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**Vendor:** HP

**Exam Code:** HP2-N36

**Exam Name:** HP Vertica Solutions [2012]

**Version:** Demo

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**QUESTION NO: 1**

What does Time Series do?

- A. enables identification of a sequence of defined events
- B. evaluates the values of a given set of variables and groups those values into a window
- C. increments a counter based on whether an expression evaluates as true
- D. enables analysis of two series of data when their measurement intervals do not align precisely

**Answer: B**

**QUESTION NO: 2**

During Vertica installation, how do you install onto multiple nodes of a cluster?

- A. You must install the application individually on each node.
- B. Run the installation script from the Console machine once per node.
- C. Pass the IP address or node names as part of the -s argument, and it will install the application on each node.
- D. Pass the IP addresses or node names to spread, and it will install the application on each node.

**Answer: C**

Reference:[https://my.vertica.com/wbt/installing\\_vertica/index.htm](https://my.vertica.com/wbt/installing_vertica/index.htm)(start the video and go the topic that says multiple node installation)

**QUESTION NO: 3**

What are the benefits of ordering data in projection design? (Select two.)

- A. It enables optimum encoding.
- B. It enables partitioning of data.
- C. It enables efficient sharing of data between similarly-ordered projections.
- D. It enables efficient application of query predicates.
- E. It enables segmentation of data.

**Answer: D,E**

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**QUESTION NO: 4**

What are characteristics of projections in Vertica? (Select three.)

- A. A projection can contain data from one or more source tables.
- B. A projection can contain data from only one source table.
- C. A projection can contain a subset of rows from the source table.
- D. Each projection contains all rows from the source table.
- E. A projection can contain a subset of columns from the source table.
- F. Each projection contains all columns from the source table.

**Answer: A,D,F**

Reference:<http://184.106.12.19/2011/09/02/the-power-of-projections-part-2/>

**QUESTION NO: 5**

What is the purpose of Vertica's transaction model? (Select three.)

- A. Transactions mean that undo logs are not needed.
- B. Transactions are used to maintain partitions.
- C. Transactions are only written upon an explicit commit being issued.
- D. Transactions are used for data recovery.
- E. Transactions are used to delete data.
- F. Transactions are used to maintain segmentation.

**Answer: A,C**

**QUESTION NO: 6**

What distinguishes table partitioning from projection segmentation?

- A. If table data is partitioned, associated projections can only be replicated.
- B. If table data is partitioned, the table cannot participate in a prejoin projection.
- C. If table data is partitioned, associated projections cannot be segmented.
- D. If table data is partitioned, associated projections can also be segmented.

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**Answer: D**

**QUESTION NO: 7**

What is a buddy projection?

- A.** a projection that contains the same columns and has the same segmentation as the original projection, using different node ordering, stored in different files on the same node as the original
- B.** a projection that contains a subset of rows from the original projection, stored in different files on a neighboring node of the original
- C.** a projection that contains the same columns and has the same segmentation as the original projection, using different node ordering, stored in different files on a different node than the original
- D.** a projection that contains a subset of rows from the original projection, stored in different files on the same node as the original

**Answer: A**

Reference:<http://vertica-forums.com/viewtopic.php?f=7&t=441>

**QUESTION NO: 8**

What are key features of Vertica? (Select three.)

- A.** uses fully custom SQL syntax
- B.** columnar data store
- C.** stored data that is encoded and compressed
- D.** native high availability
- E.** runs on a Windows platform
- F.** data caching for fast retrieval

**Answer: B,C,D**

Reference:<http://www.vertica.com/the-analytics-platform/>

**QUESTION NO: 9**

Which statements are true of a projection? (Select two.)

- 
- A. They can contain a comparison predicate.
  - B. They can contain a join condition.
  - C. They can only be created prior to loading data.
  - D. They can be created at any time, either before or after data is loaded into a table.
  - E. They can contain aggregate functions.

**Answer: B,C**

**QUESTION NO: 10**

What are the differences between compression and encoding? (Select two.)

- A. Compressed data can be queried prior to materializing the data.
- B. Queries can be processed against compressed data, speeding query response time.
- C. Both reduce the storage footprint.
- D. Queries can be processed against encoded data, speeding query response time.
- E. Encoding reduces only the storage footprint.

**Answer: A,D**

**QUESTION NO: 11**

What does the acronym RLE stand for?

- A. run language encoding
- B. random length encoding
- C. random language encoding
- D. run length encoding

**Answer: D**

Reference:<http://www.vertica.com/2010/05/26/why-verticas-compression-is-better/>(paragraph right under illustration 1)

**QUESTION NO: 12**

How does Vertica implement high availability in a clustered environment?

- 
- A. full replicas of fact tables and segmented dimension tables
  - B. full replicas of all data on all nodes
  - C. built-in redundancy of data
  - D. continuous mirroring of data

**Answer: A**

**QUESTION NO: 13**

Which notation must be added to the COPY command to cause data to be placed directly in ROS?

- A. DISC
- B. DIRECT
- C. NOWOS
- D. ROS

**Answer: B**

Reference:<http://www.vertica.com/wp-content/uploads/2011/01/FastDataLoadingInVertica.pdf>(page 4)

**QUESTION NO: 14**

What are the disadvantages of using delete vectors to identify records marked for deletion?  
(Select two.)

- A. Delete vectors are stored in a different location, minimizing storage impact.
- B. Delete vectors rewrites files, causing additional overhead.
- C. Delete vectors must be recognized during the query process to remove records marked for deletion from the result set, slowing down the processing of a query.
- D. Delete vectors do not instantly reclaim space used by deleted records.
- E. Delete vectors must be maintained forever.

**Answer: C,D**

**QUESTION NO: 15**

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What is the difference between dropping a partition and deleting records?

- A. Dropping a partition creates delete vectors; deleting records does not create delete vectors.
- B. Dropping a partition can be rolled back; deleting records cannot be rolled back.
- C. Dropping a partition creates new files; deleting records does not create new files.
- D. Dropping a partition recovers space immediately; deleting records does not recover space immediately.

**Answer: A**

**QUESTION NO: 16**

What are the actions of the mergeout task? (Select three.)

- A. Mergeout rewrites all ROS containers.
- B. Mergeout writes data to memory.
- C. Mergeout consolidates containers on disk.
- D. Mergeout places data into all defined projections on the source table.
- E. Mergeout purges deleted data already on disk.
- F. Mergeout moves data from memory to disk.

**Answer: C,D,E**

Reference:<https://my.vertica.com/docs/6.1.x/HTML/index.htm#2624.htm#o14826>

**QUESTION NO: 17**

What are the benefits of loading data into WOS?

- A. The data is cached in memory for quick access.
- B. The data is able to be queried as soon as it is loaded.
- C. The data is broken out into projections.
- D. The data is sorted.

**Answer: A**

Reference:<https://my.vertica.com/docs/6.1.x/HTML/index.htm#10825.htm#o20112>

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**QUESTION NO: 18**

What are the benefits of using delete vectors to identify records marked for deletion? (Select two.)

- A. Delete vectors move deleted records to files in a new location.
- B. Delete vectors enable historical queries of data marked for deletion until the data has been purged.
- C. Delete vectors rewrite the original files, immediately purging them off the system.
- D. Delete vectors are stored in a different location, minimizing storage impact.
- E. Delete vectors are a fast method for marking records for deletion.

**Answer: B,E**

Reference:<https://my.vertica.com/docs/6.1.x/HTML/index.htm#14234.htm>

**QUESTION NO: 19**

What are the actions of the moveout task? (Select two.)

- A. Moveout consolidates containers already on disk.
- B. Moveout places data into all defined projections on the source table.
- C. Moveout rewrites all ROS containers.
- D. Moveout moves data from memory to disk.
- E. Moveout writes data to memory.
- F. Moveout purges deleted data already on disk.

**Answer: C,D**

Reference:<https://my.vertica.com/docs/6.1.x/HTML/index.htm#2624.htm#o14825>

**QUESTION NO: 20**

What is the WOS?

- A. a redundant copy of commonly read data, cached in memory
- B. a column-store, disk-based method for storing data in Vertica
- C. a redundant write-only location used to improve node uptime
- D. a row-store, memory-based method for adding data to Vertica

**Answer: D**



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**QUESTION NO: 21**

Which statement is true about the data directory location across the nodes of a cluster?

- A. It must be in the same location on each node.
- B. It can be stored in different formats on different nodes.
- C. It can be in different locations on each node.
- D. It must be in a single location, accessible to all nodes in the cluster.

**Answer: D**

**QUESTION NO: 22**

Which task consolidates data containers, sorting, compressing, and purging data as needed?

- A. mergesync
- B. movesync
- C. mergeout
- D. moveout

**Answer: C**

Reference:<https://my.vertica.com/docs/6.1.x/HTML/index.htm#2624.htm#o14826>

**QUESTION NO: 23**

What are the benefits of loading data directly into ROS? (Select three.)

- A. The data is written to all projections on the source tables.
- B. The data is sorted.
- C. The data is unsorted.
- D. The data is stored in only the super projection, which then populates other projections on the table in the background.
- E. The data is in column format. The data is written in row format.

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**Answer: A,B,D**

**QUESTION NO: 24**

How are records marked for deletion?

- A. Vertica removes the file that stores the deleted data.
- B. Vertica rewrites the files that contained the deleted records, ignoring records to be deleted.
- C. Vertica deletes the records from the original source files.
- D. Vertica creates a delete vector, identifying records to be deleted.

**Answer: D**

**QUESTION NO: 25**

What is the ROS?

- A. a redundant copy of commonly read data, cached in memory
- B. a column-store, disk-based method for storing data in Vertica
- C. a row-store, memory-based method for adding data to Vertica
- D. a redundant write-only location used to improve node uptime

**Answer: C**

**QUESTION NO: 26**

How does mergeout purge data marked for deletion?

- A. It creates delete vectors, identifying files that can be removed from the system.
- B. It updates files by removing records marked with delete vectors.
- C. It writes undeleted records to files in a new location, then deletes all source files.
- D. It writes deleted records to files in a new location, then deletes all source files.

**Answer: A**

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