

DBMS LAB ASSIGNMENT 1

NAME : MATURI JOSHASREE

REG NO : 19BCS069

GROUP : 5

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 a weak entity.

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