

Assignment - Relational Data Model

1. A CHECK constraint involves

1 point

- ☐ a reference to a parent table.
- ☐ a reference to a child table.
- ☒ conditions with comparison operators and logical operators involving one or more columns of the same table.
- ☐ uniqueness for one or more columns of the same table.

2. In a column specification of the CREATE TABLE statement, you must specify

1 point

- ☒ the column name and data type.
- ☐ inline constraints.
- ☐ the default value.
- ☐ table constraints.

3. In a column specification, a default value specification is required.

1 point

- ☐ True
 - ☒ False
-

3. In a column specification, a default value specification is required.

1 point

- ☐ True
- ☒ False

4. How is a M-N relationship represented in a relational database?

1 point

- ☐ through foreign keys in more than one table
- ☐ through referential integrity constraints in more than one table
- ☒ through an associative table containing a combined primary key consisting of multiple foreign keys
- ☐ through a foreign key referencing the primary key of the same table

5. What statements are true about null values? Multiple answers are possible.

1 point

- ☒ A null value indicates the absence of a value.
- ☒ A null value may mean that the actual value is unknown.
- ☒ A null value may mean that actual value does not apply to the specified row.
- ☐ A null value indicates a default value.

6. What is the difference between the primary key for a table and candidate keys for the same table?

1 point

- ☐ All candidate keys are primary keys.
- ☐ All candidate keys not accepting null values are primary keys.
- ☒ The primary key is chosen among candidate keys that do not allow null values.
- ☐ The primary key is a randomly selected candidate key.

7. Relationships in relational databases are represented

1 point

- ☐ by entity integrity constraints.
- ☐ by uniqueness constraints.
- ☒ by foreign keys and associated referential integrity constraints.
- ☐ by linking tables.

8. How is a 1-M self-referencing relationship represented in a relational database?

1 point

- ☒ a foreign key that references the primary key of the same table
- ☐ a foreign key that references the primary key of a different table

8. How is a 1-M self-referencing relationship represented in a relational database?

1 point

- ☒ a foreign key that references the primary key of the same table
- ☐ a foreign key that references the primary key of a different table
- ☐ an associative table with a combined primary key
- ☐ two foreign keys that reference each other

9. Names are required for constraints in the CREATE TABLE statement.

1 point

- ☐ True
- ☒ False

10. What keyword(s) indicates a candidate key that is not the primary key?

1 point

- ☐ PRIMARY KEY
- ☐ FOREIGN KEY
- ☐ CHECK
- ☒ UNIQUE