Advanced DAX Benchmark Assessment



Review Results POWERBI-937102-BENCHMARK Assessment

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Attempt:	1	

Ques	Question Topic			
	Num	Question		
		Respondent's Answer	Correct Answer	
The	DAX Er	ngines	Earned 1 of 1 points (100%).	
	1.	Which of the following encoding methods uses a mathematical prvalue?	rocess to reduce the number of bits needed to store an integer	
		 () Hash Encoding () Run Length Encoding () Algorithmic Encoding (X) Value Encoding () I don't know yet 	 () Hash Encoding () Run Length Encoding () Algorithmic Encoding (X) Value Encoding () I don't know yet 	
		Explanation: Value encoding is a VertiPaq compression and enconumber of bits needed to store integer values Related Lecture: Value Encoding	oding method that uses a mathematical process to reduce the	
Tips	& Best	Practices	Earned 1 of 1 points (100%).	
	2.	Which of the following statements is not true about DAX variables (VAR)		
		() Variable help simplify and streamline DAX code	() Variable help simplify and streamline DAX code	

() Variables make more complex DAX code easier to read

(X) Variables are portable and can be used across multiple

() Variables are only evaluated once no matter how often they're used in a query

() I don't know yet

() Variables make more complex DAX code easier to read

(X) Variables are portable and can be used across multiple

() Variables are only evaluated once no matter how often they're used in a query

() I don't know yet

Explanation: Variables in DAX can only be accessed, or referenced, in the query in which they are declared. A variable created in a [Revenue] measures couldn't be accessed in a [Profit] measure

Related Lecture: Creating & Using Variables

Earned 1 of 2 points (50%). **Scalar Functions**

	3.	A SUM function is internally evaluated by the DAX engines as	
		() SUMX () SUM (X) SUMMARIZE () CALCULATE(SUM) () I don't know yet Explanation: Internally, SUM is interpreted as SUMX which provided the sum of the	(X) SUMX () SUM () SUMMARIZE () CALCULATE(SUM) () I don't know yet des the table and column reference, or expression, to be summed
	4.	Which of the follows DAX expressions can be used to replace mu	Itiple nested IF statements?
		() SWITCH (X) SWITCH(TRUE) () IFS () CASE(WHEN) () I don't know yet	() SWITCH (X) SWITCH(TRUE) () IFS () CASE(WHEN) () I don't know yet
		Explanation: By adding TRUE to the SWITCH function, you can r	eplace the need for multiple nested IF statements
		Related Lecture: Logical Functions: SWITCH	
Adva	anced C	ALCULATE	Earned 2 of 3 points (67%
	5.	REMOVEFILTERS is an alias for which of the following functions'	>
		() FILTER (X) ALL () FILTERS () CLEARFILTERS () I don't know yet Explanation: REMOVEFILTERS is an alias for ALL, but can only	() FILTER (X) ALL () FILTERS () CLEARFILTERS () I don't know yet be used as a CALCULATE modifier
		Related Lecture: REMOVEFILTERS	
	6.		
		() They only exist in data models with one-to-one relationships () They only exist in data models with many-to-many relationships () They always start from the one side of a relationship and extend to the many side (X) They always start from the many side of a relationship and extend to the one side () I don't know yet	() They only exist in data models with one-to-one relationships () They only exist in data models with many-to-many relationships () They always start from the one side of a relationship and extend to the many side (X) They always start from the many side of a relationship and extend to the one side () I don't know yet
		Explanation: An expanded table consists of the base table, along a relationship	with columns from any related table connected on the one-side c
	7.	Related Lecture: Expanded Tables Which of the following is the process of turning row context into file	tor contaxt?
		Which of the following is the process of turning row context into fil () Context Transition () Filter Transition (X) Filter Context () Row Context () I don't know yet	(X) Context Transition() Filter Transition() Filter Context() Row Context() I don't know yet
		Explanation: Context transition is the process of turning row cont	ext into filter context
		Related Lecture: Context Transition	

Table & Filter Functions Which of the following DAX functions will return a blank row when you are looking up distinct values from a related table, but a value used in the relationship is missing from one table? (X) VALUES (X) VALUES () DISTINCT () DISTINCT () DISTINCTVALUES () DISTINCTVALUES () FILTER () FILTER () I don't know yet () I don't know yet Explanation: VALUES will return a blank row, instead of throwing an error, when a value is missing from a lookup table Related Lecture: VALUES 9. Which of the following DAX functions would you use when you want to return a table instead of a scalar value? (X) SUMX () SUMX () DISTINCT (X) DISTINCT () DISTINCTCOUNT () DISTINCTCOUNT () AVERAGE () AVERAGE () I don't know yet () I don't know yet Explanation: DISTINCT is a table function that will either return a single column table or a multi-column table based on the parameters supplied to the function Related Lecture: DISTINCT 10. Which of the following methods would you use to manufacture data from scratch? () ROW () ROW () DATATABLE (X) DATATABLE () {} () {} () All of the above (X) All of the above () I don't know yet () I don't know yet Explanation: There are four main ways to generate data from scratch using DAX. ROW, DATATABLE, GENERATESERIES, and Table Constructors { } Related Lecture: Generating Data Earned 1 of 1 points (100%). Calculated Table Joins 11. Which of the following DAX functions works just like Query Editor append transformation? () CROSSJOIN () CROSSJOIN () EXCEPT () EXCEPT (X) UNION (X) UNION () INTERSECT () INTERSECT () I don't know yet () I don't know yet Explanation: UNION stacks tables together, just like append in the guery editor Related Lecture: UNION Earned 3 of 4 points (75%). **Relationship Functions**

Earned 1 of 3 points (33%).

12.	Which of the following CALCULATE modifiers allows you to change filter propagation for the duration of a calculation?	
	() USERELATIONSHIP () KEEPFILTERS (X) CROSSFILTER () REMOVEFILTERS () I don't know yet Explanation: CROSSFILTER allows you change the way filters fl	() USERELATIONSHIP () KEEPFILTERS (X) CROSSFILTER () REMOVEFILTERS () I don't know yet ow (one-way or bidirectional) for the duration of a calculation
13.	Which of the following DAX functions allows you to access, and u	ise, inactive relationships in your data model?
	() CROSSFILTER (X) USERELATIONSHIP () FILTER () CROSSJOIN () I don't know yet Explanation: USERELATIONSHIP allows you to use inactive relawhen multiple date fields are connected to a single calendar look.	() CROSSFILTER (X) USERELATIONSHIP () FILTER () CROSSJOIN () I don't know yet ationships in your data model. Commonly this function is used
	Related Lecture: USERELATIONSHIP	
14.	Which of the following represents the two key types of table relations. (X) Active & Inactive () Primary & Secondary () Direct & Indirect () Physical & Virtual () I don't know yet Explanation: There are two key types of table relationships in Pocreated, and visible in your data model. Physical relationships can virtual relationships which are temporary relationships defined us Related Lecture: Physical vs. Virtual Relationships	() Active & Inactive () Primary & Secondary () Direct & Indirect (X) Physical & Virtual () I don't know yet wer BI: Physical and Virtual. Physical relationships are manually n be either active or inactive. They other type of relationship is sing DAX expressions
15.	Suppose you want to return a table of data that is filtered to conta accomplish this? (X) RELATEDTABLE () RELATED () CROSSJOIN () CALCULATE () I don't know yet Explanation: RELATEDTABLE allows you to return a related table filter condition(s) Related Lecture: RELATEDTABLE	(X) RELATEDTABLE () RELATED () CROSSJOIN () CALCULATE () I don't know yet

Iterator Functions Earned 0 of 1 points (0%).

	10.	single value or derive a new table?	ne same expression on every row or	a table in order to evaluate a
		(X) FILTER () SUMX () RANKX () All of the above () I don't know yet	() FILTER () SUMX () RANKX (X) All of the above () I don't know yet	
		Explanation: FILTER, SUMX, and RANKX are all examples of ite row of a table	erator functions that loop through the	same expression on every
		Related Lecture: Review: Basic Iterators		
Adva	nced T	ime Intelligence		Earned 3 of 3 points (100%).
	17.	Which of the following DAX functions would you use to specify da	te/time formatting?	
		() FIXED () CONVERT (X) FORMAT () None of the above () I don't know yet Explanation: The FORMAT function allows you to convert a value	() FIXED () CONVERT (X) FORMAT () None of the above () I don't know yet e to text in a specified format (i.e. "do	ldd", "mmm", "yyyy")
		Related Lecture: Date Formatting		
	18.	Which of the following is not a requirement of a date table? () Date tables must contain all the days for all the years represented in the fact table(s) () Date tables must contain at least one field set as a Date or DateTime data type () Date tables should not contain duplicate date or datetime values (X) Date tables must always start on January 1st () I don't know yet Explanation: If you import or create a date table in Power BI it must fact tables, must have at least one field set as a Data or DateTime if using a time component within a date column, all times must be Related Lecture: Date Table Requirements	e data type, cannot contain duplicate identical (i.e. 12:00)	st one field set as a Date or duplicate date or datetime on January 1st e years represented in your date or datetime values, and
	19.	Which of the following DAX functions is commonly used to calcular (X) DATESINPERIOD () DATEADD () PARALLELPERIOD () DATESBETWEEN () I don't know yet Explanation: DATESINPERIOD is commonly used to calculate run. Related Lecture: Common Time Intelligence Functions	(X) DATESINPERIOD () DATEADD () PARALLELPERIOD () DATESBETWEEN () I don't know yet	s?
Perf	ormance	e Tuning		Earned 1 of 1 points (100%).

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Time Used:	00:15:26	Final Score: 70%
	Related Lecture: Performance Analyzer	
	Explanation: The Performance analyzer is a na visual load times, and other components	tive tool within Power BI that provides insight in the performance of DAX queries,
	() I don't know yet	() I don't know yet
	() DAX Optimizer	() DAX Optimizer
	() VertiPaq Analyzer	() VertiPaq Analyzer
	(X) Performance Analyzer	(X) Performance Analyzer
	() Performance Optimizer	() Performance Optimizer

Which of the following tools lets you troubleshoot issues with measure load times and other DAX queries?

20.