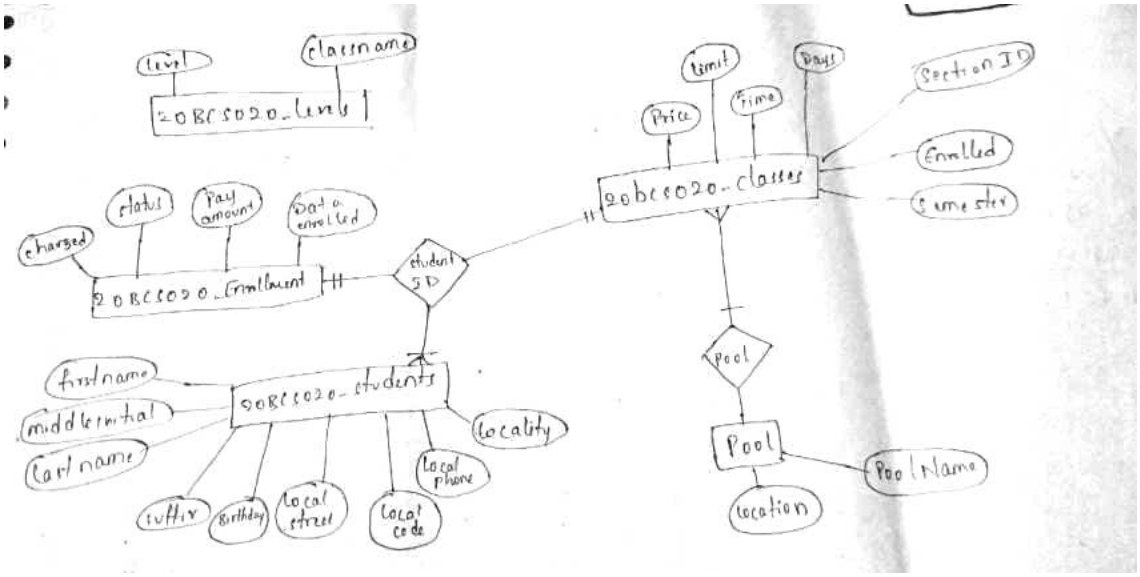
DBMS HACKATHON

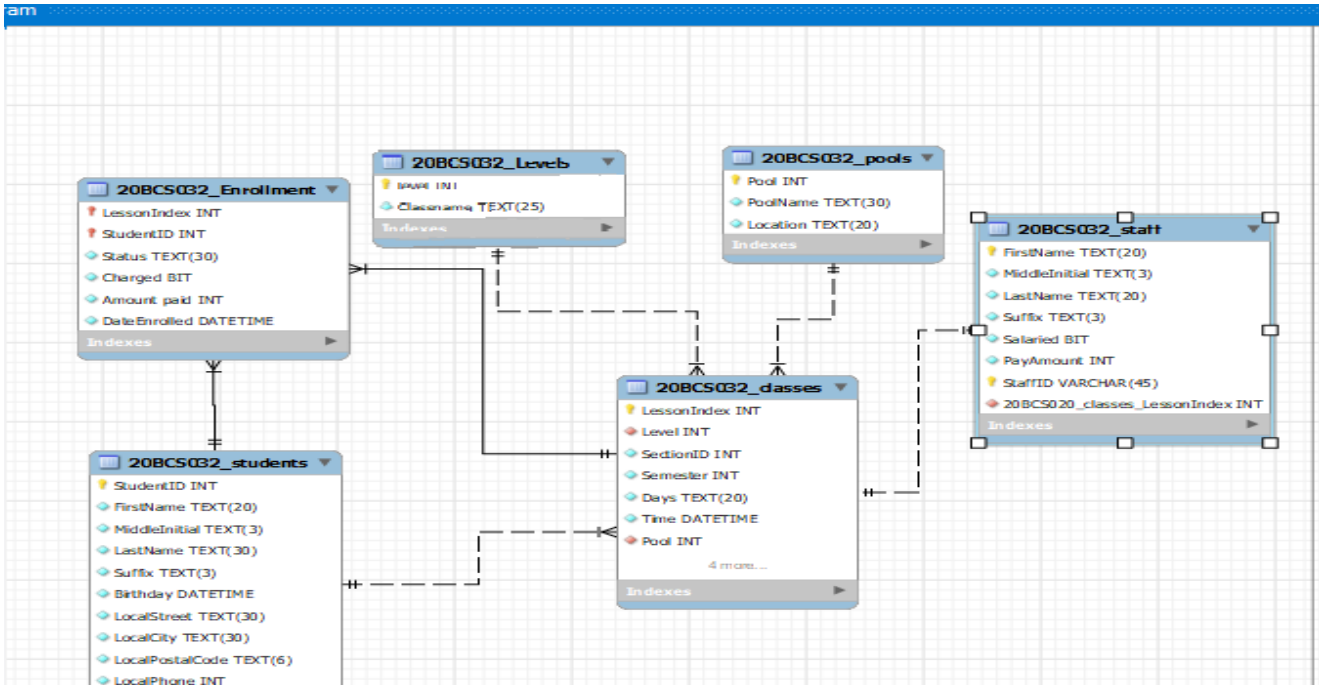
Name: BHUKYA JAGADISH

Roll no.:20BCS032

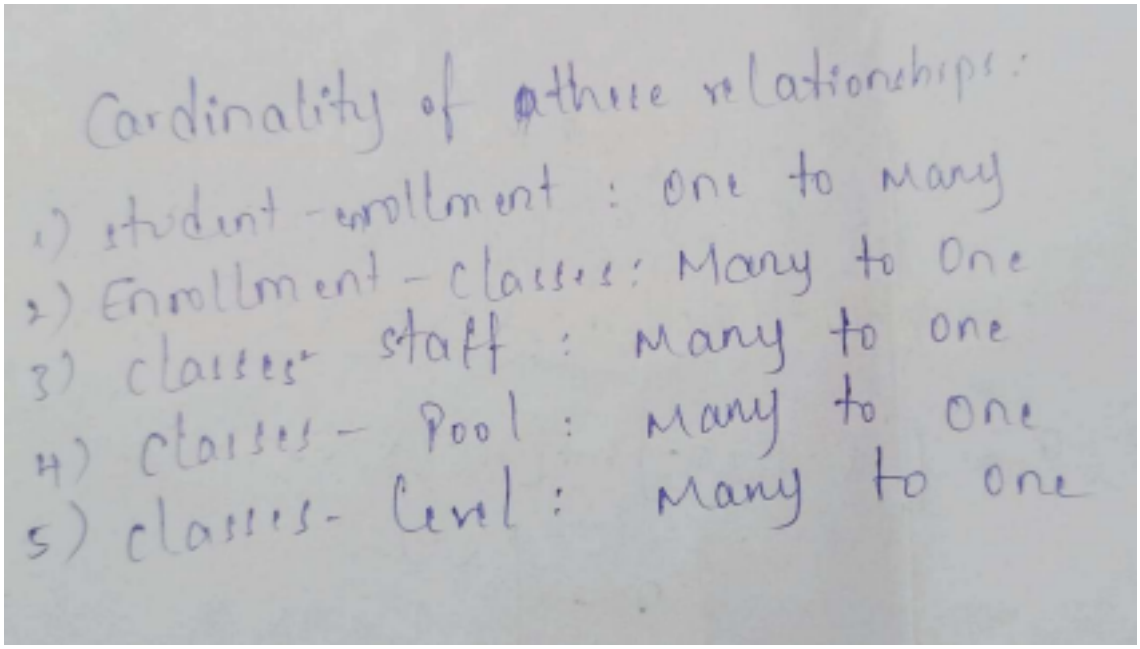
ER-Diagram:

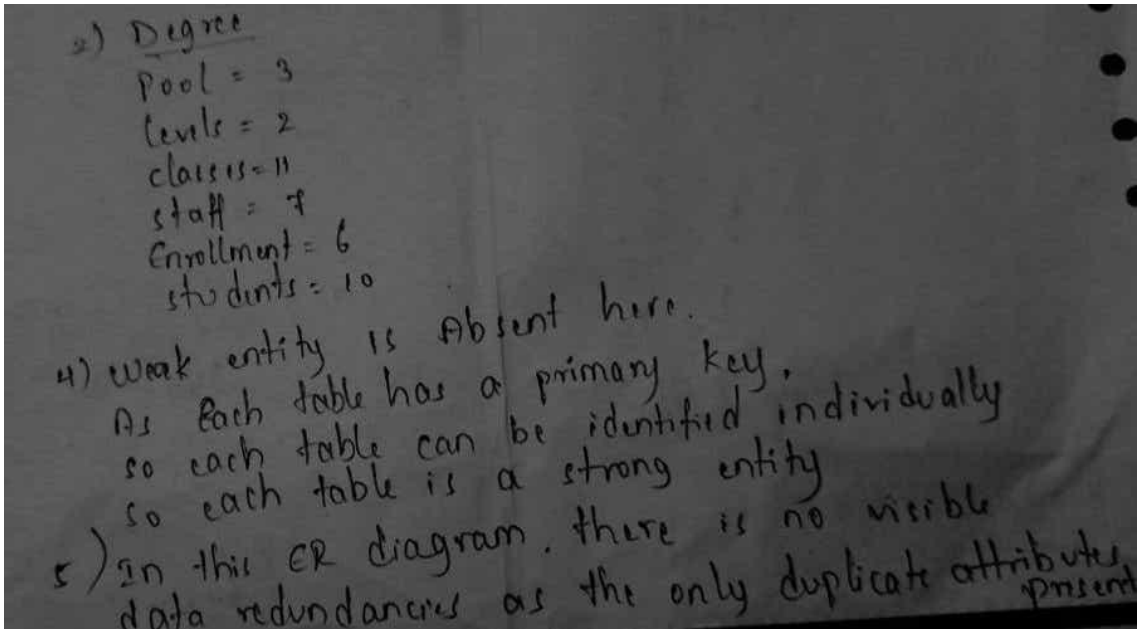
1)



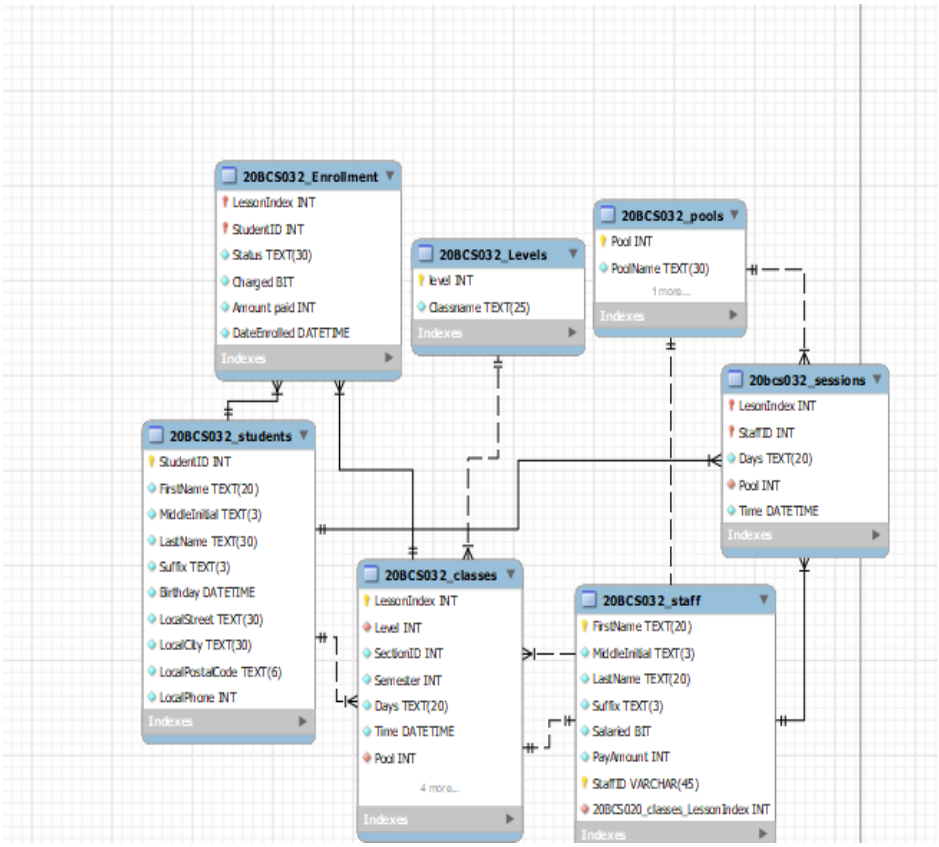

am
20BCS032_Enrollment
LessonIndex INT
StudentID INT
Status TEXT(30)
Charged BIT
Amount paid INT
DateEnrolled DATETIME
Indexes
20BCS032_Levels
Classname TEXT(25)
Indexes
20BCS032_pools
Pool INT
PoolName TEXT(30)
Location TEXT(20)
Indexes
20BCS032_staff
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(20)
Suffix TEXT(3)
Salaried BIT
PayAmount INT
StaffID VARCHAR(45)
20BCS020_classes_LessonIndex INT
Indexes
20BCS032_classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days TEXT(20)
Time DATETIME
Pool INT
4 more...
Indexes
20BCS032_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

2)


Cardinality of three relationships:
1) student - enrollment : one to many
2) Enrollment - classes: Many to One
3) classes staff : Many to one
4) classes - Pool : Many to one
5) classes - Level : Many to one


3) Degree
Pool = 3
Levels = 2
classes = 11
staff = 7
Enrollment = 6
students = 10
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
present

5)


20BCS032_Enrollment
LessonIndex INT
StudentID INT
Status TEXT(30)
Charged BIT
Amount paid INT
DateEnrolled DATETIME
Indexes
20BCS032_Levels
level INT
Classname TEXT(25)
Indexes
20BCS032_pools
Pool INT
PoolName TEXT(30)
1 more...
Indexes
20bcs032_sessions
LesonIndex INT
StaffID INT
Days TEXT(20)
Pool INT
Time DATETIME
Indexes
20BCS032_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
20BCS032_classes
LessonIndex INT
Level INT
SectionID INT
Semester INT
Days TEXT(20)
Time DATETIME
Pool INT
4 more...
Indexes
20BCS032_staff
FirstName TEXT(20)
MiddleInitial TEXT(3)
LastName TEXT(20)
Suffix TEXT(3)
Salaried BIT
PayAmount INT
StaffID VARCHAR(45)
20BCS020_classes_LessonIndex INT
Indexes