

Question 1: Define primary key and give one example.

Answer:

A candidate key chosen by the database designer to act as key is the primary key. An entity type may have more than one candidate keys, in that case the database designer has to designate one of them as primary key, since there is always only a single primary key in an entity type. The primary key can also be defined as the successful candidate key. (Page 82)

Question 2: Define Relationship

Answer:

The relationship is a link or association between one or more entity types and we discussed it in E-R data model. However the degree of a relation is the number of columns in that relation.

Question 3: Define the first normal form.

Answer:

### First Normal Form

A relation is in first normal form if and only if every attribute is single valued for each tuple. This means that each attribute in each row, or each cell of the table, contains only one value. No repeating fields or groups are allowed. An alternative way of describing first normal form is to say that the domains of attributes of a relation are atomic, that is they consist of single units that cannot be broken down further. There is no multivalued (repeating group) in the relation multiple values create problems in performing operations like select or join. For Example there is a relation of Student

Question 4: Describe functional dependency

Question 5: Describe with example function of Union Operation in relational algebra

Question 6: "A good writer is highly investigative in his approach", How far do you agree with this statement. Give your answer with reference to general qualities of a good writer.

Question 7: "A good writer should be considerate towards his/her readers." Briefly explain with an example.

Answer:

it means that when writer is writing something he or she should think who his reader is. What they want to read. The piece of writing should not be too hard or complicated for his readers to understand. It should have verity and interesting elements to keep the reader captivated.

Question 8:

A misplaced modifier is a word, phrase, or clause that is improperly separated from the word it describes.

Indicate the error of misplaced modifier in the sentence from options given below

1. Making only minimum wage, I nearly earned \$2,000 last summer.
2. The bus station was located by a river which was made of red brick.
3. A fish was found in the Pacific Ocean that had been considered extinct.

Answer:

1. Making only minimum wage, I nearly earned \$2,000 last summer (Misplaced phrases)  
2. **The bus station was located by a river which was made of red brick (Misplaced words)**  
3. **A fish was found in the Pacific Ocean that had been considered extinct (Misplaced clauses)**