edX

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Exam

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Multiple Choice

1/1 point (graded)
In a SQL Server database, what is the name for a group of eight pages?

- ⦿ An extent ✔

- ○ A file

- ○ A filegroup

- ○ A database

- ○ A schema

Submit

Multiple Choice

1/1 point (graded)

What is the name for a logical grouping of data files?

- ○ An extent

- ○ A page

- ◉ A filegroup ✔

- ○ A database

- ○ A schema

Submit

Multiple Choice

1/1 point (graded)
What can you query to find information about page allocations?

- ○ The transaction log

- ◉ sys.dm_db_database_page_allocations ✔

- ○ Event viewer

- ○ sys.file_page_allocations

Submit

Multiple Choice

1/1 point (graded)
What is RAID 0?

- ● Striping ✔

- ○ Mirroring

- ○ Striped Mirror

- ○ Mirrored Stripe

- ○ Striping with Parity

Submit

Multiple Choice

1/1 point (graded)
What is RAID 1?

- ○ Striping

- ● Mirroring ✔

- ○ Striped Mirror

- ○ Mirrored Stripe

- ○ Striping with Parity

Submit

Multiple Choice

1/1 point (graded)
What is RAID 5?

- ○ Striping

- ○ Mirroring

- ○ Striped Mirror

- ○ Mirrored Stripe

- ◉ Striping with Parity ✔

Submit

Multiple Choice

1/1 point (graded)
What is Logical IO?

- ◉ Pages read from cache ✔

- ○ Pages read from disk

- ○ Pages read from the cloud

- ○ Pages read from another database

Submit

Multiple Choice

1/1 point (graded)
You have a SELECT query which includes joins, a WHERE clause, and a GROUP BY.

Does the SELECT clause get processed at the beginning, middle, or end of execution?

- ○ Beginning

- ○ Middle

- ◉ End ✔

Submit

Multiple Choice

1/1 point (graded)
You have a system which goes through cycles of repeatedly growing and shrinking.

You have disk capacity for the maximum size that the database reaches.

What strategy is likely to give you the best performance?

- ○ Set the intial file size to the minimum size that the database reaches. Have Autogrow turned on and Autoshrink turned off.

- ○ Set the intial file size to the minimum size that the database reaches. Have Autogrow turned off and Autoshrink turned on.

○   Set the intial file size to the minimum size that the database reaches. Have
     Autogrow turned on and Autoshrink turned on.

○   Set the intial file size to the maximum size that the database reaches. Have
     Autoshrink turned on.

◉   Set the intial file size to the maximum size that the database reaches. Have
     Autoshrink turned off. ✔

Submit

Multiple Choice

1/1 point (graded)
What is the purpose of sys.dm_exec_query_transformation_stats?

○   It transforms your query into a more efficient syntax.

○   It provides information about extract, transform, and load (ETL) activities.

○   It assesses physival and logical IO.

◉   It provides information about the query optimizer. ✔

Submit

Multiple Choice

1/1 point (graded)

You want to view live query statistics. What tool should you use?

- ◉ SQL Server Management Studio ✔
- ○ SHOWPLAN_XML
- ○ SHOWPLAN_TEXT
- ○ SHOWPLAN_LIVE

Submit

Multiple Choice

1/1 point (graded)
In a query execution plan, what does a scan do?

- ○ It uses an index to find specific records
- ◉ It reads all rows in the table ✔
- ○ It verifies that table names are correct
- ○ It verifies that the SQL syntax is correct

Submit

Multiple Choice

1/1 point (graded)
Which join type takes the output of the first table and searches every single row of the

second table to find a match?

○ Hash Match

○ Merge Join

◉ Nested Loop ✔

○ Table Scan

Submit

Multiple Choice

1/1 point (graded)
What is the difference between Auto-Parameterization and Simple Paramaterization?

○ Auto-Parameterization is automatic, but and Simple Paramaterization is manual

○ Simple Parameterizaion uses less resources

○ Auto-Parameterizaion is faster

◉ There is no difference ✔

Submit

Multiple Choice

1/1 point (graded)

You have SQL Server databases stored locally and Azure SQL Databases in the cloud.

Which databases support Query Store?

○ None of them

○ Local databases only

○ Azure SQL Databases only

◉ Both local and Azure SQL Databases ✔

Submit

Multiple Choice

1/1 point (graded)
What is a covering index?

○ An index that contains all other indexes on a table

○ An index that has all of the columns in a SELECT clause and no other columns

◉ An index that has all of the columns referenced by any clause of a query ✔

○ An index that has all of the columns of one table

Submit

Multiple Choice

1/1 point (graded)
What is the purpose of PAD_INDEX?

○ It pre-loads the index with data

● It applies the fill factor to every level of the index ✔

○ It ensures that the index remains in memory

○ It ensures that the index does not remain in memory

Submit

Multiple Choice

1/1 point (graded)
What happens to the query cache when you run SP_UPDATESTATS on a table that it references?

○ Nothing

● It is no longer valid ✔

○ It typically runs faster

○ It contains new statistics

Submit

Multiple Choice

1/1 point (graded)

What is the purpose of a query hint?

- ◉ It forces SQL Server to run queries in a particular way ✔

- ○ It ensure that the optimizer considers are particular plan

- ○ It updates statistics relevant to a partcular query

- ○ It clears the query cache

Submit

Multiple Choice

0/1 point (graded)

What is the purpose of the Database Engine Tuning Adviser?

- ◉ It updates table designs ✘

- ○ It updates query syntax

- ○ It makes recommendations about query syntax

- ○ It makes recommendations about indexes and statistics

Submit

✘   Incorrect (0/1 point)

Multiple Choice

1/1 point (graded)

What is lock escalation?

- ◉ The process of converting many fine-grained locks to a single coarser grained lock ✔
- ○ The process of increasing the number of locks
- ○ The process of converting a Shared lock to an Exclusive lock
- ○ The process of turning optimistic locks into pessimistic locks

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)

How do you create filtered statistics?

- ○ Create statistics on a view.
- ◉ Create statistics with a WHERE clause. ✔
- ○ Create statitics with a HAVING clause.
- ○ Staistics cannot be filtered.

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
When using Stretch Database, what changes do you need to make to applications that access the data?

◉ None. ✔

○ Create views that include the local and cloud data.

○ Specify StretchDB in the connection string.

○ Create a connection to both the local and cloud database.

Submit

✔ Correct (1/1 point)

Checkboxes

1/1 point (graded)
Which of the following are limitations of Stretch Database? Select all that apply.

☑ UNIQUE constraints not properly enforced.

☑ Cannot create DEFAULT constraints.

☐ Database cannot be above 1GB in size.

☑ Cannot enable Stretch Database on a table with an XML index.

☐ Cannot enable Stretch Database on a column with a varchar data type.

✔

Submit

✔ Correct (1/1 point)

Multiple Choice

1/1 point (graded)
What is the most straightforward method to temporarily stop Stretch Database from moving data to the cloud?

○ DISABLE Stretch Database.

◉ PAUSE Stretch Database. ✔

○ Remove Stretch Database.

○ Change the filter in Stretch Database.

Submit

✔ Correct (1/1 point)

Checkboxes

1/1 point (graded)
With Always Encrypted data, when is the data encrypted? Select all that apply.

☑ When it is stored locally

☑ When it is stored in Azure

☑ When it is in transit

☐ When it is accessed by client software

✔

Submit

✔ Correct (1/1 point)

Checkboxes

1/1 point (graded)
What tools can you use to configure Always Encrypted? Select all that apply.

☑ SQL Server Management Studio

☐ Transact-SQL

☑ PowerShell

☐ Remote Server Administration Tools

✔

Submit

✔ Correct (1/1 point)

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