

DBM Cheat Sheet

by williamow12 via cheatography.com/69238/cs/17452/

Definitions 1

Generalization - the process of defining a more general entity type from a set of more specialized entity types

Weak Entity type - an entity type whose existence depends on another entity type a Composite Key - is a set of more than one key that, together, uniquely identifies each record. Foreign Key - is a key in some table which uniquely identifies rows in another table The entity integrity rule - The primary key for a row is unique, and any primary key is not null

Definitions Continued

Referential Integrity Constraint - each foreign key value must match a primary key value in the other relation

Meta-Data - Data that describes the properties of other data - ex. (rules or constraints,data definitions and structures)

CASE - a class of tools that automates the design of databases and application programs. **Insertion anomaly** - when certain attributes cannot be inserted into the database without the presence of other attributes

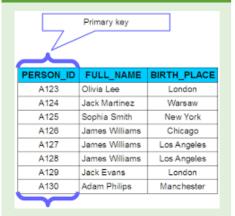
True/False

- 7. An entity type name should always be a singular noun **True**
- 8. A multivalued attribute may take on more than one value for a particular entity instance -

True

- 9. A cardinality constraint tells what kinds of properties are associated with an entity **False**
- 10. A member of a subtype does NOT necessarily have to be a member of the supertype False
- 11. There are three separate discriminators in the following diagram because of the overlap

Primary Key



Insertion



Insert Anomaly

Deletion Anomaly

Family and Test Consess Seatily 67 July 1945 Aurilly 1945

Deletion

... ...

**True/False

- 1. Metadata are data that describe the properties of other data **True**
- 2. Redundancy increases the risk of inconsistent data **True**
- 3. Cost and complexity are just two of the disadvantages of database processing **True**
- 4. In an E-R diagram, strong entities are represented by double-walled rectangles -

False

- 5. In an E-R diagram, an associative entity is represented by a rounded rectangle **True**
- 6. A single occurrence of an entity is called an entity instance **True**

True/False

- 13. A composite key consists of only one attribute **False**
- 14. A primary key is an attribute that uniquely identifies each row in a relation **True**
- 15. The following figure is an example of total specialization **False**
- 16. A foreign key is a primary key of a relation that also is a primary key in another relation -

False

17. One property of a relation is that each attribute within a relation has a unique name - **True**

Composite Key

Primary Key

	StudentName John Doe		Year 2009		Composite Key
0023765 J					
0035643 A	Stu	dentid		nitCode	UnitName
0061234 Po	te 00:	0023765		G45783	Advance Database
	00:	0023765		645832	Network Systems
Tables in	00:	0023765		G45734	Multi-User Operating Systems
	00:	0035643		G45832	Network Systems
	00:	0035643		645951	Project
	00	0061234		G45783	Advance Database

CompKey

C

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Definitions 3

Deletion anomaly - exists when certain attributes are lost because of the deletion of other attributes

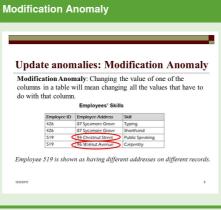
When a regular entity type contains a multivalued attribute, one must - create two new relations, one containing the multivalued attribute

Transitive Dependency - A functional dependency between two or more non-key attributes

Total Specialization - specifies that for each entity instance of the supertype must be a member of some subtype in the relationship

True/False

- 18. There can be multivalued attributes in a relation **False**
- 19. Unlike columns, the rows of a relation may not be interchanged and must be stored in one sequence **False**
- 20. The allowable range of values for a given attribute is part of the domain constraint **True**
- 21. A cascading delete removes all records in other tables associated with the record to be deleted **True**
- 22. When transforming a one-to-one relationship, a new relation is always created **False**



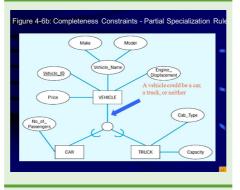
Mod

Transitive Specialization



Trans

Partial Specialization



Part Spec

C

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