



Module 5 quiz

Quiz, 15 questions

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1.

The primary reason for improved query performance in the MOLAP storage architecture as compared to the ROLAP storage architecture is because

- ☐ ROLAP lacks the ability to perform query rewriting of materialized views.
 - ☐ ROLAP lacks optimization for cube operators.
 - ☒ MOLAP executes queries directly against stored data cubes.
 - ☐ MOLAP supports storage of materialized views and data cubes.
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2.

Select reasons for larger storage capacity in ROLAP than MOLAP storage architectures.

- ☐ Sparsity typically decreases as data cube size increases.
 - ☒ Data warehouse tables and materialized views do not store empty cells.
 - ☐ Data compression technology cannot cope with the large amounts of sparsity in data cubes with many dimensions.
 - ☒ As data cube size increases, sparsity (amount of empty cells) grows very large so data cube storage is not practical for data cubes with many dimensions.
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3.

Bitmap join indexes are particularly useful in query dominant environments such as data warehouses.

- ☒ True
 - ☐ False
-

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4.

In a bitmap join index on a non-join column (such as CustState), the bitmap

in a bitmap join index on a non-join column (such as CustState), the bitmap

- ☒ identifies rows of a related table that contains the indexed column.
 - ☐ identifies rows of an unrelated table that contains the indexed column.
 - ☐ identifies rows of the table containing the indexed column.
 - ☐ identifies rows of a related table that does not contain the indexed column.
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5.

Identify advantages of data warehouse appliances among the following choices.

- ☐ High fixed costs
 - ☒ Improved scalability
 - ☒ Increased performance
 - ☐ High migration costs especially for query migration.
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6.

Identify major features of Hadoop 2.

- ☐ Scalable parallel processing with load balancing and fault tolerance
 - ☒ Open source controlled by the Apache Foundation
 - ☐ Limited to one task type and data format
 - ☒ Can use commodity hardware
-

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7.

Support for multiple task types is a major innovation from Hadoop 1 to Hadoop 2.

- ☒ True
 - ☐ False
-

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o.

Identify major features of the MapReduce framework.

- ☐ Provides both batch and on demand processing
 - ☒ Reduce used to aggregate, filter, or transform mapped input
 - ☒ Uses a data format with <key, value> records
 - ☒ Map used to extract important parts of input
-

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9.

A columnstore index provides

- ☒ Optional sorting of column values
 - ☒ Compression of duplicate column values
 - ☐ Bitmaps
 - ☒ Columns stored in physical records instead of rows
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10.

What kind of queries does a columnstore index support?

- ☐ Star join queries with highly restrictive conditions on a combination of dimension columns
 - ☐ Grouping queries summarizing a large number of columns from a medium size fact table.
 - ☒ Grouping queries summarizing a small number of columns from a large fact table
 - ☐ Grouping queries with highly selective conditions on a combination of dimension columns.
-

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11.

The Microsoft Risk Gap Analysis Process

- ☒ begins with the step to determine context
- ☒ uses the Risk Gap Matrix
- ☐ does not use cost benefit analysis to mitigate risks
- ☒ uses a threat modeling tool to help identify possible threats

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12.

The purpose(s) of the Microsoft DGPC Capability Maturity Model are to

- ☐ Determine current status
 - ☐ Determine future targets
 - ☐ Create plans to get from current status to future target
 - ☒ All of the above
-

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13.

A bitmap join index can be defined on a join column or a non-join column.

- ☒ True
 - ☐ False
-

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14.

A data warehouse appliance includes:

- ☒ DBMS
 - ☒ Server
 - ☒ Operating system
 - ☒ Storage
-

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15.

Which of the following choices shows the capacity ranking from high to low:

- ☐ MOLAP, HOLAP, ROLAP
- ☐ ROLAP, MOLAP, HOLAP
- ☒ MOLAP, ROLAP, HOLAP
- ☐ ROLAP, HOLAP, MOLAP

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