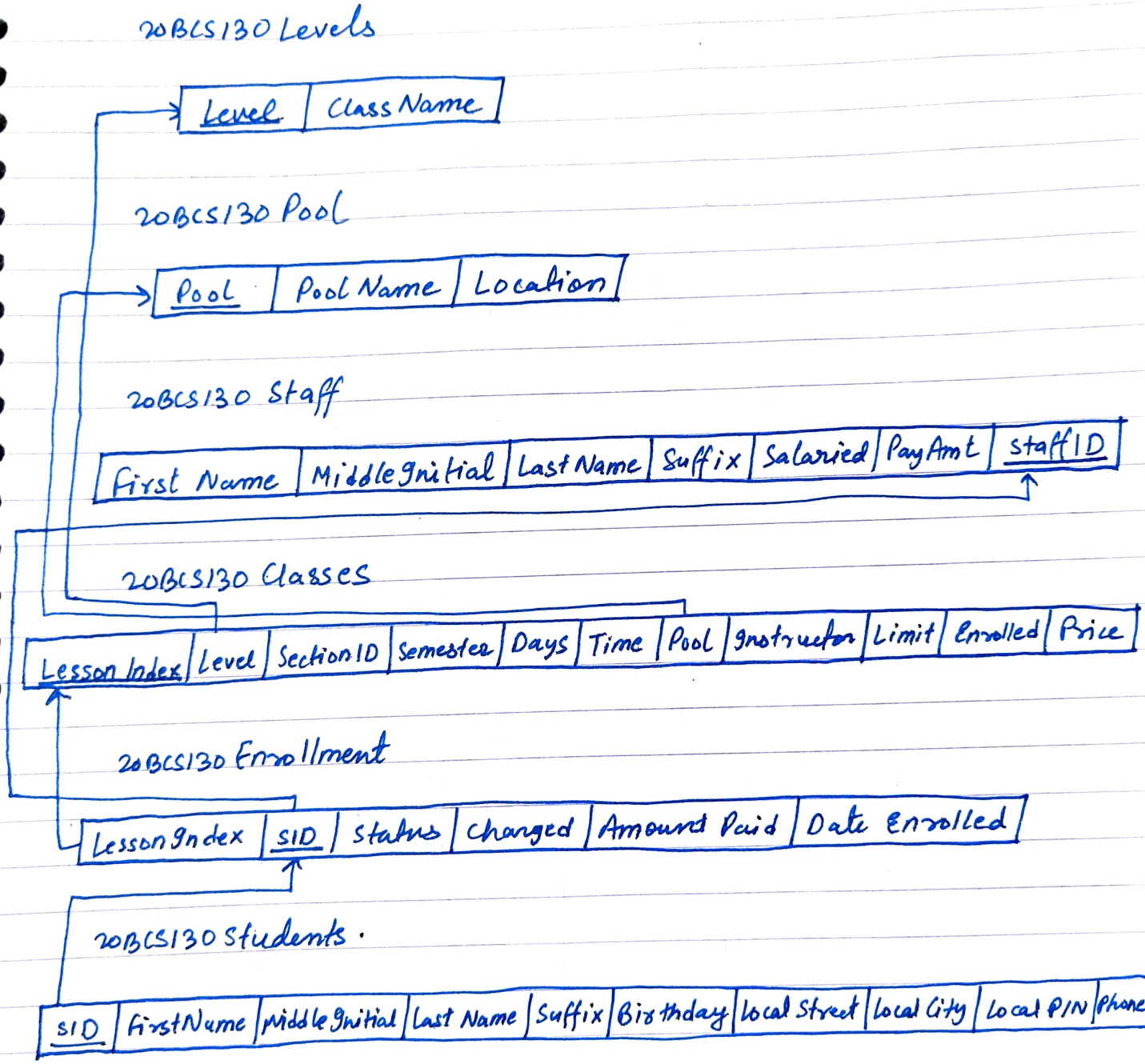
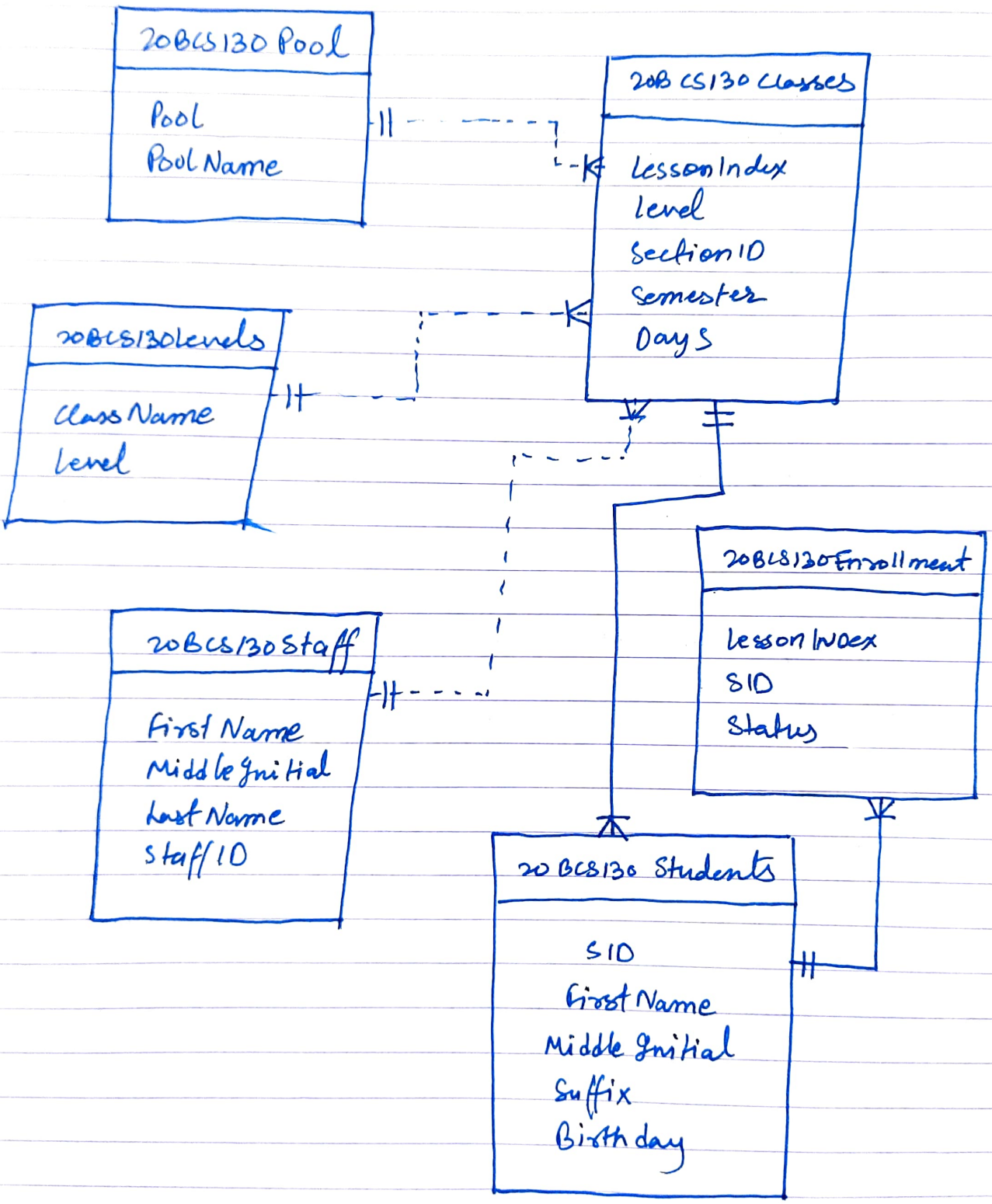
Sudiepto Chatterjee
20BCS130

Ans1 Schema Diagram



Sudiepto Chatterjee
20BCS130

Conceptual Design



Sudiptto Chatterjee
20BCS8130

Ans 2

degree (Pool) = 3
degree (Levels) = 2
~~Classes~~
degree (Classes) = 11
degree (Staff) = 7
degree (Enrollment) = 6
degree (Students) = 10

The cardinality of all the entities are zero because currently there are no tuples inserted.

Ans 3

Screenshot as a pdf.

Ans 4 As it is clearly visible that each table has a primary key so each table can be identified individually. So each table is a strong entity.
Therefore there are no weak entities.

~~Ans 5~~

Sudiptto Chatterjee
20B48130

Ans 5 Consider the following case:

Staff

FirstName	MiddleInitial	LastName	Suffix	Salaried	PayAmount	StaffID.
Ram	Kumar	Verma		80000	90000	1
Ravi	Kumar	Sharma		80000	70000	2
Ram	Gopal	Verma		70000	90000	3

Here in this instance we can see that there is ~~one~~ data redundancy.

We can avoid these redundancies using Normalization.