



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



## WORKSHEET – 30 (ANSWER KEY)

Topic : Codd's rule, basic concept of relational model

Subject: COMPUTER SCIENCE

Class - 12

F.M:15

Chapter: Database Management System

Date: 18/07/2020

**Choose the correct answer for each question:**

**15x1=15**

1. Table is also referred as:
  - a) Relation
  - b) Column
  - c) Attribute
  - d) Tuple
2. An attribute is a \_\_\_\_\_ in a relation.
  - a) Row
  - b) Column
  - c) Value
  - d) Tuple
3. A row is also called \_\_\_\_\_ in a relation.
  - a) table
  - b) Column
  - c) Value
  - d) Tuple
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. Who proposed the relational model?
  - a) Bill Gates
  - b) E.F Codd
  - c) Herman Hollerith
  - d) Charles Babbage
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. What is the degree of a table with 1000 rows and 10 columns?
  - a) 100
  - b) 1000
  - c) **10**
  - d) None of these
9. In formal relational model, the set of indivisible values is called:
  - a) range
  - b) **domain**
  - c) relation
  - d) tuple
10. What is an Instance of a Database?
  - a) The logical design of the database system
  - b) The entire set of attributes of the Database put together in a single relation
  - c) **The state of the database system at any given point of time**
  - d) The initial values inserted into the Database immediately after its creation
11. How many rules in "CODD'S RULES" of Relational Model of database systems?
  - a) **12**
  - b) 13
  - c) 14
  - d) 15
12. NULL can be interpreted as :
  - a) data is missing
  - b) data is not known
  - c) data is not applicable.
  - d) **all of these**
13. Which formal method that locates and analyses relation schemas on the basis of their primary, candidate keys, and the FD's that are present among the attributes of these schemas:
  - a) Functional Dependency
  - b) Database modelling
  - c) **Normalization**
  - d) Decomposition
14. 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**
15. Normalization process was developed by E.F Codd in early
  - a) 1969
  - b) **1970**
  - c) 1971
  - d) 1971

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