QUESTION – 1(CONCEPTUAL DATA MODEL)

There are 6 tables with entities as follows:

1 POOL

2 STAFF

3 CLASSES

4 LEVELS

5 ENROLLMENT

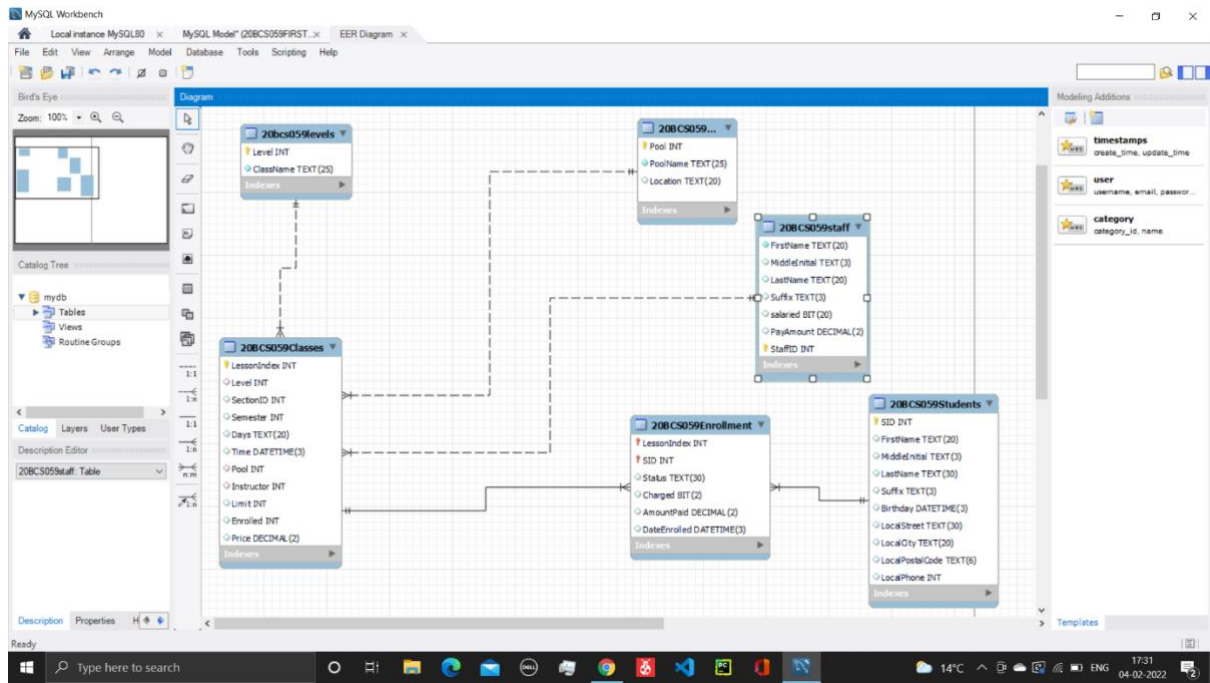6 STUDENTS

QUESTION -2

a. students-enrollment : one to many

b. enrolment-classes : many to one

c. classes- staff : many to one

d. classes-pool : many to one

e. classes – level : many to one

QUESTION – 3

Entity – relationship diagram:

QUESTION -4

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Q4) The only weak entity in this model

1. Enrollment.

This is because it does not have a primary key consisting of attributes of its own, but has two (2) foreign keys taken together as its primary key.

So, the entities existence depends on the existence of other 2 entities. Remaining all the entities are strong.

QUESTION – 5

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65:) There is no redundancy occuring in this model. All the tables have the necessary and relevant information stored in them, and where there is a need, foreign keys are made use to reference data in other relations.