

Module 1 Quiz

Due Sep 24 at 11:59pm**Points** 100**Questions** 20**Time Limit** None**Allowed Attempts** 3[Take the Quiz Again](#)

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	32 minutes	90 out of 100

Score for this attempt: **90** out of 100

Submitted Sep 22 at 1:31pm

This attempt took 32 minutes.

Question 1

5 / 5 pts

Which of the following is a formal process used to separate data into related tables to avoid data redundancy?

Correct!

- ☒ normalization
- ☐ serialization
- ☐ referential integrity
- ☐ data mining

Question 2

5 / 5 pts

Denormalization typically results in all but one of the following. Which one is it?

- ☐ larger tables
- ☐ redundant data
- ☒ more complicated SQL coding
- ☐ reduced performance

Correct!

Question 3

5 / 5 pts

SELECT statements for data structures that are normalized to the fourth or fifth normal form typically require more _____ than denormalized data structures.

Correct!

joins

Correct Answers

joins
tables

Question 4

5 / 5 pts

Which of the following does NOT violate the referential integrity of a database?

- ☐ inserting a new row into a table with a foreign key that doesn't match a primary key in the related table
- ☐ updating a foreign key with a value that doesn't match a primary key in the related table

Correct!

updating a primary key in a primary key table without also updating the foreign keys for the related rows in all related tables



deleting a row in a foreign key table without deleting the related row in the related primary key table

Question 5**5 / 5 pts**

Referential integrity means that the _____ between tables are maintained correctly.

Correct!**Correct Answers**

relationships

Question 6**5 / 5 pts**

_____ speed performance when searching and joining tables.

Correct!**Correct Answers**

Indexes

Question 7**5 / 5 pts**

Unlike the MyISAM tables that came with versions of MySQL before version 5.5, the InnoDB tables that come with MySQL 5.5 and later provide for

Correct!

- ☐ composite indexes
- ☒ declarative referential integrity
- ☐ the domain-key normal form
- ☐ many-to-many relationships

Question 8**5 / 5 pts**

Which type of key consists of more than one field?

- ☐ foreign key
- ☐ alphabetized key
- ☐ compartmentalized key
- ☒ composite key

Correct!**Question 9****0 / 5 pts**

To apply the second normal form, you move columns that don't depend on the entire primary key to another table and establish a relationship between the two tables. This

You Answered

- ☒ reduces redundancy but makes maintenance more difficult

Correct Answer

- ☐ reduces redundancy and makes maintenance easier
- ☐ increases redundancy but makes maintenance easier

- ☐ increases redundancy but makes the data more consistent

Question 10**5 / 5 pts**

For a table to be in _____ normal form, every non-key column must depend only on the primary key.

Correct!

- ☒ third
- ☐ second
- ☐ first
- ☐ zero

Question 11**5 / 5 pts**

To model a database on a real-world system, you typically represent each real-world entity as a/an _____.

Correct!**Correct Answers**

table

Question 12**5 / 5 pts**

When you identify the data elements in a new database, you typically subdivide data elements into

Correct!

- ☐ the largest practical components
- ☒ the smallest practical components
- ☐ components that can be easily parsed each time you use them

Question 13**5 / 5 pts**

Which of the following ensures that relationships between tables are maintained correctly?

Correct!

- ☐ metadata
- ☒ referential integrity
- ☐ Structured Query Language (SQL)
- ☐ flux capacitor

Question 14**5 / 5 pts**

A(n) _____ provides a way for a database management system to locate information more quickly.

Correct!

- ☐ anomaly
- ☒ index
- ☐ slow computer
- ☐ large monitor

Question 15**5 / 5 pts**

If two tables have a one-to-many relationship, you may need to add a _____ column to the table on the “many” side.

Correct!**Correct Answers**

foreign key

Question 16**5 / 5 pts**

Each table in a database should have a _____ that uniquely identifies each row.

Correct!**Correct Answers**

primary key

Question 17**0 / 5 pts**

If two tables have a many-to-many relationship, you need to define a/an _____ table that relates their rows.

You Answered**Correct Answers**

linking

Question 18**5 / 5 pts**

Every row in a table should be uniquely identified by a _____ key.

Correct!

- ☒ primary
- ☐ parameterized
- ☐ confusing
- ☐ imaginary

Question 19**5 / 5 pts**

To normalize a data structure, you apply the _____ in sequence.

Correct!**Correct Answers**

normal forms

Question 20**5 / 5 pts**

Most database designers consider a database structure normalized if it's in the _____ normal form.

Correct!**Correct Answers**

third

Quiz Score: 90 out of 100