



# مفاهيم قواعد البيانات

3:5

الاحد 6/6/2021

د مصطفى على

Faculty of Computers & Information, Assiut University

2nd Level

Final Exam

Duration: 2 hours

1. \* الإسم الرباعي (بالعربي فقط).

ماريا سامح الفونس قزمان

2. \* رقم الجلوس.

1620195209

3. \* المستوي.

☐ الاول

☒ الثاني

☐ الثالث

- ☐ رابعة 2013
- ☐ رابعة 2014
- ☐ رابعة 2015
- ☐ رابعة 2016
- ☐ رابعة 2017

4. \* البرنامج

- ☐ عام
- ☒ بايو
- ☐ هندسة

5. \* رقم المعمل

- ☐ ج٠
- ☐ د٠
- ☐ اب٠
- ☐ اد٠
- ☐ اه٠
- ☐ أ٢
- ☐ ب٢
- ☐ ج٢
- ☐ د٢
- ☐ ه٢
- ☐ أ٣
- ☐ ب٣

☒ ج ٣

☐ د ٣

☐ هـ ٣

☐ أ ٤

☐ ب ٤

6. \* رقم الكمبيوتر 6.

19

7. \* الكود (قد تمت مراجعة بيانات الطالب ورقم الجلوس) 7.

395F32343031

8. A software package/ system to facilitate the creation and maintenance of a computerized database  
(2 Points)

☐ Data

☐ Database

☒ DBMS

☐ Database Schema

9. The keyword that eliminate duplicate tuples in query results  
(2 Points)

☐ Where

☐ Like

- ☒ Distinct
- ☐ In between

10. Customers, cars, and parts are examples of:  
(2 Points)

- ☒ entities
- ☐ attributes
- ☐ cardinals
- ☐ relationships

11. Which is the database language:  
(2 Points)

- ☐ C
- ☐ C++
- ☒ SQL
- ☐ SLQ

12. DML language is used to  
(2 Points)

- ☐ Define schema
- ☐ Define internal level
- ☒ Access Data
- ☐ Define Authorization

13. Data Definition Language (DDL) Used to specify database retrievals and updates  
(2 Points)

- ☐ True
- ☒ False

14. Which person is responsible for overall activities for database:  
(2 Points)

- ☐ Database designer
- ☐ Database analyst
- ☒ Database Administrator
- ☐ Database manager

15. Referential Integrity constraint means that a primary key value cannot be null  
(2 Points)

- ☐ True
- ☒ False

16. Which of the following is not an integrity constraint?  
(2 Points)

- ☐ Not null
- ☒ Positive
- ☐ Unique
- ☐ Check 'predicate'

17. Valid State is a state that satisfies the structure and constraints of the database  
(2 Points)

- ☒ True
- ☐ False

18. A set of concepts to describe the structure of a database, the operations for manipulating these structures, and certain constraints that the database should obey  
(2 Points)

- ☒ Data Model
- ☐ Data analysis
- ☐ DBMS
- ☐ Metadata

19. A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.  
(2 Points)

- ☐ one-to-one
- ☒ many-to-many
- ☐ one-to-many
- ☐ strong

20. An entity type whose existence depends on another entity type is called a \_\_\_\_\_ entity  
(2 Points)

- ☐ strong

- ☒ weak
- ☐ codependent
- ☐ variant

21. A collection of interrelated records is called a \*

(2 Points)

- ☒ Database
- ☐ Spreadsheet
- ☐ Management information system
- ☐ Text file

22. Schema is usually stored in\_\_\_\_\_.

(2 Points)

- ☒ Data Dictionary
- ☐ View
- ☐ Table
- ☐ Query

23. Course(course\_id,sec\_id,semester), here the course\_id,sec\_id and semester are \_\_\_\_\_ and course is a \_\_\_\_\_

(2 Points)

- ☐ Relations, Attribute
- ☒ Attributes, Relation
- ☐ Tuple, Relation
- ☐ Tuple, Attributes

24. In contemporary databases, the top level of the hierarchy consists of \_\_\_\_\_ each of which can contain \_\_\_\_\_  
(2 Points)

- ☒ Catalogs, schemas
- ☐ Schemas, catalogs
- ☐ Environment, schemas
- ☐ Schemas, Environment

25. In ER model rectangle represents  
(2 Points)

- ☐ Attributes
- ☒ Entity set
- ☐ Relationships
- ☐ Primary Key

26. \_\_\_\_\_ is the real world object, such as a person, place etc.  
(2 Points)

- ☐ Attribute
- ☒ Entity
- ☐ Records
- ☐ Tuple

27. Which of the following provides the ability to query information from the database and insert tuples into, delete tuples from, and modify tuples in the database?  
(2 Points)



- ☒ DML(Data Manipulation Language)
- ☐ DDL(Data Definition Language)
- ☐ Query
- ☐ Relational Schema

28. An attribute that can be broken down into smaller parts is called a(n)  
(2 Points)

- ☐ Associative
- ☐ Simple
- ☒ Composite
- ☐ Complex

29. SELECT DISTINCT is used if a user wishes to see duplicate columns in a query  
(2 Points)

- ☐ True
- ☒ False

30. An entity has a set of \_\_\_\_\_ that describe it.  
(2 Points)

- ☒ Attributes
- ☐ Entity
- ☐ Relations
- ☐ Tuples

31. Foreign key is the one in which the \_\_\_\_\_ of one relation is referenced in another relation  
(2 Points)

- ☐ Foreign key
- ☒ Primary key
- ☐ References
- ☐ Check constraint

32. The number of entity types that participate in a relationship is called the:  
(2 Points)

- ☐ Number
- ☐ Identifying characteristic.
- ☒ Degree
- ☐ Counter

33. A user that manages the files of application in DBMS is called  
(2 Points)

- ☐ Administrator
- ☐ Database analyst
- ☒ File Manager
- ☐ Casual User

34. Which is not the feature of database  
(2 Points)

- ☐ Data redundancy

- ☒ Independence
- ☐ Flexibility
- ☐ Data Integrity

35. \_\_\_\_\_ is the attribute or group of attributes that uniquely identify occurrence of each entity.  
(2 Points)

- ☐ Foreign key
- ☒ Super Key
- ☐ Primary Key
- ☐ Data Key

36. Database \_\_\_\_\_ which is the logical design of the database, and the database \_\_\_\_\_ which is a snapshot of the data in the database at a given instant in time.  
(2 Points)

- ☐ Instance, Schema
- ☐ Relation, Schema
- ☐ Relation, Domain
- ☒ Schema, Instance

37. ORDER BY clause is used to eliminate duplicate tuples in query results  
(2 Points)

- ☐ True
- ☒ False

38. In order to ensure that an instructor's salary domain allows only values greater than a specified value use  
(2 Points)

- ☐ Value >= 30000.00
- ☐ Not null
- ☒ Check(value >= 29000.00)
- ☐ Check(value)

39. Which of the following is used to delete the entries in the referenced table when the tuple is deleted in course table?  
(2 Points)

- ☐ Delete
- ☒ Delete cascade
- ☐ Set null
- ☐ Update cascade

40. Key constraint means that a primary key value cannot be duplicated  
(2 Points)

- ☒ True
- ☐ False

41. A \_\_\_\_\_ in a table represents a relationship among a set of values  
(2 Points)

- ☐ Column
- ☐ Key

☒ Row

☐ Entry

42. Using which language can a user request information from a database?  
(2 Points)

☒ Query

☐ Relational

☐ Structural

☐ Compiler

43. The overall description of a database is called\_\_\_\_\_.  
(2 Points)

☐ Data integrity

☐ Data manipulation

☒ Database schema

☐ Data definition

44. For each attribute of a relation, there is a set of permitted values, called the \_\_\_\_\_ of that attribute  
(2 Points)

☒ Domain

☐ Relation

☐ Set

☐ Schema

45. Internal level has  
(2 Points)

- ☐ Individual Users View of the database
- ☐ Community view of the database
- ☒ Physical Representation of the database
- ☐ Relation Representation of the database

46. Which one of the following given statements possibly contains the error?  
(2 Points)

- ☐ select \* from emp where empid = 10003;
- ☐ select empid from emp where empid = 10006;
- ☐ select empid from emp;
- ☒ select empid where empid = 1009 and Lastname = 'GELLER';

47. What do you mean by one to many relationships?  
(2 Points)

- ☒ One class may have many teachers
- ☐ One teacher can have many classes
- ☐ Many classes may have many teachers
- ☐ Many teachers may have many classes

48. Data integrity constraints are used to:  
(2 Points)

- ☐ Control who is allowed access to the data

- ☐ Ensure that duplicate records are not entered into the table
- ☒ Improve the quality of data entered for a specific property (i.e., table column)
- ☐ Prevent users from changing the values stored in the table

49. Which data model which define how the data is actually stored is  
(2 Points)

- ☐ logical model
- ☐ external model
- ☒ internal model
- ☐ none of these

50. The keyword used as comparison operator in substring pattern matching is  
(2 Points)

- ☐ Distinct
- ☒ Like
- ☐ Order By
- ☐ Join

51. Two tables can be linked with relationship to \_\_\_\_  
(2 Points)

- ☐ Ensure data entry
- ☒ Ensure data integrity
- ☐ Create Primary Key
- ☐ Ensure Foreign Key

52. Date is the type of attribute:  
(2 Points)

- ☐ Simple
- ☒ Composite
- ☐ Single values
- ☐ Multi valued

53. The data that you are interested in capturing about an entity is called an instance.  
(2 Points)

- ☒ True
- ☐ False

54. Which one is the guideline of Referential integrity in a relationship?  
(2 Points)

- ☐ Do not enter a value in the primary key field of child table if that value does not exist in the primary key of the parent table
- ☐ Do not enter a value in the foreign key field of a parent table if that value does not exist in the primary key of the child table
- ☒ Do not enter a value in the foreign key field of a child table if that value does not exist in the primary key of the parent table
- ☐ Do not enter a value in the foreign key field of child table if that value does not exist in the foreign key of the parent table

55. \_\_\_\_\_ is the information about data.  
(2 Points)

- ☐ Data
- ☒ Meta-Data



- ☐ Entity
- ☐ Relations

56. The logical representation of an organization's data is called a(n):  
(2 Points)

- ☐ database model
- ☒ entity-relationship model
- ☐ relationship systems design
- ☐ database entity diagram

57. Which level of database is viewed by user:  
(2 Points)

- ☐ Internal level
- ☒ External Level
- ☐ Conceptual Level
- ☐ Storage Level

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