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Q-1  
Ans

## SCEMA

Levels

Level	Class Name
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Pool

Pool	Pool Name	Location
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Staff

First Name	Middle Name	Last Name
Suffix	Salary	Pay Amount

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Class

Lesson Index	Level	Section ID	Semester	Days
Time	Pool	Instructor	Unit	Enrolled B
Price				

Enrollment

Lesson Index	SiD	Status
Charged	Amount Paid	Date Enrolled

&

Students

SiD	First Name	Middle Name	Last Name
Suffix	Birthday	Local Street	Local City
Local Postal Code	Local Phone		

Q-2

Ans - Binary Relationship is the the degree of all relationship in ~~concept data model~~ Conceptual data model.

Cardinality of the ~~conceptual data model~~ is many to one and one

Cardinality of the conceptual data model in Swimming Pool Database is ~~many~~ many to one and one to many cardinality ratios present there.

Q-3

Ans Weak entity in this ~~Swimming Pool~~ Swimming Pool Data model is Enrollment table. ~~Because~~

To make it strong entity, we take the ~~foreign~~ foreign keys or ~~add~~ foreign keys with discipline attributes as primary keys.

Q-4

Ans There is data redundancy as found in the Physical data model as it is ~~already~~ already efficient by decomposing the table.



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Ques-3 / Ques-1 Description

- Ans-1 A pool may or may not ever have a class.
- # The levels table must always be associated with at least one class.
  - # The staff table may not have ever taught a class.
  - # All students must be enrolled in at least one class.
  - # The class must have students enrolled in it.
  - # The class must have a valid pool.
  - # The class may not have an instructor assigned.
  - # The class must always be associated with an existing level.