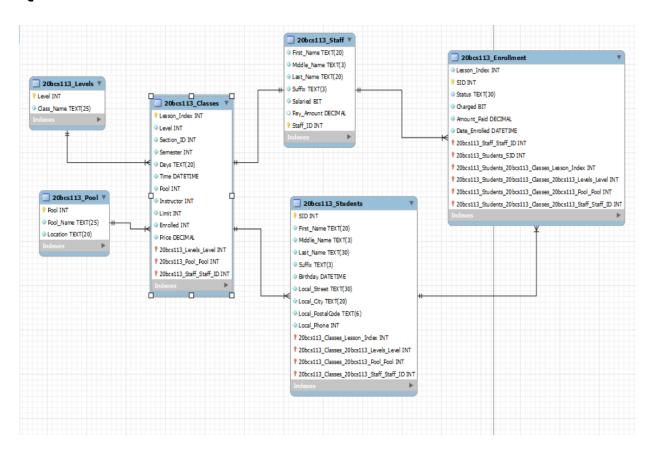
Name: Rohan Singh

Reg. No: 20bcs113

Subject: DBMS

Q1.



#### Schema:

20BCS113\_Levels (Level, Class\_Name)

20BCS113\_Pool (Pool, Pool\_Name, Location)

20BCS113\_Staff (Staff, First\_Name, Middle\_Name, Last\_Name, Suffix, Salaried, Pay\_Amount)

20BCS113\_Classes (Lesson\_Index, Level, Pool, Instructor, Section\_ID, Days, Time, Limit, Enrolled, Price)

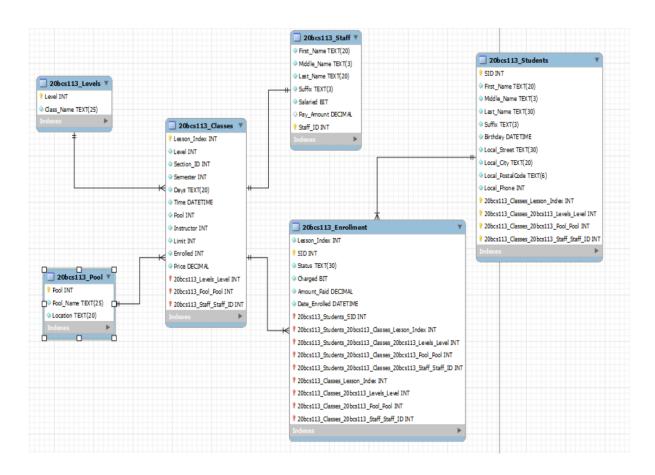
20BCS113\_Enrollment (Lesson\_Index, SID, Status, Charged, Amount\_Paid, Date\_Enrolled)

20BCS113\_Students (SID, First\_Name, Middle\_Name, Last\_Name, Suffix, Birthday, Local\_Street, Loca\_ICity, Local\_PostalCode, Loca\_IPhone)

## Q2. Degree and Cardinality

20bcs113_Levels	Mandatory 1 -	20bcs113_Classes
	Mandatory Many	
20bcs113_Pool	Mandatory 1 -	20bcs113_Classes
	Optional Many	
20bcs113_Classes	Mandatory 1 -	20bcs113_Enrollment
	Mandatory Many	
20bcs113_Enrollment	Mandatory Many -	20bcs113_Students
	Mandatory 1	
20bcs113_Enrollment	Optional Many –	20bcs113_Staffs
	Optional 1	

# Q3. Data Model



### Q4.

20bcs113\_Enrollment is a weak entity. It's an associative entity because it doesn't have a primary key, and it's actually a weak entity. We can't make it a powerful entity because you add a primary key and defeat its purpose acts as an m: n relationship (associative entity) between the class table and the student table.

### Q5.

There is no data redundancy in this scheme. We can say because there are no equal dates Attributes that exist in two separate tables.