

# Review Test Submission: Test 1 - Database Design Concepts

User

Course 14F\_CST8215\_300 Database

Test Test 1 - Database Design Concepts

Started

Submitted Due Date

10/1/14 11:59 PM

Status Completed

Attempt 36 out of 37 points

Score

Time

Elapsed

Instructions You have 1 week to do this test. You get 1 attempt. Make sure to save the test between answers so that you do not loose any answers.

## Question 1

0 out of 1 points

What datatype does MySQL use to emulate a boolean (BOOL) data type? (1 word)

Selected Answer:  BIT

Correct Answer:

Evaluation Method	Correct Answer	Case Sen
<input checked="" type="checkbox"/> Exact Match	tinyint	

## Question 2

1 out of 1 points

What is the most common type of relation in a relational database?

Selected Answer:  C. One-to-Many

- Answers:
- A. Uncle Dad
  - B. Many-to-Many
  - C. One-to-Many
  - D. One-to-One

## Question 3

1 out of 1 points

When the database follows a well-formulated model, it behaves \_\_\_\_\_.

Selected Answer:  predictably

Correct Answer:

Evaluation Method	Correct Answer	Case Sen
<input checked="" type="checkbox"/> Exact Match	predictably	

## Question 4

2 out of 2 points

Tables tend to come in 2 varieties

- B. Regular
- C. Reference

Answers: A. Relational

- B. Regular
- C. Reference
- D. Oak

## Question 5

1 out of 1 points

True or False: Each table can have only one primary key.

Selected Answer:  True

Answers:  True  
False

## Question 6

1 out of 1 points

What in the relational model are used to represent "things" in the real world?

Selected Answer:  B. Tables

Answers: A. Indexes  
 B. Tables  
C. Fields  
D. All of the above.

## Question 7

3 out of 3 points

When designing a database, you have to make decisions regarding how best to t  
[2] and model it in a [3].

Specified Answer for: 1  real

Specified Answer for: 2  world

Specified Answer for: 3  database

**Correct Answers for: 1**

Evaluation Method	Correct Answer	Case Sen
<input checked="" type="checkbox"/> Exact Match	real	

**Correct Answers for: 2**

Evaluation Method	Correct Answer	Case Sen
<input checked="" type="checkbox"/> Exact Match	world	

**Correct Answers for: 3**

Evaluation Method	Correct Answer	Case Sen
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*Exact Match*

database

**Question 8**

1 out of 1 points

A table is said to be in Third Normal Form (3NF), if it is in 2NF and if all non-key c

\_\_\_\_\_.

Selected Answer:  independent

Correct Answer:

Evaluation Method	Correct Answer	Case Sen
<input checked="" type="checkbox"/> <i>Exact Match</i>	independant	
<input checked="" type="checkbox"/> <i>Exact Match</i>	independent	

**Question 9**

1 out of 1 points

A VARCHAR field is used to store variable length strings.

Selected Answer:  True

Answers:  True  
 False

**Question 10**

1 out of 1 points

A VARCHAR field is used to store variable length strings.

Selected Answer:  True

Answers:  True  
 False

**Question 11**

1 out of 1 points

Every database consists of one or more \_\_\_\_\_, which store the database

Selected Answer:  table

Correct Answer:

Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	tables	
<input checked="" type="checkbox"/> <i>Exact Match</i>	table	

**Question 12**

1 out of 1 points

A table is said to be in Second Normal Form (2NF), if it is in 1NF and every non-dependent on the (entire) \_\_\_\_\_ key.

Selected Answer:  primary key

Correct Answer:

Evaluation Method	Correct Answer	Case Se
	Primary	

*Exact Match*

**Question 13**

1 out of 1 points

The data in a relation model database is organized into what?

Selected Answer:  D. Tables

- Answers:
- A. Leafs
  - B. Nodes
  - C. Bins
  - D. Tables

**Question 14**

2 out of 2 points

Normalization is the process of [1] the design of a database so that it achieves 1

Specified Answer for: 1  simplifying

Specified Answer for: 2  optimum

Correct Answers for: 1		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	simplifying	

  

Correct Answers for: 2		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	optimum	

**Question 15**

2 out of 2 points

[1] [2] become essential, however, when you start to create relationships that join a database.

Specified Answer for: 1  Primary

Specified Answer for: 2  keys

Correct Answers for: 1		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	Primary	

  

Correct Answers for: 2		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	keys	

**Question 16**

3 out of 3 points

What are the common types of relations?

- Selected Answers:  A. One To One  
 B. One to Many  
 C. Many to Many
- Answers:  A. One To One  
 B. One to Many  
 C. Many to Many  
 D. Cousin Uncle Dad

## Question 17

2 out of 2 points

The basic idea behind the relational model is that a [1] consists of a series of ur  
 can be manipulated using non-procedural operations that return tables.

Specified Answer for: 1  database

Specified Answer for: 2  tables

Correct Answers for: 1		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	database	
Correct Answers for: 2		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	tables	

## Question 18

4 out of 4 points

What the the 4 types of database models? (Give 1 word answers only)

[1]

[2]

[3]

[4]

Specified Answer for: 1  flat

Specified Answer for: 2  hierarchical

Specified Answer for: 3  relational

Specified Answer for: 4  network

Correct Answers for: 1		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	Flat	
<input checked="" type="checkbox"/> <i>Exact Match</i>	Hierarchical	
<input checked="" type="checkbox"/> <i>Exact Match</i>	Network	
<input checked="" type="checkbox"/> <i>Exact Match</i>	Relational	
Correct Answers for: 2		
Evaluation Method	Correct Answer	Case Se
<input checked="" type="checkbox"/> <i>Exact Match</i>	Flat	
<input checked="" type="checkbox"/> <i>Exact Match</i>	Hierarchical	

- ✔ *Exact Match* Network
- ✔ *Exact Match* Relational

**Correct Answers for: 3**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Flat	
✔ <i>Exact Match</i>	Hierarchical	
✔ <i>Exact Match</i>	Network	
✔ <i>Exact Match</i>	Relational	

**Correct Answers for: 4**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Flat	
✔ <i>Exact Match</i>	Hierarchical	
✔ <i>Exact Match</i>	Network	
✔ <i>Exact Match</i>	Relational	



**Question 19**

7 out of 7 points

The normal forms are:

- [1] Normal Form
- [2] Normal Form
- [3] Normal Form
- [4] [5] Normal Form
- [6] Normal Form
- [7] Normal Form

- Specified Answer for: 1 ✔ first
- Specified Answer for: 2 ✔ second
- Specified Answer for: 3 ✔ third
- Specified Answer for: 4 ✔ Boyce
- Specified Answer for: 5 ✔ Codd
- Specified Answer for: 6 ✔ Fourth
- Specified Answer for: 7 ✔ Fifth

**Correct Answers for: 1**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	First	

**Correct Answers for: 2**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Second	

**Correct Answers for: 3**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Third	

**Correct Answers for: 4**

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Boyce	
<b>Correct Answers for: 5</b>		
Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Codd	
<b>Correct Answers for: 6</b>		
Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Fourth	
<b>Correct Answers for: 7</b>		
Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Fifth	

**Question 20**

1 out of 1 points

First Normal Form (1NF) says that all column values must be \_\_\_\_\_.

Selected Answer: ✔ atomic

Correct Answer:

Evaluation Method	Correct Answer	Case Se
✔ <i>Exact Match</i>	Atomic	