# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

FOR GOD AND COUNTRY

**WORKSHEET – 31 (Answer Key)**

**Topic : Cardinality and different types of keys**

**Subject: COMPUTER SCIENCE** **Class - 12** **F.M:15**

**Chapter: Relational Model** **Date: 25/07/2020**

## Choose the correct answer for each question: 15x1=15

1. 

This indicates _____ cardinality.
a) One to many
b) One to one
c) **Many to many**
d) Many to one
2. _____ express the number of entities to which another entity can be associated via a relationship set.
a) **Mapping Cardinality**
b) Relational Cardinality
c) Participation Constraints
d) None of the mentioned
3. An entity in A is associated with at most one entity in B, and an entity in B is associated with at most one entity in A. This is called as
a) One-to-many
b) **One-to-one**
c) Many-to-many
d) Many-to-one
4. Which of the following is usually chosen as a primary key for a relation?
a) a candidate key that is composite
b) a super key
c) **a candidate key that is minimal**
d) all of the above
5. An entity in A is associated with at most one entity in B. An entity in B, however, can be associated with any number (zero or more) of entities in A.
a) One-to-many
b) One-to-one
c) Many-to-many
d) **Many-to-one**
6. The minimal set of super key is called:
a) Primary key
b) Secondary key

c) **Candidate key**
d) foreign key

7. Choose the correct statement regarding super keys:
   a) **A super key is an attribute or a group of multiple attributes that can uniquely identify a tuple**
   b) A super key is a tuple or a set of multiple tuples that can uniquely identify an attribute
   c) Every super key is a candidate key
   d) A super key is an attribute or a set of attributes that distinguish the relation from other relations
8. In a one-to-many relationship, the entity that is on the one side of the relationship is called a(n) _____ entity.
   **a) Parent**
   b) Child
   c) Instance
   d) subtype
9. In which of the following is a single-entity instance of one type related to many entity instances of another type?
   a) **One-to-many**
   b) One-to-one
   c) Many-to-many
   d) Many-to-one
10. In which of the following can many entity instances of one type be related to many entity instances of another type?
    a) One-to-many
    b) One-to-one
    c) **Many-to-many**
    d) Many-to-one
11. Every candidate key is super key.
    a) **True**
    b) False
12. What is a foreign key?
    a) A foreign key is a primary key of a relation which is an attribute in another relation
    b) A foreign key is a super key of a relation which is an attribute in more than one other relations
    c) **A foreign key is an attribute of a relation that is a primary key of another relation**
    d) A foreign key is the primary key of a relation that does not occur anywhere else in the schema
13. The primary key is selected from the:

    a) Primary key
    b) Secondary key
    c) **Candidate key**
    d) foreign key

14. _____ is an attribute or multiple attributes that can uniquely identify a tuple in a relation.
    a) Primary key
    b) **Super key**
    c) Candidate key
    d) foreign key

15.What is the method of specifying a primary key in a schema description?
a) By writing it in bold letters
b) By underlining it using a dashed line
c) By writing it in capital letters
d) **By underlining it using a bold line**

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