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Оцінка	**9,50** з можливих 10,00 (**95**%)

Питання 1

Правильно

Балів 1,00 з 1,00

What is a database schema?

- ○ a.   A graphical representation of the database structure.
- ○ b.   A collection of database tables.
- ○ c.   A language used to query databases.
- ◉ d.   A set of rules that defines how data is organized in a database. ⊘

Питання 2

Частково правильно

Балів 0,50 з 1,00

What is true about a foreign key constraint?

- ☐ a.   A rule that defines a unique identifier for each record in a table.
- ☐ b.   Refers to the column that value must exist.
- ☐ c.   A set of conditions that must be met for data to be inserted or updated in a table.
- ☑ d.   A mechanism to enforce referential integrity between related tables. ⊘

Питання 3

Правильно

Балів 1,00 з 1,00

What is referential integrity in database design?

- ○ a.   Ensuring that all data is stored in the correct data type.
- ◉ b.   Maintaining consistency and relationships between related tables. ⊘
- ○ c.   Protecting the database from unauthorized access.
- ○ d.   Optimizing the storage space used by the database.

Питання 4

Правильно

Балів 1,00 з 1,00

What is the purpose of normalization in database design?

- ☑ a. To eliminate data redundancy. ⊘
- ☐ b. To speed up database queries.
- ☐ c. To create complex relationships between tables.
- ☐ d. To optimize database storage space.
- ☑ e. To improve data integrity. ⊘

Питання 5

Правильно

Балів 1,00 з 1,00

Match the database term to its correct definition

A unique identifier for each record in the table.   Primary Key   ⊘

A field in one table that uniquely identifies a row of another table or the same table.   Foreign Key   ⊘

A database object that improves the speed of data retrieval operations on a table.   Index   ⊘

A rule that limits the values that can be placed in a column.   Check Constraint   ⊘

Your answer is correct.

Питання 6

Правильно

Балів 1,00 з 1,00

Which normal form requires that every non-key attribute depends on the entire primary key?

- ○ a. First normal form (1NF).
- ◉ b. Second normal form (2NF). ⊘
- ○ c. Third normal form (3NF).
- ○ d. Fourth normal form (4NF).

Питання 7

Правильно

Балів 1,00 з 1,00

Which of the following is a characteristic of a well-designed database?

- ◉ a. Minimal data redundancy. ⊘
- ○ b. High levels of data duplication.
- ○ c. Unstructured and unorganized data.
- ○ d. Lack of relationships between tables.

Питання 8

Правильно

Балів 1,00 з 1,00

Which of the following is NOT a property of a relational database?

- ○ a. Data is organized into tables.
- ○ b. Relationships can be established between tables.
- ○ c. Data redundancy is minimized.
- ◉ d. Data is stored in a hierarchical structure. ⊘

Питання 9

Правильно

Балів 1,00 з 1,00

Which type of relationship requires a linking table in a relational database?

- ○ a. One-to-one (1:1) relationship.
- ○ b. One-to-many (1:N) relationship.
- ◉ c. Many-to-many (N:M) relationship. ⊘
- ○ d. Parent-child relationship.

Питання 10

Правильно

Балів 1,00 з 1,00

A self-referencing relationship is when a table contains a foreign key that references the table's own | Primary Key | ⊘

| Foreign Key | Id | Unique Column | Index | Name |

Your answer is correct.