATETIME
Pool INT
Limit INT
Enrolled INT
Price DECIMAL
Instructor INT
20BCS081Staff_StaffID INT
Indexes
20BCS085Pool
Pool INT
PoolName TEXT(25)
Location TEXT(20)
Indexes
20BCS085Levels
Level INT
Classname TEXT(25)
Indexes
20BCS085Enrollment
LessonIndex INT
SID INT
Status TEXT(30)
Charged BIT(32)
AmountPaid DECIMAL
DateEnrolled DATETIME
Indexes
20BCS085Students
SID INT
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(30)
Suffix TEXT(3)
Birthday DATETIME
LocalStreet TEXT(30)
LocalCity TEXT(20)
LocalPostalCode TEXT(6)
LocalPhone INT

Q2 Cardinality

Binary Relation is observed in ERD Program.

Degree of relation shis is - 6

Enrollment – Student :– one to many

Enrollment – classes :– one to many

classes - staff :– one to many

classes – pool :– one to many

classes – level :– one to many

Q3 Screen shot uploaded.

Q4 Here each table has a primary key. There is no weak entity because all the tables have pk, so each table can be identified individual all are strong entites.

Entity cannot be weak if it has primary key

Q5 There is no data redundacy present as no two instances of same person in two diffrent tables → same data.

In people entite including → first, middle, last

also a relation to both Instr and student

Normalization must be used to avoid these.