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Exam

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Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the definition of 1st Normal Form?

☐ All columns must be dependant upon the primary key only

☐ All columns must be dependant upon the whole key

☐ All primary keys must be unique

☒ There should be no repeating columns ✓

Answer

Correct: 1st Normal Form states that you should have no repeating columns.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

0/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the definition of 2nd Normal Form?

☒ All columns must be dependant upon the primary key only ✖

☐ All columns must be dependant upon the whole key

☐ All primary keys must be unique

☐ There should be no repeating columns

Answer

Incorrect:

2nd Normal Form states that all columns must be dependant upon the whole key.

Submit

You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the definition of 3rd Normal Form?

☒ All columns must be dependant upon the primary key only ✔

☐ All columns must be dependant upon the whole key

☐ All primary keys must be unique

- ☐ There should be no repeating columns

Answer

Correct:

3rd Normal Form states that all columns must be dependant upon the primary key only.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What level of normalization is typically expected when referring to a database as normalized?

- ☐ 1st Normal Form
- ☐ 2nd Normal Form
- ☒ 3rd Normal Form ✓

☐ Boyce-Codd Normal Form

☐ 4th Normal Form

☐ 5th Normal Form

Answer

Correct:

3rd Normal Form is typically expected when referring to a database as normalized.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the advantage of denormalization?

- ☒ It can speed up queries (although it typically slows down transactions) ✓
- ☐ It can speed up transactions (although it typically slows down queries)
- ☐ It makes the database smaller
- ☐ It avoids the need to normalize the database
- ☐ It facilitates cloud migration of the database

Answer

Correct: It can speed up queries (although it typically slows down transactions).

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

Why would you use the 32-bit int data type rather than the 16-bit small int?

☐ It will run faster on a 32-bit processor

☐ It will reduce storage space

☒ It will store larger numbers ✓

☐ It will store decimal places

Answer

Correct: It will store larger numbers.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the purpose of the uniqueidentifier data type?

☒ uniqueidentifier stores globally unique IDs that make duplication across multiple systems extremely unlikely ✓

☐ uniqueidentifier automatically creates a primary key on the column

☐ uniqueidentifier automatically adds a unique constraint to the column

☐ uniqueidentifier stores IDs generated from a public cloud database that guarantees uniqueness

Answer

Correct:

uniqueidentifier stores globally unique IDs that make duplication across multiple systems extremely unlikely.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

You want to convert data types using an ANSI SQL-92 standard function that returns NULL if there is an error.

Which function should you use?

☐ CAST

☐ CONVERT

☒ TRY_CAST ✓

☐ TRY_CONVERT

Answer

Correct:

TRY_CAST is an ANSI SQL-92 standard function that returns NULL if there is an error.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What purpose do schemas perform?

- ☐ Schemas define the physical storage location
- ☐ Schemas define the table relationships
- ☐ Schemas list the object owner
- ☒ Schemas provide a security boundary ✓

Answer

Correct: Schemas provide a security boundary.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Dropdown with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the minimum number of parts for an object name recommended for consistent object name resolution?

- ☐ One
- ☒ Two ✓
- ☐ Three

☐ Four**Answer**

Correct:

It is recommended that you use at least a two part name when referring to objects because there could be an object with the same name in another schema of the same database.

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What type of integrity does a primary key provide?

☐ Domain integrity☒ Entity integrity ✓☐ Referential integrity☐ Transactional integrity**Answer**

Correct: A primary key provides entity integrity.

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the difference between a zero-length string and a NULL value?

- ☐ There is no difference
- ☐ You can search for a zero-length string, but you cannot search for a NULL value
- ☐ You can search for a NULL value, but you cannot search for a zero-length string
- ☒ A zero-length string is known to be nothing, whereas a NULL value is unknown ✓

Answer

Correct: A zero-length string is known to be nothing, whereas a NULL value is unknown.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

In your database every employee must report to one single other employee as their manager. What is the best way to enforce this?

- ☐ Create a check constraint to verify that the manager exists within the same table
- ☐ Create a Managers table and create a foreign key constraint to verify that the manager exists within this table

- ☐ Create a table for each level within the company hierarchy and create foreign key constraints to verify that managers exist
- ☒ Create a foreign key constraint to verify that the manager exists within the same table ✓

Answer

Correct:

You should create a foreign key constraint to verify that the manager exists within the same table.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the main purpose of sequences?

- ☒ They create incremental numbers that can be used by any table within a database ✓
- ☐ They create incremental numbers that can be used by one table within a database
- ☐ They create globally unique identifiers for use with the uniqueidentifier data type that can be used by any table within a database
- ☐ They create globally unique identifiers for use with the uniqueidentifier data type that can be used by one table within a database
- ☐ They create incremental strings that can be used by one table within a database

- ☐ They create incremental strings that can be used by any table within a database

Answer

Correct:

Sequences create incremental numbers that can be used by any table within a database.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

How do clustered indexes store data?

- ☐ All of the data is in the root level and intermediate levels. Only the index key is in the leaf level
- ☐ All of the data is in the root level. Only the index key is in the intermediate levels and the leaf level
- ☐ All of the data is in the leaf level and intermediate levels. Only the index key is in the root level
- ☒ All of the data is in the leaf level. Only the index key is in the intermediate levels and the root level ✓

Answer

Correct:

All of the data is in the leaf level. Only the index key is in the intermediate levels and the root level.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is internal index fragmentation?

☒ Index pages are not full ✓

☐ Index pages are corrupted

☐ Index pages do not point to the correct underlying data

☐ Index pages do not point to the correct leaf-level page

Answer

Correct:

Internal fragmentation occurs when index pages are not full. There is almost always some fragmentation.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What are the effects of indexing computed columns?

- ☐ It is not possible to index computed columns
- ☐ Performance is improved when updating source values of the computed column
- ☒ Performance is impaired when updating source values of the computed column ✓
- ☐ Indexed value need to be updated manually

Answer

Correct:

Performance is impaired when updating source values of the computed column, but values are updated automatically.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

0/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the purpose of composite indexes?

- ☐ They are smaller
- ☐ They are faster
- ☒ They might answer a query without going to underlying data and might be of use to multiple queries
- ☐ They combine several indexes to group permissions and storage

Answer

Incorrect:

Composite indexes might answer a query without going to underlying data and might be of use to multiple queries.

Submit

You have used 1 of 1 attempt

✘ Incorrect (0/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What is the purpose of index statistics?

- ☐ They allow you to see how well an index is performing
- ☐ They show all of the indexes in a database
- ☒ They allow the optimizer to decide which indexes to use in a query ✔
- ☐ They allow you to tune underlying data to improve query performance

Answer

Correct: Index statistics allow the optimizer to decide which indexes to use in a query.

Submit

You have used 1 of 1 attempt

✔ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

When would you allow index statistics to be automatically created and updated?

- ☐ Index statistics should only be automatically created and updated in very small databases.}}
- ☐ Index statistics should only be automatically created and updated in very large databases.}}
- ☒ Index statistics should be automatically created and updated in almost all systems.}} ✓
- ☐ Index statistics should only be automatically created and updated in Azure SQL Databases.}}

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Checkboxes

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

What are some of the advantages of views?

- ☒ They can simplify the complex underlying relationship between tables
- ☐ They make your Transact-SQL run faster
- ☐ They reduce data storage

☒ They can filter by row or column



Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

Which of the following is true of view security?

☐ To give someone access to a view you must give them access to the data in the underlying table

☒ You can give someone access to a view without giving them access to the data in the underlying table ✓

☐ Views and tables must be in the same schema

☐ Views and tables must not be in the same schema

Answer

Correct:

You can give someone access to a view without giving them access to the data in the underlying table.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

Why might you create a view that has the same data as an underlying table?

- ☐ You would never create a view that has the same data as an underlying table
- ☐ Accessing a view is always faster than directly accessing a table
- ☒ If the structure of the tables is changed in the future, the structure of the view can be maintained and applications that access it will not need to be modified ✓
- ☐ You must create at least one view for every table

Answer

Correct:

If the structure of the tables is changed in the future, the structure of the view can be maintained and applications that access it will not need to be modified.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

How can a view contain data?

- ☐ A view can never contain data
- ☒ A view can have a clustered index that contains data ✓

☐ A view can be created using WITH PERSISTENCE to store data

☐ A view always contains data

Answer

Correct: A view can have a clustered index that contains data.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Multiple Choice with Hints and Feedback

1/1 point (graded)

You need to complete the following question to assess your completion of the course.

If a user has the permission to select from a view, but no permission to select from a table, when can they access data using the view?

☐ They cannot access data from the table

☐ They can access data in the view if they are in the VIEW_READERS system group

☐ They can always access the data using the view

☒ They can access data in the view if the view and the table have an unbroken ownership chain ✓

Answer

Correct:

They can access data in the view if the view and the table have an unbroken ownership chain.

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

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