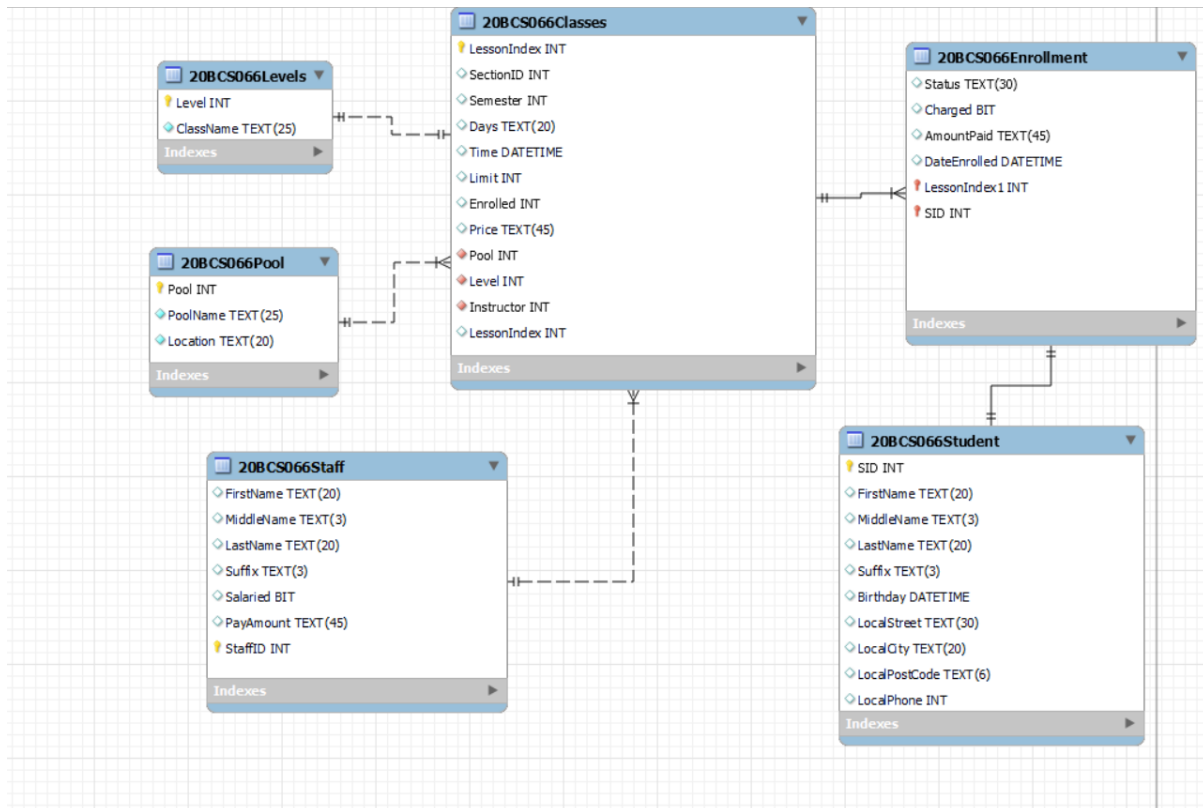


## Quiz 1

Question 1: -

Answer: -



Description:

- One level Students must have one class.
- One staff member can handle multiple classes.
- One student Swimmer must have only one enrolment.
- Multiple classes can be conducted in the same pool.
- One class can have multiple enrolment numbers.

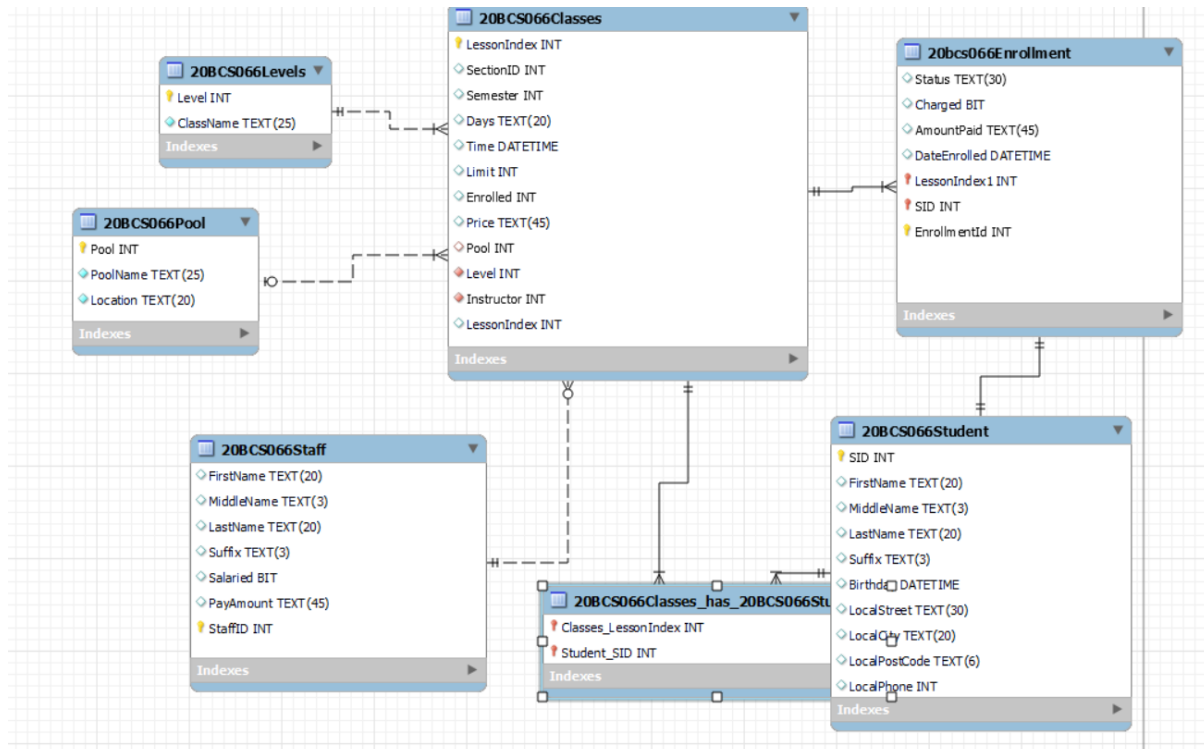
Question 2: -

Answer:

|                    |               |                  |
|--------------------|---------------|------------------|
| 20BCS033levels     | [one to one]  | 20BCS033Classes  |
| 20BCS033pools      | [one to many] | 20BCS033Classes  |
| 20BCS033staff      | [one to many] | 20BCS033Classes  |
| 20BCS033enrollment | [many to one] | 20BCS033Classes  |
| 20BCS033enrollment | [one to one]  | 20BCS033Students |

Question 3 :-

Answer: -



Description: -

- 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 ever have taught a 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 have always been associated with an existing level.

Question 4: -

Answer: -

The Weak entity in our Physical data model is 20BCS033Enrollment Table because it contain foregin key as primary key (like SID, Lesson Index). To make that entity strong entity we we can create a new primary key like Enrolmentid

Question 5: -

Answer: -

In this Physical Data model, no data redundancy is possible