DA-100 Practice Exam

Thinkific User ID:	43151845
Full Name:	Obse, Girum
Email Address:	giruml2020@gmail.com
Respondent ID:	26504
Date Started:	11/02/2022 07:14:06 PM
Date Completed:	11/02/2022 08:02:12 PM
Attempt:	2

Question Topic

	Num	Question	
		Respondent's Answer	Correct Answer

Case Study #1 Earned 5 of 5 points (100%).

1. You're asked to help evolve Maven Cycle's RLS policy for territory managers. Which of the following solutions, when implemented, would not make it easier to set up, maintain, and manage the growing team's RLS roles?

Respondent's Answer	Correct Answer
( ) Add an email address column to the Territories_Lookup table	( ) Add an email address column to the Territories_Lookup table
(X) Develop additional static RLS roles for new team members	(X) Develop additional static RLS roles for new team members
( ) Create the following role: 'Territories_Lookup[Region]= USERPRINCIPALNAME()	( ) Create the following role: 'Territories_Lookup[Region]= USERPRINCIPALNAME()
( ) Build security groups in Azure	( ) Build security groups in Azure

Explanation: See video walkthrough in the next lecture!

2. You need to create a component measure that can be used as an input for a Percent of all returns calculation. The component measure needs to always show total returns, regardless of external filter context. Which of the following measures should you create?

Respondent's Answer	Correct Answer
( ) CALCULATE([Total Orders], ALL(Returns))	( ) CALCULATE([Total Orders], ALL(Returns))
( ) SUMX(Returns,Returns[quantity returned])	( ) SUMX(Returns,Returns[quantity returned])
(X) CALCULATE([Total Returns], ALL(Returns))	(X) CALCULATE([Total Returns], ALL(Returns))
( ) SUM(Returns[quantity returned])	( ) SUM(Returns[quantity returned])

Explanation: See video walkthrough in the next lecture!

3. During your data QA process, you notice that there are null values in the Return type column (Returned, No return, and null). After talking with your manager, you decide to impute (replace) the null values with a value of "No return". Which of the following actions should you take?

Respondent's Answer	Correct Answer
(X) Select the Return type column > Transform > Replace values	(X) Select the Return type column > Transform > Replace values
( ) Select the Return type column > Transform > Fill down	( ) Select the Return type column > Transform > Fill down
( ) Select the Return type column > Add column > Column from example	( ) Select the Return type column > Add column > Column from example
( ) Select the Return type column > Home > Remove rows	( ) Select the Return type column > Home > Remove rows

Explanation: See video walkthrough in the next lecture!

4. Based solely on the summary data table provided in this case, how many active relationships will be created in your data model and of what cardinality?

( ) 6 relationships, one-to-many
(X) 7 relationships, one-to-many
( ) 8 relationships, one-to-many
( ) 10 relationships, one-to-many

( ) 6 relationships, one-to-many
(X) 7 relationships, one-to-many
( ) 8 relationships, one-to-many
( ) 10 relationships, one-to-many

Explanation: See video walkthrough in the next lecture!

5. Based on the territory managers requests, which of the following calculations would provide sales for the prior quarter?

( ) CALCULATE([Total Sales], DATESQTD(Calendar[Date]))
( ) CALCULATE([Total Sales], PRIORQUARTER(Calendar[Date]))
( ) CALCULATE([Total Sales], LASTDATE(Calendar[Date,-1,QUARTER]))
(X) CALCULATE([Total Sales], DATEADD(Calendar[Date],-1, QUARTER))

( ) CALCULATE([Total Sales], DATESQTD(Calendar[Date]))
( ) CALCULATE([Total Sales], PRIORQUARTER(Calendar[Date]))
( ) CALCULATE([Total Sales], LASTDATE(Calendar[Date,-1,QUARTER]))
(X) CALCULATE([Total Sales], DATEADD(Calendar[Date],-1, QUARTER))

Explanation: See video walkthrough in the next lecture!

Knowledge Based

Earned 47 of 50 points (94%).

6. You create a visual that shows sales metrics by category and want to add a customized tooltip for each category that displays when you hover. What type of tooltip should you create?

( ) Default
(X) Report page
( ) Customized
( ) Display page

( ) Default
(X) Report page
( ) Customized
( ) Display page

Explanation: Tooltips in Power BI have two types, default and report page. You can create a report page that is customized to your report format and contains more details and metrics than are available from the default view

7. Which of the following tools will help Power BI report users ask natural language questions using the built in Q&A feature?

[ ] Add commonly used synonyms to the tables
[ ] Add a description into the tool tip of the visual
[X] Send a list of approved Q&A terms to users
[ ] Use the Q&A tooling interface

[X] Add commonly used synonyms to the tables
[ ] Add a description into the tool tip of the visual
[ ] Send a list of approved Q&A terms to users
[X] Use the Q&A tooling interface

Explanation: Adding synonyms to tables from the data model view and using the Q&A tooling interface to manage Q&A are both best practices

8. Which of the following features needs to be in place before on-premises data sources, like SSAS Tabular, MySQL, and flat files, can be set up for scheduled refresh?

(X) A Data Gateway
( ) Large Dataset Storage Format enabled
( ) RangeStart and RangeEnd parameters
( ) An Incremental Refresh policy

(X) A Data Gateway
( ) Large Dataset Storage Format enabled
( ) RangeStart and RangeEnd parameters
( ) An Incremental Refresh policy

Explanation: On-premises data sources, like SSAS Tabular, MySQL, flat files, Oracle, etc., require a data gateway to refresh

9. What analytics feature can be added to a line chart that will estimate trends in an upcoming time period?

( ) Percentile line
(X) Forecast
( ) Find anomalies
( ) Y-Axis constant line

( ) Percentile line
(X) Forecast
( ) Find anomalies
( ) Y-Axis constant line

Explanation: Line charts with a single line have a forecasting analytics option that can be enabled

10. Which of the following is not a valid statement about RLS?

( ) RLS only works for users assigned to the Viewer role
(X) An individual user cannot be assigned multiple RLS roles
( ) USERPRINCIPALNAME is a form of dynamic RLS
( ) View as allows you to preview an RLS role in Power BI Desktop

Explanation: When a user is assigned to multiple roles, the RLS filters become additive and create a union between the filters

11. Which of the following provides a notification when a specific threshold is crossed?

( ) A Q&A visual
( ) A smart narrative visual
(X) A data alert
( ) A subscription

Explanation: Data alerts let you trigger a notification when a threshold is crossed

12. Which of the following is not an example of a static RLS role?

( ) = [Country] = "Spain"
( ) = [Email] = "ajuan@mavencycles.com"
(X) = [Territory Manager] = USERNAME()
( ) = [Year] IN {2020, 2021}

Explanation: RLS roles that use the DAX functions USERNAME and USERPRINCIPALNAME are examples of dynamic RLS roles

13. Which of the following workspace roles is the lowest level available where a user can publish reports and delete dashboards within a workspace

( ) Admin
( ) Member
(X) Contributor
( ) Viewer

Explanation: Contributors can create, edit, and delete content in a workspace and publish reports to the workspace

14. Your organization needs to separate development, test, and production environments to better optimize their content. What tool makes this possible?

( ) Goal setting
( ) Apps
(X) Deployment Pipelines
( ) Workspaces

Explanation: Deployment pipelines allow you to manage the lifecycle of your organizations content

15. You create a Power BI report with multiple pages and want to ensure that a slicer selection on one page filters other pages in the same report. What feature could you use?

( ) Drill through filter
( ) Cross-report filter
(X) Sync slicer
( ) None of the above

Explanation: The sync slicer option ensures that a slicer selection on one page propagates to other pages within the same report

16. Which of the following data preview options shows you details about column statistics and value distributions in a column?

( ) Column distribution
(X) Column profile
( ) Column quality
( ) Show whitespace

Explanation: Column profile shows the detailed column statistics (count, error, empty, distinct, etc.) and value distribution based on a selected column

17. You build a report to help the sales team perform ad hoc exploration. What type of visual do you add to the report?

(X) Decomposition Tree   (X) Decomposition Tree
( ) Q&A   ( ) Q&A
( ) Key Influencers   ( ) Key Influencers
( ) Smart Narrative   ( ) Smart Narrative

Explanation: Decomposition trees allow you to perform exploratory and root cause analysis

18. You use the Folder data connection option in Power BI Desktop to connect to a series of Excel files that contain many years worth of data. As part of your development process, you append the files together into a master dataset and try to set up incremental refresh but it fails to run. What could be the root cause?

( ) You forgot to publish to Power BI Service   ( ) You forgot to publish to Power BI Service
( ) A data gateway isn't installed   ( ) A data gateway isn't installed
( ) RangeStart and RangeEnd parameters aren't set up ( ) RangeStart and RangeEnd parameters aren't set up
(X) Excel files don't support query folding   (X) Excel files don't support query folding

Explanation: Queries using Excel, CSV, blob storage, and other flat files don't support query folding and therefore cannot take advantage of incremental refresh

19. Which of the following Query Editor tools allows you dynamically change the source of your query?

( ) Use automatic source settings   ( ) Use automatic source settings
( ) Enable load to report   ( ) Enable load to report
(X) Create parameters   (X) Create parameters
( ) Update file origin   ( ) Update file origin

Explanation: Using parameters allows you to easily switch between different tables and schemas in a data source or database

20. You need to create a visual that compares two series of data points over time. What visual should you use?

( ) Waterfall chart   ( ) Waterfall chart
(X) Line chart   (X) Line chart
( ) Clustered column chart   ( ) Clustered column chart
( ) Stacked area chart   ( ) Stacked area chart

Explanation: Line charts are used to visualize change over time

21. You're prioritizing report development updates and need to understand how making changes to a dataset will influence other downstream reports and dashboards. What tool should you use?

( ) Deployment Pipelines   ( ) Deployment Pipelines
(X) Impact Analysis   (X) Impact Analysis
( ) Key Influencers   ( ) Key Influencers
( ) Quick Insights   ( ) Quick Insights

Explanation: Impact analysis provides you the tools to understand how making changes to a dataset will impact downstream reports and dashboards

22. Which of the following options lets you dynamically filter a visual to show only the highest 10 revenue generating customers?

( ) Advanced filtering   ( ) Advanced filtering
(X) Top N filtering   (X) Top N filtering
( ) Basic filtering   ( ) Basic filtering
( ) High-pass filter (HPF)   ( ) High-pass filter (HPF)

Explanation: Top N visual-level filters are used to only display the top performing records

23. Which of the following Add Column options allows you to to add new columns of data when you know the data you want in the new column, but are not sure which Query Editor transformations to use?

(X) Column from examples
( ) Custom column
( ) Index column
( ) Duplicate column

Explanation: Column from examples allows you to add in new columns to your data model by providing examples from an existing column. The Query Editor will do its best to write a transformation formula based on the examples provided.

24. Which of the following is not an Edit Interactions option?

(X) Drill through
( ) Filter
( ) None
( ) Highlight

Explanation: Filter, Highlight, or none (no interaction) are all options available when setting interactions between visuals

25. Which of the following M code functions allows you to remove a column from the table specified?

( ) Table.Column
(X) Table.RemoveColumns
( ) Table.AddColumn
( ) Table.Range

Explanation: The Table.RemoveColumns function allows you to remove the specified columns from the table provided. If the column doesn't exist, an exception is thrown unless the optional parameter missingField specifies an alternative table

26. Which of the following options would you configure to email an image of a report and a link to the report in Power BI Service?

( ) Publish an app
( ) Download the Power BI mobile app
(X) Create a subscription
( ) Create a data alert

Explanation: Subscriptions allow you to send daily emails with snapshots of metrics and visuals

27. What are the two main blocks that make up an M code query?

( ) let & out
( ) in & out
( ) set & in
(X) let & in

Explanation: M code typically consists of two blocks: let & in. The let block contains the definition of all variables in the query and the in block is the output of the query

28. Which Power Query tool could you use to add columns from a related table?

( ) Relate
(X) Merge
( ) Append
( ) Combine

Explanation: There are two primary ways of combining queries: merging and appending. When you have one or more columns that you'd like to add to another query, you merge the queries.

29. You manage an analytics team and one of your junior analysts asks you to help identify some reasons why their report performance is slow. Which of the following options would you suggest they investigate?

( ) Use a star schema instead of a snowflake schema when possible
( ) Use slicers only as needed on report pages
( ) Reduce the number of visuals on a single report page
(X) All of the above

Explanation: There are many reasons why a Power BI may perform slowly. Some areas that can impact performance are when complex snowflake schemas are used to model data, many slicers are used within a report page, and when there is a large number of visuals on a single report page.

30. Which of the following provides a scalable way to manage large numbers of Power BI users within an organization?

( ) Implement an RLS policy in Power BI Desktop
( ) Set default user workspace permissions to Viewer
(X) Create Active Directory groups
( ) Remove Edit access of the underlying dataset

Explanation: When using Active Directory groups, you no longer need to maintain lists of individual users

31. Which of the following DAX functions returns a specified number of rows based on a given expression?

( ) FILTER
( ) ALLEXCEPT
( ) CALCULATETABLE
(X) TOPN

Explanation: TOPN can be used to create both tables and measures and will return a subset of customers based on the N_Value

32. You're performing some quality assurance steps on a dataset and need to visually identify outliers in the table. What visual(s) could you use?

[X] Scatter plot
[ ] Ribbon chart
[X] Box & Whisker plot
[ ] Area chart

Explanation: Scatter plots and box plots help identify data points that are outside of an expected distribution

33. Suppose you're developing a report for an internal team and need to add a visualization that helps the team understand factors that drive a specific metric. What visual would you add?

( ) Decomposition Tree
(X) Key Influencers
( ) Funnel Chart
( ) 100% Stacked Column

Explanation: The key influencers visual shows the most important factors based on the fields provided

34. Which of the following Power BI Service tile options allows you to paste or type any HTML content?

(X) Web Content
( ) Text box
( ) Video
( ) Custom streaming data

Explanation: The web content tile allows you to add and customize any HTML content, like websites. Web content tiles preserve the functionality of the page so you can access other videos on the site. The video tile only allows you to post a single video

35. As a Power BI developer, which of the following views help you understand how data is linked across multiple data sources?

(X) Lineage View
( ) Report Editing View
( ) List View
( ) Workspace View

(X) Lineage View
( ) Report Editing View
( ) List View
( ) Workspace View

Explanation: The data lineage view shows you how data is connected across multiple data sources and how it flows to create data sources, reports, dashboards, and apps.

36. Which of the following determines the order in which users switch between visuals when using a keyboard?

( ) Sort Order
( ) Layer Order
( ) Filter Order
(X) Tab Order

( ) Sort Order
( ) Layer Order
( ) Filter Order
(X) Tab Order

Explanation: Tab order determines the order in which users switch between visuals when using a keyboard

37. Which of the following options are reasons to use DirectQuery over Import mode in Power BI?

[X] The dataset is very large
[X] The dataset needs to be as close to real-time as possible
[ ] Many transformations in the Query Editor are needed
[ ] You haven't used DirectQuery in a while

[X] The dataset is very large
[X] The dataset needs to be as close to real-time as possible
[ ] Many transformations in the Query Editor are needed
[ ] You haven't used DirectQuery in a while

Explanation: DirectQuery is best used when the report requirements are near real-time data and/or the dataset is very large

38. Which of the following options allows you to pass filter context to all, or specific, pages within a report?

[X] Sync slicers
[ ] Bookmarks
[X] Report-level filters
[ ] Page-level filters

[X] Sync slicers
[ ] Bookmarks
[X] Report-level filters
[ ] Page-level filters

Explanation: Using report-level filters & syncing slicers across report pages allows users to select a single value to filter the results on all pages

39. Suppose you have a table containing hourly-level sales data, and want to aggregate or roll it up to a daily summary. Which Power Query tool would you use to do this?

( ) Aggregate
( ) Summarize
(X) Transform > Group By
( ) Add column > Group By

( ) Aggregate
( ) Summarize
(X) Transform > Group By
( ) Add column > Group By

Explanation: Group By, available in the Transform tab, is used when you want create a summary view or group various values in many rows into a single value

40. You have two tables in a data model: Calendar_Lookup and Sales_Fact. The Calendar_Lookup table contains a single column of Date values. In the Sales_Fact table, there is a column called 'Transaction Date' which has unique DateTime records for every sale. Based on this, which of the following statements are true?

[X] DateTime columns can increase the cardinality of a dataset
[ ] DateTime columns should be split into separate Date and Time columns
[X] The relationship between Calendar_Lookup and Sales_Fact is one-to-many (1:*)
[ ] The relationship between Calendar_Lookup and Sales_Fact is one-to-one (1:1)

[X] DateTime columns can increase the cardinality of a dataset
[X] DateTime columns should be split into separate Date and Time columns
[X] The relationship between Calendar_Lookup and Sales_Fact is one-to-many (1:*)
[ ] The relationship between Calendar_Lookup and Sales_Fact is one-to-one (1:1)

Explanation: In a large dataset (1 million + rows) with a date/time column that contains unique values, the cardinality of that column is very large and leads to performance issues. Splitting out the time component from the date helps reduce the model size. Additionally, because the lookup table contains a single column of Date values and all DateTime values in the Sales_Fact table are unique, the relationship between Lookup and Fact table is one-to-many

41. In Power BI Desktop, you can determine and specify a column's data type in which of the following locations?

( ) Query Editor
( ) Report view
( ) Data view
(X) All of the above

Explanation: The data type of a column can be set or adjusted from three locations: the Query Editor, Report view (column tools), and the Data view (column tools)

42. Which of the following options filters visuals contained on all pages?

(X) Report-level filters
( ) Page-level filters
( ) Drill-through filters
( ) Visual-level filters

Explanation: Report-level filters are applied to all pages of a report

43. Which of the following statements is true about column profiling in the Query Editor?

( ) By default, column profiling is based on all rows in the dataset
( ) Column profile tools are difficult to use and understand
( ) Column profile tools are only available with Pro and Premium per User license types
(X) By default, column profiling is based on the first 1,000 rows

Explanation: By default, column profiling is only based on the first 1,000 rows within a table. In order to see all of the rows (records) in a table, you need to select column profile based on entire dataset

44. Which of the following are known limitations when creating visuals from queries using R?

( ) Plots limited to 150,000 rows
( ) Visual output limit of 2MB
( ) Calculations that take longer than 5 minutes will time out
(X) These are all known limitations

Explanation: Plots limited to 150,000 rows, visual output limit of 2MB, visual resolution of 72 DPI, and calculations > 5 minutes timing out are all known limitations when using datasets generate in R

45. Tooltips allow you to add additional context and information to a visual. Which of the following statements is not true about tooltips?

(X) Tooltips can only accept and show text information
( ) Tooltips appear when you hover over a data point
( ) Tooltips can be based on report pages built in Power BI
( ) Tooltips can show and accept both text and graphical information

Explanation: Tooltips appear when you hover over a data point in a visual, can display both text and graphical information, can be either of type default or report page. When set to report page, a tooltip can be fully customized and include many metrics, other charts & visuals, have a custom background, etc.

46. Which of the following allows you to reduce the size of a very large dataset with multiple date fields being imported into Power BI?

( ) Remove unused columns
( ) Disable auto Date/Time
( ) Delete high cardinality columns
(X) All of the above

Explanation: All of these options can be used to reduce the size of a dataset

47. Which of the following workspace roles can only assign viewer, contributor, and member roles?

( ) Viewer
( ) Admin
( ) Contributor
(X) Member

Explanation: Members can assign member roles and below

48. You're asked by a coworker to add a mean line to a line chart. Which of the following analytics pane options should you use?

( ) Add a constant line
( ) Add a percentile line
(X) Add an average line
( ) Add a median line

Explanation: The analytics pane options change by chart type but for a line chart you can add an average line (mean)

49. Which of the following DAX functions is not a CALCULATE modifier?

( ) ALLSELECTED
(X) AND
( ) ALL
( ) ALLEXCEPT

Explanation: AND is the only function listed that is not a CALCULATE modifier

50. Which type of cardinality describes the ideal type of table relationship in Power BI Desktop?

( ) One-to-One
(X) One-to-Many
( ) Many-to-Many
( ) All-to-One

Explanation: With few exceptions, tables within a Power BI Desktop data model should be related via one-to-many relationships, between primary and foreign keys.

51. Suppose you have a data model that contains two tables: Sales_Fact and Calendar_Lookup. You want to connect the Order Date and Transaction Date fields in Sales_Fact table to a single date field in a Calendar_Lookup table. What type of relationship(s) will be used?

( ) One active
( ) Two active relationships
( ) Two inactive relationships
(X) One active and one inactive relationship

Explanation: When creating relationships, you can only have one active relationship between the same column in a lookup table and a fact table. The first relationship created will default to active.

52. Which of the following DAX functions lets you use an inactive relationship for the duration of the calculation?

( ) CROSSFILTER
( ) TREATAS
( ) RELATEDTABLE
(X) USERELATIONSHIP

Explanation: USERELATIONSHIP let's you traverse inactive relationships in your data model

53. You add a clustered column chart to a report. Which of the following analytics features allows you to see different divisions in the data?

(X) Percentile line
( ) Constant line
( ) Mean line
( ) Average line

Explanation: A percentile line allows you to add a dynamic line to a visual that will visually indicate values that fall below the specified percentile. For example, adding a 75th percentile line would show you the value below which 75% of the observations are found

54. You create multiple dashboards in Power BI Service and need a way to classify which dashboards contain critical content. What should you use?

( ) Data Labels
( ) Active Directory Groups
( ) Comments
(X) Sensitivity labels

Explanation: Sensitivity labels provide a simple way for users to classify content in Power BI Service

55. Which of the following table types will help reduce the size of a data model by reducing cardinality?

( ) Bridge
(X) Summary
( ) Temporary
( ) View

Explanation: A summary data table is an effective way to reduce the size of a data model because summary tables group data together, which reduces the cardinality (number of unique values in a column) of columns

Case Study #2 — Earned 4 of 5 points (80%).

56. Suppose you need to create a measure for profit margin (profit / revenue). Which of the following DAX expressions is the most optimal way to calculate profit margin?

( ) IFERROR([Profit] / [Revenue])
(X) DIVIDE([Profit], [Sales])
( ) IF(ISERROR([Profit] / [Revenue]))
( ) There is no difference in performance, all of these expressions have the same optimization

Explanation: See video walkthrough in the next lecture!

57. You're informed that Maven Toy Emporium recently purchased a Power BI Premium Gen 2 P1 SKU. Based on this, what's the best way to share reports and your analysis with the MTE team?

( ) Add all MTE employees as members of a Workspace
( ) Share the reports with each individual
( ) Use the Publish to Web feature
(X) Create an app that contains the reports

Explanation: See video walkthrough in the next lecture!

58. You need to add a visual that will help you understand if MTE's data contains seasonality. Which of the following visuals would help you compare values over time?

( ) Line chart
(X) Bar chart
( ) Key Influencers
( ) Histogram

Explanation: See video walkthrough in the next lecture!

59. You need to create a visualization that will help the MTE team track and understand estimated monthly revenue loss due to out-of-stock products. What visualizations could you use to track the potential revenue lost by month along with store and product detail?

( ) KPI card & bar chart
( ) Card & Table
(X) KPI card & Table
( ) Card & bar chart

( ) KPI card & bar chart
( ) Card & Table
(X) KPI card & Table
( ) Card & bar chart

Explanation: See video walkthrough in the next lecture!

60. You start building out a dynamic calendar table in the query editor. Which of the following statements would you use to create a Start of Week column that begins on Monday?

( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.StartOfWeek([Date],Day.Sunday), type date)
(X) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.StartOfWeek([Date],Day.Monday), type date)
( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.EndOfWeek([Date],Day.Sunday), type date)
( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.EndOfWeek([Date],Day.Tuesday), type date)

( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.StartOfWeek([Date],Day.Sunday), type date)
(X) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.StartOfWeek([Date],Day.Monday), type date)
( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.EndOfWeek([Date],Day.Sunday), type date)
( ) Table.AddColumn(#"Inserted Day Name", "Start of Week", each Date.EndOfWeek([Date],Day.Tuesday), type date)

Explanation: See video walkthrough in the next lecture!

Time Used: 00:48:06

Final Score: **93%**