Ms-Access & Entity relationship diagram (ER – Diagram)

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Ms-Access

MS-access is one type of powerful database management system which can be used to create a database that records the data in a well-structured manner and can be retrieved easily and flexible. In other words, it has the most powerful tools, to help to make a document manly, it used to create a new database file, create forms and calculate data. It also called database management system.

Objects in MS-access

		Table
	MS-Access				Field
S.No.	Name	Salary	Age		
1	Ram	10,000	35		Reco
2	Shyam	20,000	26		
3	Sita	30,000	36		

- Table
- Field
- Record
- Form
- Report
- Query

Table

A table is a collection of different fields and records. Each table has a unique name and purpose. Each table is made of different rows and columns. E.g. the name of the table is "student."

Field

It is the most basic unit of a table. Commonly a heading of the table is known as a field. Each filed has a unique name, data type and some other characteristics.

Record

The record is a data presented in the table. It is a collection of the full set of information about a single item. If a group of records are selected at a time, it is called a record set.

Form

The form is a graphical representation of the table. We can add, delete, and update records in the table by using s form.

Report

A report is an effective way to present data in printed format. We have control over the size and appearance of the report.

Query

A query is a command that let us access data from database or queries are the questions that we ask to the database and it turns to get the reply in the form of result.

Entity relationship diagram (ER – Diagram)

The ER model defines the conceptual view of a database. It works around real-world entities and the associations among them. At view level, the ER model is considered a good option for designing database.

An entity relationship diagram consists of an entity, attributes, and relationship. So,

Entity

An entity can be a real-world object, either animate or inanimate, that can be easily identifiable. For e.g. in a school database students, teachers, classes, and courses offered can be considered as entities. May an entity is a collection of similar types of entities. An entity set may contain entities with attribute sharing similar values.

Attributes

Entities presented by means of their properties called attributes. All attributes have values. For e.g. a student entity may have a name, class, and age as attributes. There exists a domain or range of values that can be assigned to attributes.

Another e.g. a student's name cannot be a numeric value. It has to be alphabetic. A student's or people age cannot be negative, etc.

Relationship

The association among entities is a relationship. For e.g. an employee works at a department, a student enrolls in a course. Here, works and enrolls called relationships.

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