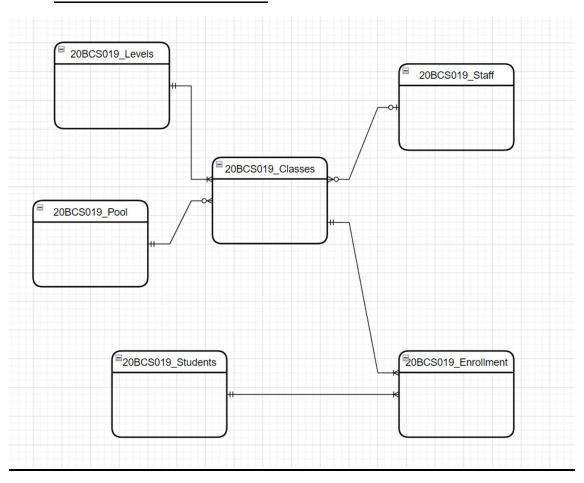
20BCS019-QUIZ-1-DBMS

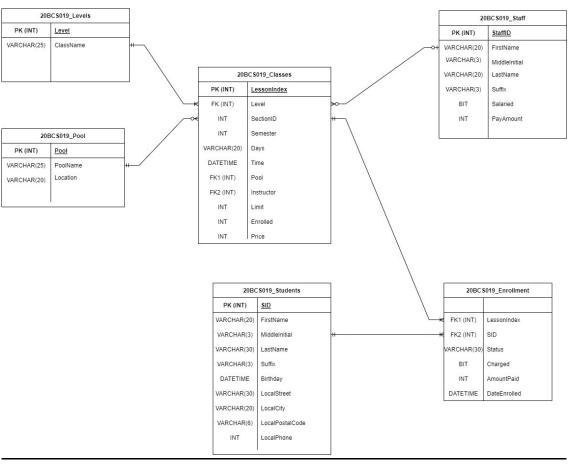
Name – Annamaneni Rohit Roll Number – 20BCS019

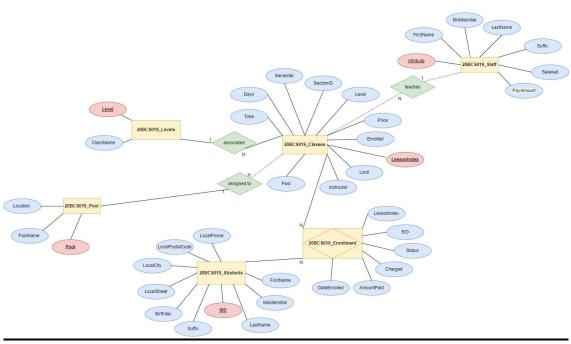
2)

CONEPTUAL DIAGRAM



PHYSICAL DIAGRAM (ERD)





Schema

20BCS019_Levels (Level, ClassName)

20BCS019_Pool (Pool, PoolName, Location)

20BCS019_Classes(<u>LessonIndex</u>, Level, SectionID, , Semester, Days, Time, Pool, Instructor, Limit, Enrolled, Price)

20BCS019_Staff(<u>StaffID</u>, FirstName, MiddleInitial, LastName, Suffix, Salaried, PayAmount)

20BCS019_Enrollment(LessonIndex, SID, Status, Charged, AmountPaid, DateEnrolled)

20BCS019_Students(SID, FirstName, MiddleInitial, LastName, Suffix, Birthday, LocalStreet, LocalCity, LocalPostalCode, LocalPhone)

Cardinality

20BCS019_Staff - 20BCS019_Classes => **optional one to optional many**20BCS019_levels - 20BCS019_Classes => **Mandatory one to mandatory many**20BCS019_classes - 20BCS019_pools => **optional many to mandatory one**20BCS019_Enrollment - 20BCS019_Students = > **mandatory many to mandatory one**

20BCS019_Enrollment – 20BCS019_Classes => mandatory one to mandatory many

4) 20BCS019_Enrollment is a weak entity because it needs the foreign keys from its parents (20BCS019_Classes, 20BCS019_Students) to identify its instances. Another primary key cannot be added to this entity to make it strong as it can have NULL foreign keys without the existence of its parent instances and can violate data integrity.

duplicate attributes	m, there is no visi		incles as the only	
auplicate attributes	present are foreig	gii keys.		