Denodo Platform 8.0 Certified Developer Sample Questions

1. Introduction

The Denodo Platform 8.0 Certified Developer Associate (**DEN80EDUCDA**) exam assesses developers' who understand the concepts and fundamentals for designing, developing, and deploying projects with the Denodo Platform. The Denodo Platform 8.0 Certified Developer Professional (**DEN80EDUCDP**) exam assesses developers' knowledge of the Denodo Platform and validates if they have the skills required by companies that use Denodo Platform 8.0.

This document includes 50 sample questions that you can use to prepare for the Denodo Platform 8.0 Certified Developer exams (Associate and Professional).

Note: Your successful completion of these sample questions is not a guarantee of passing the actual certification exam.

2. Sample Questions

1. **What is the meaning of the option 'Batch Insert Size' in the configuration of a JDBC data source?**
    a. It is the number of INSERT statements executed at the same moment when you execute different INSERT statements over this data source using a transaction.
    b. It is the size in KB that can be inserted in a single transaction with every INSERT statement.
    c. It is the number of INSERT statements in each batch when using Data Movement, materialized, and temporary tables.
    d. It is the maximum number of rows that you can insert at the same time with a VQL sentence like 'INSERT INTO myTable SELECT * from myOtherTable'.
2. **During the creation of a JDBC base view:**
    a. You have to always define the primary key for all the views, manually.
    b. The Server automatically imports the primary key of the view from the selected table in the database.
    c. Both JDBC and ODBC primary keys are imported from the selected table to the view definition.
    d. The Server never sets the definition of the primary key.
3. **A Delimited File data source can be used to...**
    a. ... connect only to flat files that have a comma or semicolon delimiter.
    b. ... access any text file with a known format that can be expressed as a regular expression or can specify a column delimiter.
    c. ... access Excel files in .xls format for Excel versions previous to 2013.
    d. ... access CSV files.
4. **To be able to work with arrays in Virtual DataPort views:**
    a. Views with arrays can be created but they must be flattened before issuing queries on them.
    b. You cannot work with arrays in Virtual DataPort views, you have to work with records.
    c. The special FLATTEN operation can be used to eliminate an array from a view and work directly with the content of the array.
    d. Arrays can only be created on views if we want to publish them as REST web services to create a hierarchical structure.
5. **Which of the following DML statements are allowed on a view created from a Delimited File data source?**
    a. SELECT, INSERT
    b. SELECT, UPDATE
    c. SELECT
    d. SELECT, DELETE

6. **The UNION operation allows obtaining a new view containing the tuples from another two views by means of executing a relational algebra union. Using Virtual DataPort, could you create a new UNION view from two different views if one of the views has an attribute (column) that the others do not have?**
    a. Yes. By default, in Virtual DataPort the UNION operation corresponds to the relational operation called extended union, so that attribute is added to the resulting view. The standard union, which requires both views to have the same number of fields, can be enabled in Virtual DataPort by setting the property com.denodo.vdb.union.enableStandardSQLUnion=true.
    b. No, both views should have the same output schema in order to use a UNION operation.
    c. No. If one of the views has different attributes a JOIN operation should be used instead.
    d. No. If one of the views has different attributes a FULL UNION operation should be used instead.
7. **You have to perform an inner join between two tables 'A' and 'B', from two different JDBC data sources. 'A' has 1000 rows and 'B' has 1 million rows. Which of the following sentences is right?**
    a. The HASH join is a good strategy if 'A' is set as the right branch.
    b. MERGE will not work.
    c. If a query plan is not specified, Virtual DataPort will always choose by default the NESTED join strategy.
    d. Both answers ‘a’ and ‘c’ are correct.
8. **What are the available Join execution methods?**
    a. HASH, MERGE.
    b. NESTED, HASH, LEFT OUTER.
    c. HASH, NESTED, MERGE, NESTED PARALLEL.
    d. HASH, NESTED, NESTED PARALLEL.
9. **How do you access an Oracle database using Virtual DataPort?**
    a. Using a JDBC data source.
    b. Using a Web Service data source.
    c. Using an XML data source.
    d. None of the above.
10. **Virtual DataPort uses by default an extended union for UNION views, whereby if any of the input views has a field that is not present in the other views, it is added to the output. Choose the correct sentence:**
    a. The schema of the output is formed always by the fields of 'view 1' and the fields of 'view 2' that are not present in 'view 1'.
    b. Only when 'UNION ALL' is used in the union operation, the schema of the output is formed by the fields of 'view 1' and the fields of 'view 2' that are not present in 'query 1'. In the standard UNION, the fields of 'view 2' that are not present in 'view 1' will be excluded from the results at execution time.
    c. The schema of the output is formed always by the fields of 'view 1' and the fields of 'view 2' that are not present in 'view 1' but all the fields of 'view 1' have to be present in 'view 2'.
    d. The schema of the output is formed only by the fields of 'view 1'.
11. **Pass-through session credential allows...**
    a. ... to specify login and password used by the data source.
    b. ... to get the information properties of the user and password of the data source.
    c. ... Virtual DataPort to use the user and password of the connected user at this moment to access the source.
    d. None of the above.
12. **The Denodo Web service data sources use a pool of connections.**
    a. False, this is only for ODBC and JDBC data sources.
    b. False, the web service data source does not need a pool of connections in Virtual DataPort.
    c. True, Web service data source has its own pool of connections in order to reuse the existing connections and avoid opening too many connections to retrieve the data.
    d. False, this is only for JDBC data sources.
13. **If all of the following options are available, what is the preferred way to connect to databases from Virtual DataPort?**
    a. Using JDBC, as it usually offers better performance than others.
    b. ODBC, as it is embedded in the Operating System.
    c. Web Services, because it is platform independent.
    d. Custom Wrappers, as they offer the most flexibility.

14. **When integrating a DF data source all the fields in the base view will be imported as 'text'. What happens if the data type of a field is changed to 'date' in the base view?**
    a. It is not possible to change the data type of a column at the base view level. A derived view must be created by applying the 'to_date' function to the column.
    b. If the value for the field is a date, Virtual DataPort will read the date properly. Otherwise, an error will be thrown when querying the base view.
    c. If the value of the field matches the date format defined in the internationalization map associated with the base view, Virtual DataPort will read the date properly. Otherwise, an error will be thrown when querying the view.
    d. It is possible, but if the value does not match the expected date pattern (the one specified at the base view level), then a null will be set for the date value.
15. **When you execute a base view created from a query over a JDBC data source, which of the following is true?**
    a. Conditions and aggregations will not be delegated to the data source.
    b. Conditions are delegated to the data source, but not aggregations.
    c. Conditions and aggregations are delegated to the data source, but only if you configure the base view to 'Delegate SQL Sentence as Sub Query'. This option is enabled by default.
    d. Only ORDER BYs are delegated to the data source.
16. **Which of the following statements is incorrect:**
    a. A projection operation can be embedded in Join, Union, Minus, Intersect, and Flatten operations.
    b. A selection operation cannot be embedded in Join, Union, Minus, Intersect, and Flatten operations.
    c. It is possible to use parameters in the values of a WHERE condition.
    d. It is not mandatory to specify a default value for the parameters defined in a selection operation.
17. **What is the difference between a nested and nested parallel join?**
    a. The subqueries issued to the right side of the join are issued in parallel instead of one after the other.
    b. A Nested parallel is more efficient than a Nested join when the data from the right side is obtained from a database.
    c. The subqueries issued to the left side of the join are issued in parallel instead of one after the other.
    d. There is no difference.
18. **Which of the following is not true about merge joins?**
    a. Data sources can be queried in parallel using this type of join.
    b. The data must be ordered in order for the join to execute properly.
    c. This strategy uses more memory than others.
    d. The error "No search methods ready to be run by static optimization preference" will occur if this strategy is not applicable to the views that you are trying to merge.
19. **Which of the following statements regarding primary keys for views is false?**
    a. If a view is imported through a JDBC data source, its primary keys are automatically imported.
    b. A column marked as a primary key is guaranteed to have unique values.
    c. At runtime, JDBC and ODBC clients can get the primary key definition of a view.
    d. The primary key definition of views is not propagated. That is, you have to define the primary key in the views where you need that information.
20. **Some Web service operations return compound values such as arrays of elements. If you have a high memory consumption querying a web service, which of the following alternatives may help?**
    a. Create the base view streaming the output at the specified level.
    b. Set a primary key for the base view.
    c. Do not stream the output to reduce memory.
    d. Edit the view and change the type of the compound field to 'text', so the value will be flattened automatically.
21. **In JDBC data sources, which statement is true regarding creating a Base view from a query?**
    a. Creating a Base view from Query is the recommended way to create base views.
    b. This is never recommended, use always create from selected.
    c. Creating a Base view from Query is recommended when you want to use a language construction that does not exist in Virtual DataPort.
    d. It is not relevant choosing From query or From selected.
22. **When you create a data source from an Excel file and leave the worksheet field blank...**
    a. ... the creation will fail. You should always give the name of the worksheet.
    b. ... the base view will retrieve the data from all the sheets. The resulting view will be a Join of all the columns.
    c. ... the base view will retrieve the data from the last sheet of the file.
    d. ... the base view will retrieve the data from only the first sheet of the file.
23. **You can model complex data types in Virtual DataPort with:**
    a. Registers, trees, and stacks.
    b. Arrays.
    c. Registers, arrays, and trees.
    d. Registers and arrays.

24. **Which one of the following contains only aggregation functions?**
    a. AVG, LEN, COUNT.
    b. AVG, LEN, MAX.
    c. AVG, COUNT, MAP.
    d. AVG, COUNT, NEST.
25. **What is the purpose of the ‘Has headers’ checkbox option of the Excel data source?**
    a. If checked, Virtual DataPort will interpret the first row of the data to be field names.
    b. If checked, Virtual DataPort will force the user to input custom names for each of the fields.
    c. If checked, Virtual DataPort will completely ignore the first row of data.
    d. If checked, Virtual DataPort will assume one of the rows of data contains the field names. It will then prompt the user to specify which one.
26. **If a consuming application requires a specific XML format for a web service different from the Denodo Platform web service default format. How could we implement this in Denodo?**
    a. Creating a stored procedure on top of the view with the desired format and then publishing the stored procedure instead of the view as a Web service.
    b. Using XSLT transformations as part of the settings of the published XML web service.
    c. It is not possible to implement this in Denodo. The web service output format cannot be changed and the client needs to adapt to this format.
    d. None of the answers is true.
27. **The 'XMLQuery' function...**
    a. ... creates a register or array compound type based on an XML-type element.
    b. ... returns the result of applying an XSLT stylesheet to an XML value.
    c. ... extracts information from an XSLT stylesheet using the XQuery language.
    d. ... extracts information from an XML document using the XQuery language.
28. **Do you have to click on the 'Use group by' option in order to create a new aggregation view?**
    a. Yes, in all cases.
    b. Yes, but only for 'Selection' views.
    c. Yes, but only for 'JDBC' views.
    d. No. For instance, you can create a select count(*) from view - without explicitly specifying the group by clause.
29. **Is it possible to add a new aggregation field in a derived view without checking the option 'Use group by'?**
    a. Yes, Use group by will be automatically checked.
    b. Yes, but only for 'Selection' views.
    c. Yes, but only for 'JDBC' views.
    d. No, it is required to manually check the 'Use group by' option in the 'Group By' tab.
30. **Regarding Excel Data Sources, what happens if you do not select any option for the 'Work sheet' attribute?**
    a. It is a mandatory attribute so you have to select one option.
    b. The data source will get data from all sheets.
    c. The data source will extract data from all sheets and the name of each sheet as a column.
    d. The base view will retrieve data from the first sheet of the file.
31. **The 'Web services container' option, under the 'Tools' menu...**
    a. ... allows deployment of the web services in both embedded and external web containers.
    b. ... allows exporting web services as JAR files.
    c. ... lists all the web services, including the RESTful WS.
    d. ... allows the creation of new web services.
32. **Which of the following is not an aggregation function?**
    a. NEST
    b. LAST
    c. CONCAT
    d. VARP
33. **Which of the following is NOT true about the 'Stream Tuples' option when creating an Excel data source.**
    a. If using this option, date values in the Excel file will be read as text values in the base view.
    b. An advantage of this option is that it has a lower memory footprint.
    c. If this option is enabled, Denodo will utilize a SAX parser when connecting instead of a DOM parser.
    d. This option is suitable only when the Excel file is small.
34. **Which of the following is true regarding the global configuration 'Use version control' parameter:**
    a. When this global parameter is enabled, version control will be activated for all databases to take advantage of the feature.
    b. When this global parameter is enabled, version control will only be activated for databases that are configured to take advantage of the feature.
    c. You can enable the version control system for a specific database without activating this global parameter.
    d. This is not a global parameter, you have to configure it for each database.

35. **Which of the following returns the first row of the view 'emp'?**
    a. SELECT * FROM emp LIMIT 1
    b. SELECT * FROM emp FETCH NEXT ROW ONLY
    c. SELECT * FROM emp FETCH FIRST 1 ROW ONLY
    d. All the options are correct
36. **Which of the following best practices is true:**
    a. A Virtual DataPort database should be created per project.
    b. Environment dependent metadata should be located in .properties files.
    c. Have a separate server for Development and production environments.
    d. All the answers are true.
37. **Which of the following statements is correct about the 'Context' clause:**
    a. The context clause allows altering the execution context for the query.
    b. The context clause receives key-value pairs.
    c. Some of the keys that can be modified using the context clause are: i18n, subQueryPlan, swap...
    d. All the options are correct.
38. **Is it a best practice to mix development and production schemas in the same server?**
    a. Yes, you should just put them into separate databases on the server.
    b. No, each environment should be located on different servers to minimize issues.
    c. No, it's better to use a single server with Dev, QA, and Staging environments to test changes in a data schema before migrating modifications to the Production server.
    d. Yes, it is best to have the development and testing in the same server available instead of having to migrate across servers.
39. **You want to see all of the queries that are being run on the Denodo server, but they aren't being logged. What should you do?**
    a. Define a new Log4J Appender in Log4j2.xml.
    b. Execute Call LogController('com.denodo.vdp.executions', 'trace') in the VQL shell.
    c. Execute Call LogController('com.denodo.vdp.queries', 'trace') in the VQL shell.
    d. Change the com.denodo.vdp.incoming Logger level to 'TRACE' in %DENODO_HOME%/conf/vdp file.
40. **When doing a commit of a change, if 'Enable conflict detection' is disabled in the Virtual DataPort Administration tool and also in the Check in dialog:**
    a. If there is a conflict, the remote version will be automatically overwritten by the local one.
    b. If there is a conflict, the operation will fail because the VCS server will return an error.
    c. If there is a conflict, you have the option to overwrite your local version with the version in the VCS server.
    d. If there are conflicts, the Tool will switch to the 'Conflicts' tab which will list the elements that have conflicts.
41. **When you have enabled VCS control and one element is grey, what is the status of that element?**
    a. The element is under version control and contains uncommitted local changes.
    b. The element is under version control and has been locally deleted.
    c. The element is under version control and there are no local changes.
    d. This element is not under version control yet.
42. **VCS allows users...**
    a. ... to do Check in / Check out elements.
    b. ... reverting elements, folders, and databases to previous versions.
    c. ... to check conflict detection and resolution in the check-in and check-out dialogs.
    d. All the answers are correct.
43. **How can you modify the Execution Plan of a JOIN view?**
    a. Using the property "changeExecutionPlan" in the CONTEXT clause of the query.
    b. Editing the view definition.
    c. Through the Execution Plan tab.
    d. It is not possible to modify the Execution plan of a Join view.
44. **On a regular basis, the servers ask the License Manager for their license and it provides each one of them with a license according to the environment they belong to. For this to work, the environment must have a license scenario assigned. Which of the following statements related to license scenarios and environments is true?**
    a. Different environments can be assigned to more than one license scenario.
    b. Different license scenarios can be assigned to one environment.
    c. A license scenario can only be assigned to more than one environment.
    d. An environment can only have assigned one license scenario.
45. **In Solution Manager, the changes that need to be promoted from one environment to another environment are represented as:**
    a. Versions
    b. Revisions
    c. Plans
    d. Components

46. What does a revision consist of

a. A VQL with the Virtual DataPort elements selected, if any.
b. A ZIP file with the Scheduler tasks selected, if any.
c. Either 'a' or 'b' but not both.
d. Both 'a' and 'b'.

47. The action of resetting the local repository to a particular commit is known as:

a. Revert
b. Push
c. Pull
d. All of the above

48. Which of the following action is called receiving a resource from the version control repository?

a. Check-in
b. Commit
c. Check out
d. None of the above

49. Which of the following is true regarding extended UNION views in the Denodo Platform?

a. All the relations or tables must have the same schema.
b. Union view merges the tuples from various views belonging to the same database.
c. An attribute that is not present in the other views will also be added to the output view.
d. An attribute that is not present in the other views will be ignored.

50. Which of the join execution types are invalid?

a. Merge
b. Hash
c. Nested Loop
d. Nested Parallel

3. Answers

Question	Correct Answer	Question	Correct Answer
1	c	26	b
2	b	27	d
3	b	28	d
4	c	29	a
5	c	30	d
6	a	31	d
7	a	32	c
8	c	33	d
9	a	34	b
10	a	35	d
11	c	36	d
12	c	37	d
13	a	38	b
14	d	39	c
15	c	40	b
16	b	41	b
17	a	42	d
18	c	43	c
19	b	44	d
20	a	45	b
21	c	46	d
22	d	47	a
23	d	48	c
24	d	49	c
25	a	50	c