

# Introduction to Databases (TEST)

1. Email address \*

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2. What is a database-management system (DBMS)?

1 point

*Mark only one oval.*

- ☐ A piece of software that sits between the operating system and the file system.
- ☐ A collection of relations (tables) containing rows and columns.
- ☐ A collection of interrelated data and a set of programs to access those data.
- ☐ A model to represent abstract data in a computer system.

3. Which of the following is not a DBMS?

1 point

*Mark only one oval.*

- ☐ Oracle
- ☐ Docker
- ☐ MariaDB
- ☐ Postgresql

4. Which of the following was not a problem when data was stored directly into files before the popularization of modern DBMS?

1 point

*Mark only one oval.*

- ☐ The Entity-Relationship Model.
- ☐ Concurrent-access anomalies.
- ☐ Data isolation.
- ☐ Security

5. Which of the following is not one of the data abstraction levels?

1 point

*Mark only one oval.*

- ☐ View level.
- ☐ Physical level.
- ☐ Logical level.
- ☐ Independent level.

6. Which of the following is not one of the models we have seen?

1 point

*Mark only one oval.*

- ☐ Integrative Data Model.
- ☐ Object-based Data Model.
- ☐ Relational Model.
- ☐ Entity-Relationship Model.

7. What does SQL stand for?

1 point

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- ☐ Structured Query Language
- ☐ Storage Query Language
- ☐ Spontaneous Query Language
- ☐ Simple Query Language

8. What language do we use to specify the database schema?

1 point

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- ☐ Database Specification Language
- ☐ Database Schema Language
- ☐ Data Definition Language
- ☐ Data Description Language

9. The characteristic data structure of relational databases is

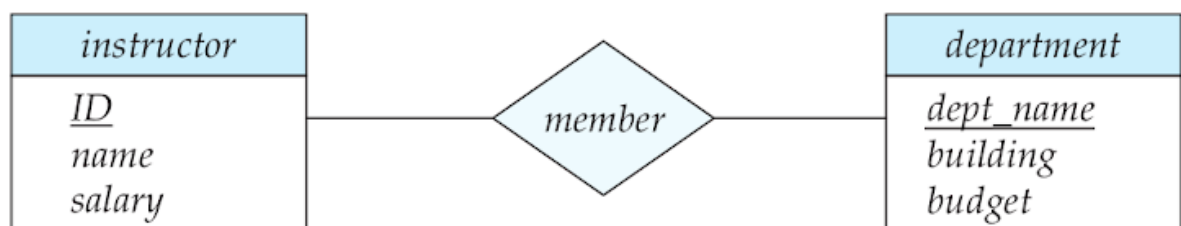
1 point

Mark only one oval.

- ☐ The tree.
- ☐ The mesh.
- ☐ The list.
- ☐ The table.

10. The following picture shows

1 point



Mark only one oval.

- ☐ An Entity-Relationship diagram.
- ☐ A physical model.
- ☐ An object diagram.
- ☐ A flow diagram.

11. Atomicity, Consistency, Isolation, Durability (ACID)

1 point

Mark only one oval.

- ☐ are the properties of the Relational Model.
- ☐ are the properties of physical schema.
- ☐ are the properties of database transactions.
- ☐ are the properties of object oriented databases.

12. Which one of the following users is more likely to use a DDL?

1 point

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- ☐ Naive users (tellers, agents, web users)
- ☐ Application programmers
- ☐ Sophisticated users (analysts)
- ☐ Database administrators

13. The action of extracting knowledge from large amounts of stored data is called

1 point

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- ☐ Data mining
- ☐ Networking
- ☐ Machine learning
- ☐ Data refining

14. Which of the following does not belong to a three-tier architecture database application?

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*Mark only one oval.*

- ☐ Front end user
- ☐ Front end client
- ☐ Back end application server
- ☐ Back end database

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