

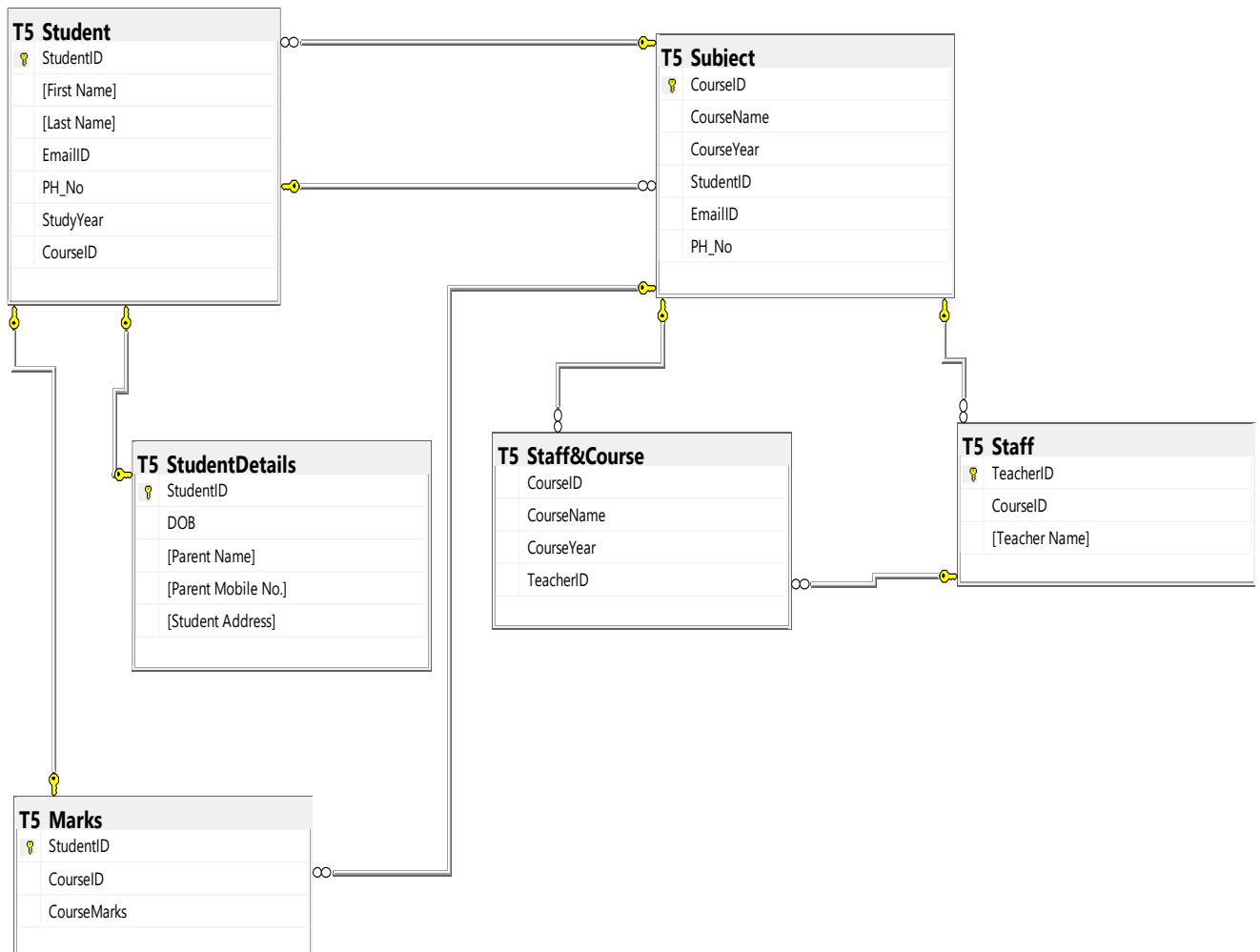
DBMS LAB ASSIGNMENT-1

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ER DIAGRAM OF SCHOOL DATABASE:



Weak entity: The entity which do not have any primary key, cannot be identified on their own and depend on some other entity is known as weak entity.

Strong entity: The strong entity has a primary key. Its existence is not dependent on any other entity.

So, In the above ER diagram we can say that **T5_Staff&Course** entity is weak entity, as we can see there is no primary key for that entity. Hence, it depends on strong entities like **T5_Subject** and **T5_Staff**.

Weak relationship: A weak, or non-identifying relationship exists if the primary key of the related entity does not contain a primary key component of the parent entity.

So that, we can say the relationships between the following entities are weak:

- i) T5_Subject, T5_Student
- ii) T5_Subject, T5_Staff
- iii) T5_Subject, T5_Staff&Course
- iv) T5_Staff, T5_Staff&Course
- v) T5_Student, T5_Subject
- vi) T5_Student, T5_Marks

Strong relationship: A strong, or identifying relationship exists if the primary key of the related entity contains the primary key component of the parent entity.

The following are the strong relationships in the above ER diagram:

- i) T5_Subject, T5_Marks
- ii) T5_Subject, T5_StudentDetails