

Course > Final E... > Exam > Exam

#### Exam

# **Multiple Choice**

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

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

1/1 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

O All prir	nary keys must be unique
O There	should be no repeating columns
<b>Answer</b> Correct:	
	Form states that all columns must be dependant upon the whole key.
Submit	You have used 1 of 1 attempt
<b>✓</b> Correc	et (1/1 point)
Multinla	Choice
Multiple	
/1 point (gra	ded)
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✓ Correct (1/1 point)

# **Multiple Choice**

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
<ul><li>3rd Normal Form</li><li>✓</li></ul>
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**

1/1 point (graded)

You need to complete the following question to assess your completion of the course. What is the advantage of denormalization?

lt can s	peed up transactions (although it typically slows down queries)
lt make	s the database smaller
lt avoid	s the need to normalize the database
lt facilit	ates cloud migration of the database
	in speed up queries (although it typically slows down transactions).
Submit	You have used 1 of 1 attempt
Correct	(1/1 point)
	71a :
•	
point (grace under the control of th	
eu need to hy would y	ed) complete the following question to assess your completion of the course
eu need to hy would y	ed) complete the following question to assess your completion of the course ou use the 32-bit int data type rather than the 16-bit small int?
u need to ny would y  It will re	ed) complete the following question to assess your completion of the course ou use the 32-bit int data type rather than the 16-bit small int? un faster on a 32-bit processor
It will re  It will re	ed) complete the following question to assess your completion of the course ou use the 32-bit int data type rather than the 16-bit small int? un faster on a 32-bit processor educe storage space

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

#### Multiple Choice

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?

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



- uniqueidentifier automatically adds a unique costraint 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

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 a function that returns NULL if there is an error. Which function should you use?

○ CAST
○ TRY_FORMAT
<ul><li>TRY_CAST</li><li>✓</li></ul>
○ FORMAT
Answer Correct: TRY_CAST is a function that returns NULL if there is an error.  Submit You have used 1 of 1 attempt
✓ Correct (1/1 point)
Multiple Choice  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
<ul> <li>Schemas provide a security boundary</li> </ul>
_
<b>Answer</b> Correct: Schemas provide a security boundary.

✓ Correct (1/1 point)

#### **Multiple Choice**

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			
O Four			

#### **Answer**

Correct:

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

You have used 1 of 1 attempt Submit

✓ Correct (1/1 point)

### Multiple Choice

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?

<ul> <li>Domain integrity</li> </ul>			
--------------------------------------	--	--	--

	ntegrity
Referei	ntial integrity
O Transa	ctional integrity
<b>Answer</b> Correct: A p	rimary key provides entity integrity.
Submit	You have used 1 of 1 attempt
✓ Correct	t (1/1 point)
What is the o	complete the following question to assess your completion of the course. difference between a zero-length string and a NULL value?
O You ca	
O You ca	n search for a zero-length string, but you cannot search for a NULL value
100 00	n search for a zero-length string, but you cannot search for a NULL value
● A zero- ✓  Answer	n search for a NULL value, but you cannot search for a zero-length string

### Multiple Choice

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
<ul> <li>Create a Managers table and create a foreign key constraint to verify that the manager exists within this table</li> </ul>
<ul> <li>Create a table for each level within the company hierarchy and create foreign key constraints to verify that managers exist</li> </ul>
<ul> <li>Create a foreign key constraint to verify that the manager exists within the same</li> </ul>

#### **Answer**

table

Correct:

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

Submit

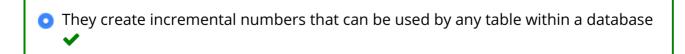
You have used 1 of 1 attempt

✓ Correct (1/1 point)

# Multiple Choice

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 one table within a database

<ul> <li>They create globally unique identifiers for use with the uniqueidentifier data type that can be used by any table within a database</li> </ul>
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
1/1 point (graded) You need to complete the following question to assess your completion of the course. How do clustered indexes store data?
<ul> <li>All of the data is in the root level and intermediate levels. Only the index key is in the leaf level</li> </ul>
<ul> <li>All of the data is in the root level. Only the index key is in the intermediate levels and the leaf level</li> </ul>
<ul> <li>All of the data is in the leaf level and intermediate levels. Only the index key is in the root level</li> </ul>
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

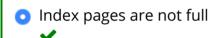
You have used 1 of 1 attempt

✓ Correct (1/1 point)

### Multiple Choice

1/1 point (graded)

You need to complete the following question to assess your completion of the course. What is internal index fragmentation?



$\bigcirc$	Index	pages	are	corru	pted
\ /	II I G C A	Pubco	G, C	cond	$\rho$ $c$ $c$

- 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**

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
O 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
1/1 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
<ul> <li>They might answer a query without going to underlying data and might be of use to multiple queries</li> </ul>
They combine several indexes to group permissions and storage

#### **Answer**

Correct:

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

✓ Correct (1/1 point)

# **Multiple Choice**

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

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.}}

	ex statistics should only be automatically created and updated in very large abases.}}
	ex statistics should be automatically created and updated in almost all rems.}}
	ex statistics should only be automatically created and updated in Azure SQL abases.}}
Submi	t You have used 1 of 1 attempt
✓ Cor	rect (1/1 point)
Checkb	
/1 point (§ 'ou need	graded) I to complete the following question to assess your completion of the course. the following should apply to transactions?
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Divisible
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 need to avoid blocking or being blocked. Which transaction isolation level should you use?
<ul><li>■ READ UNCOMMITTED</li><li>✓</li></ul>
O READ COMMITTED
O REPEATABLE READ
○ SERIALIZABLE
Answer Correct: You should use READ UNCOMMITTED
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 need to limit blocking or being blocked, but only see persistent data. Which transaction isolation level should you use?

READ UNCOMMITTED
○ READ COMMITTED ✓
O REPEATABLE READ
○ SERIALIZABLE
Answer Correct: You should use READ COMMITTED  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 ensure that, if you read the values at the start and the end of the transaction, the values will be the same.   Which transaction isolation level should you use?
O READ UNCOMMITTED
O READ COMMITTED
○ REPEATABLE READ  ✓
○ SERIALIZABLE

#### **Answer**

Correct: You should use READ UNCOMMITTED

You have used 1 of 1 attempt Submit

✓ 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 need to prevent new records appearing between the start and end of your transaction. | | Which transaction isolation level should you use?

READ UNCOMMITTED	
READ COMMITTED	
REPEATABLE READ	



#### **Answer**

Correct: You should use SERIALIZABLE

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. With XACT\_ABORT off, would a foreign key error cause the transaction to roll back?

Submit	You have used 1 of 1 attempt
<b>✓</b> Correc	ct (1/1 point)
/lultiple	Choice with Hints and Feedback
/1 point (gra	ded)
ou need to Vhat is a de	complete the following question to assess your completion of the course.
viiat is a ut	eaulock:
	saction holds a block for so long that another transaction times out
○ A trans	
○ A trans	saction holds a block for so long that another transaction times out
<ul><li>A trans</li><li>A quer</li><li>Two tr</li></ul>	saction holds a block for so long that another transaction times out ry contains logic that means it cannot complete
A trans A quer Two tr ✓ Two di time	saction holds a block for so long that another transaction times out ry contains logic that means it cannot complete ransactions are both blocking each other

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