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**Grade** 10.00 out of 10.00 (100%)

### Question 1

Correct

Mark 1.00 out of 1.00

What is the primary purpose of establishing relationships in a relational data model?

- ☒ a. To minimize data redundancy ✓
- ☐ b. To maximize data redundancy
- ☐ c. To simplify query performance
- ☐ d. To create complex data structures

### Question 2

Correct

Mark 1.00 out of 1.00

In what way does a Database Developer differ from a Database Administrator (DBA)?

- ☐ a. Developers focus on database security, while DBAs focus on query optimization.
- ☒ b. Developers primarily write code for applications, while DBAs manage and maintain the database system. ✓
- ☐ c. DBAs focus on database design, while Developers manage data backups.
- ☐ d. Both roles are synonymous and interchangeable.

### Question 3

Correct

Mark 1.00 out of 1.00

How do relational database management systems (RDBMS) differ from other types of DBMS?



- ☒ a. RDBMS only store structured data, while others handle unstructured data. ✓
- ☐ b. RDBMS uses a schema-less approach.
- ☐ c. Other DBMS types do not support data relationships.
- ☐ d. RDBMS and others have similar characteristics. |

**Question 4**

Correct

Mark 1.00 out of 1.00



What is the primary responsibility of a Database Administrator (DBA) in an organization?

- ☐ a. Writing code for applications
- ☒ b. Managing and maintaining the organization's database system ✓
- ☐ c. Designing network architectures
- ☐ d. Creating user interfaces

**Question 5**

Correct

Mark 1.00 out of 1.00

How does the concept of a composite key differ from a single-column primary key in a relational data model?

- ☐ a. A composite key is used for indexing, while a single-column primary key is not.
- ☒ b. A composite key consists of multiple columns, while a single-column primary key has only one column. ✓
- ☐ c. Both terms are synonymous and interchangeable.
- ☐ d. A single-column primary key is more complex than a composite key.