Denodo

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DENODO PLATFORM 8.0 CERTIFIED ARCHITECT ASSOCIATE EXAM

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Question: 1

Interface views enable :
A) Contract-first development
B) An HTML-based user interface for a Denodo view
C) Importing of data models defined in external modeling tools
D) An abstraction layer to isolate changes in the Denodo model
E) Operational metadata for data lineage graphs
Which are true :

A. A and C
B. A and D
C. B and C
D. A, C and D
E. All are true

Answer: B

Explanation:
Contract-first development = top down development. Interface view is a set of metadata (fields, data types) or data model not connected to a physical data source. This data model is imported from external modeling tools. We can later add an implementation view to it to connect it to an underliyng data source.
The bottom up development is when we connect to the data source and we created base views and from the base base view we create derived view to later expose to Consuming applications.
The interface view decouple the consumer of the view with the implementation of the view
The Data virtualization platform create corresponding interface view when importing data models using Denodo Model Bridge.
Denodo Model Bridge transforms data models into VDP models. It extracts the entities, attributes and relationships from serialized data models and creates the equivalent interface views and associations in VDP.

Question: 2

The choice of authentification mechanism for southbound authentification (Denodo platform to data source) is determined by …

A. The authentication used by the client, connecting to Denodo, must also be used with the data sources.
B. The authentification mechanism supported by most of the data sources
C. The location of the data source relative to the Denodo platform (e.g. in the cloud vs on-premise)
D. Whether there are firewalls between the Denodo platform and the data sources.

E. The authentification mechanism supported by the data source being connected to

Answer: D

Explanation:
Southbound authentification mean connexion of The data virtualization platform to the underlying data source. The Data virtualization connect to the data sources by using the authentification supported by the data source. e.g : Oracle support username and password connexion, Hadoop support connexion using Kerberos.

Question: 3

The Denodo Cache …
A) Cannot be changed from the default Apache derby database
B) Must be located remotely from the Denodo instance or cluster for DR purposes
C) Can be optimized (eg. Using bulk load APIs for caching large data sets.) If it is one of the configuration drop down list.
D) Can be an in-memory database option - or database option - For better perfomance
E) Must be an MPP cluster, such as Hadoop
Which are true :

A. All of them
B. C and D
C. A and C
D. B and E
E. B,C,E

Answer: B

Explanation:
We can used external RDMS as cache database but it is not a must. We can also use an in memory cache database (Apache derby). Existing datasources can be used as the cached database also.
https://community.denodo.com/docs/html/browse/6.0/vdp/administration/cache_module/cache_module

Question: 4

Following on from the above question. You want to expand their Denodo deployment beyond a single instance. The data source on AWS and Azure have grown significantly and there are now a large number of data sources and a large volume of data on both cloud platforms. In addition, there is still a large number of 'legacy' system in the data center ('on-premise'). You need to provide enterprise-wide system across data from all of the data sources and, in future, some SaaS applications (e.g. Salesforcen ServiceNow, etc,). What is your suggested deployment architecture for the Denodo platform ?

A. A Denodo platform instance (or cluster) should be deployed in each location (on-premise, AWS, and Azure). This would make Denodo's mufti-location architecture to delagate the processing of queries to the instance nearest to the target data source
B. Denodo platform should be deployed on-premises (in the data center) as it is easier to connect from the Data center to the sources on AWS and Azure.
C. It doesn't matter where you deploy the Denodo Platform as there will always be data sources in other locations.
D. It depends on which deployment location (on-premises, AWS, or Azure) is the cheapest.
E. Use Azure Data Factory to move the Data from the AWS and on-premise data sources to the Azure Data Lake and deploy Denodo on Azure to access the data from the Data Lake.

Answer: A

Explanation:
The bulk of their data is on the cloud (AWS and Azure) as data source is growing significantly to avoid latency issue we should have Denodo instance deploy on each cloud environment. Is only option A that say the Denodo instance should be deployed on the two cloud environment.

Question: 5

The Denodo platform supports two-form factor (2FF) authentication for published web services ?

A. By integrating with an external identity provider (e.g. Okta, pingFederate, Azure AD) using SAML or OAuth
B. Using kerberos
C. Via SAML (directly with third-party identity provider)
D. With usemame and password
E. Using RACF

Answer: A

Question: 6

Which of the Following statement about summary Views are correct ?
A) Summary Views are implemented as materialized views containing aggregated data
B) Summary views are always materialized in the cache database
C) Summary views must be queried directly by a user
D) The Denodo query optimizer will automatically subtitute a Summary View in place of the origin source to improve performance if that is the most optimal query plan.
E) Summary views can only be used with data from a data lake.
Which are true :

A. B and E
B. A and C
C. All of them

D. A and D
E. B, C and E

Answer: C

Explanation:
With Virtual DataPort, a user can store the result of a query on a table of an external database with the purpose of providing smart query acceleration when executing other queries. This feature is called summaries view.
Definition of a materialized view : A materialized view is a pre-computed data set derived from a query specification (the SELECT in the view definition) and stored for later use. Because the data is pre-computed, querying a materialized view is faster than executing a query against the base table of the view.
Summary views are used during query optimization when a querry get executed in the data virtulization platform.

Question: 7

The lowest level (most fine-grained) access control within the Denodo platform is :

A. Row level filtering
B. At the virtual Database (VDB) level
C. Masking or encrypting the data values at the 'cell' level
D. At the virtual view level
E. Column level restrictions

Answer: C

Question: 8

You need to migrate an on-premise Teradata data warehouse to SQL Data Warehouse (Azure Synapse) on the Azure Cloud. How would you use Data Virtualization within this project ?

A. You don't need Data Virtualization as it plays no röle in data migration. The client can just use the Azure Data Factory to load the data into SQL Data Warehouse
B. The Data Virtualization layer can be used as a data access layer on top of the Teradata to decouple them from the underlying data warehouse. Users needing data from SQL Data warehouse will be running on the cloud, so they won't need to use the Data Virtualization layer.
C. You can use Data virtualization to cache views of Teradata tables and then materialized those views into SQL Data warehouse, effectively copying the data to the Azure Cloud.
D. The Data Virtualization platform can provide an abstraction layer on top of both data warehouse — Teradata on-premise and SQL

E. Data warehouse on Azure — and the users access the data through the Data Virtualization layer. This allow IT to move the data from Teradata to SQL Data Warehouse at their own pace (to minimize risk) without it affecting the users.

Answer: D

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