Entity Relationship Diagram (ERD)

Database is absolutely an integral part of software system. To fully utilize ER Diagram in database engineering guarantee you to produce high quality database design to use in database creation, management and maintenance. An ER model also provides a means for communication.

ER Model Construction: Entity instance - person, place, object, event, concept (often corresponds to a row in a table)

Entity Type – collection of entities (often corresponds to a table)

Attribute - property or characteristic of an entity type (often corresponds to a field in a table)

Relationship instance – link between entities (corresponds to primary key-foreign key equivalencies in related tables)

Relationship type – It is category of relationship and defines link between entity types. A relationship between two entities signifies that the two entities are associated with each other somehow. For example, student might enroll into a course. The entity Student is therefore related with Course, and the relationships is presented as a connector connecting between them.

Attribute - property or characteristic of an entity type

Classifications of attributes:

* Simple versus Composite Attribute
* Single-Valued versus Multivalued Attribute
* Stored versus Derived Attributes
* Identifier Attributes

**ER Diagram for course registration (Screenshot )**

