

Questions asked from this chapter

- Q. What are the components of ER diagram? Explain the functions of various symbols used in ER diagram. Construct an ER diagram to store data in a library of your college. (10 marks-2078)
- Q. Explain the use of primary key & foreign key in DBMS with example. What is the role of foreign key? (2076-5 marks)
- Q. What is the difference between Entities and Entity sets? Explain with example. (2076).
- Q. Construct an ER diagram for online book store where customers buy book online. (2075)
- Q. What do you mean by ER model? Explain strong & weak entity set. (2073).

* Difference between Primary Key & Foreign Key

Primary key	Foreign key
P) It helps us to uniquely identify a record in the table.	i) It is the field in the table that is the primary key of another table.
PP) Primary key never accepts Null value.	ii) A foreign key may accept multiple Null values.
PPS) We can have a single primary key in the table.	iii) We can have multiple foreign keys in the table.
PV) Primary key is a clustered index and data in the DBMS are physically organized in the sequence of the clustered index.	iv) A foreign key cannot automatically create an index, clustered or non-clustered. However you can manually create an index on the foreign key.

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* Difference between strong entity set and weak entity.

Strong Entity set

Weak entity set.

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| P) | Strong entity set always has a primary key. | i) It does not have enough attributes to build a primary key. |
| ii) | It is represented by a rectangle symbol. | ii) It is represented by a double rectangle symbol. |
| iii) | It contains a primary key represented by the underline symbol. | iii) It contains a partial key which is represented by a dashed underlined symbol. |
| iv) | The member of a strong entity set is called as dominant entity set. | iv) The member of a weak entity set is called as subordinate entity set. |
| v) | Primary key is one of its attributes which helps to identify its member. | v) In a weak entity set, it is a combination of primary key & partial key of the strong entity set. |
| vi) | In the ER diagram, the relationship between two strong entity set is shown by a diamond symbol. | vi) The relationship between one strong & a weak entity set is shown by a double diamond symbol. |
| vii) | The connecting line of the strong entity set with the relationship is single
<u>classmate</u> | vii) The connecting line of the relationship set is is double. |