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Test Series

## Self-Made Assignment - Database

### ER Model to Relational Model

You have to write the answers to the questions in your notebook and write the descriptive questions in your own language

#### Solve these following Multiple Choice Questions

Q1-Which of the following becomes a table in the relational model?

- a) Attribute
- b) Entity
- c) Relationship
- d) Foreign key

Q2-What type of relationship requires a separate table in the relational model?

- a) One-to-One
- b) One-to-Many
- c) Many-to-Many
- d) None

Q3-Which of the following is a derived attribute?

- a) Name
- b) Age
- c) RollNo
- d) CourseName

Q4-In a One-to-Many relationship, where is the foreign key placed?

- a) On both tables
- b) On the "one" side
- c) On the "many" side
- d) Not required

Q5-What is the purpose of a composite key?

- a) To store multiple values in one column
- b) To combine multiple attributes into a primary key
- c) To remove redundancy
- d) To enforce foreign key constraints

#### Solve these following True/False

1. The ER model is implemented directly in the database without conversion.
2. Composite attributes should be split into smaller simple attributes.
3. A derived attribute is usually stored in the relational table.

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4. Each multivalued attribute should be placed in a separate table.
5. In a many-to-many relationship, no foreign key is required.

**Match the Following**

A (ER Concept)	(Relational Model Equivalent)
1. Entity	Junction Table
2. Attribute	Reference to Primary Key in another table
3. Relationship (M:N)	Table
4. Primary Key	Column
5. Foreign Key	Unique Identifier in Table

**Ques 1-**Describe how different types of attributes in an ER model (simple, composite, derived, and multivalued) are converted into the relational model. Provide suitable examples for each type to support your explanation.

**Ques 2-**Explain how different types of relationships (One-to-One, One-to-Many, and Many-to-Many) are represented in the relational model. For each relationship type, describe the use of foreign keys or additional tables with an example.

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