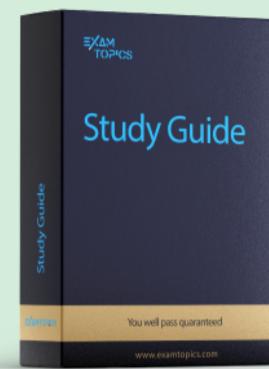




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## Topic 1 - Exam A

### Question #1

### Topic 1

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Data Infrastructure -

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Users frequently query the Synapse Analytics workspace by using Transact-SQL.

User Problems -

Contoso identifies the following user issues:

Some users indicate that the visuals in Power BI reports are slow to render when making filter selections.

Users indicate that queries against the serverless SQL pool fail occasionally because the size of tempdb has been exceeded.

Users indicate that the data in Power BI reports is stale. You discover that the refresh process of the Power BI model occasionally times out.

Planned Changes -

Contoso plans to implement the following changes:

Integrate an external data source in JSON that is accessible by using the REST API.

Build a new dataset in the FinData workspace by using data from the Synapse Analytics dedicated SQL pool.

Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.

Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to identify the root cause of the data refresh issue.

What should you use?

- A. the Usage Metrics Report in powerbi.com
- B. Query Diagnostics in Power Query Editor
- C. Performance analyzer in Power BI Desktop

**Correct Answer: B***Community vote distribution*

B (79%)

C (21%)

✉  **Az301301X**  11 months, 2 weeks ago

**Selected Answer: B**

Query Diagnostics will do the trick. "...you can use it to understand what sort of queries you're emitting, what slowdowns you might run into during authoring refresh..." <https://learn.microsoft.com/en-us/power-query/query-diagnostics>.

So, B.

upvoted 7 times

✉  **nbagchi**  1 year ago

Correct,

Query Diagnostics helps in understanding what Power Query is doing at authoring and at refresh time in Power BI Desktop.

upvoted 6 times

✉  **Deloro**  3 months, 2 weeks ago

i would also say B since its data refresh,  
performance analyzer is time of the visuals to refresh (and update)

upvoted 1 times

✉  **gerryboy** 4 months, 1 week ago

**Selected Answer: B**

will give all stats in Query diagnostics.

upvoted 1 times

✉  **hoss29** 5 months, 1 week ago

**Selected Answer: B**

Data refresh is the equivalent of data load, which is more upfront than loading visuals. Hence we need to use Query Diagnostics (answer B)

upvoted 1 times

✉  **Eltooth** 6 months, 3 weeks ago

**Selected Answer: B**

B is correct answer.

The question is asking why does the refresh fail not why does the report take a long time to load.

The PA will analyse where the bottleneck is.

Power Query Editor will tell you why the refresh is failing.

upvoted 2 times

✉  **Tranter** 6 months, 3 weeks ago

When you encounter slow rendering specifically during filter selections in Power BI reports, the Performance Analyzer tool is more suitable for identifying the root causes and optimizing performance. The Performance Analyzer helps you analyze the rendering time of visuals and components in your report, allowing you to pinpoint the specific areas that are causing the slowdown during filter selections. By using the Performance Analyzer, you can focus on optimizing those visuals or components to improve rendering performance.

On the other hand, Query Diagnostics in Power Query Editor is designed to analyze and optimize the performance of data loading and transformations within the Power Query Editor. It is more relevant when you want to troubleshoot and optimize the data loading process, rather than the rendering performance during filter selections.

so in the context of slow rendering during filter selections, the Performance Analyzer in Power BI Desktop is the recommended tool to use for identifying the root causes and optimizing performance.

upvoted 3 times

✉  **Qordata** 4 months ago

Question mentioned data refresh issues so your explanation for Query Diagnostics in Power Query Editor suits

upvoted 1 times

✉  **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: C**

I prefer C, B doesn't show info about interactions and metrics

upvoted 1 times

✉  **laureli** 10 months, 3 weeks ago

**Selected Answer: C**

Monitor report performance in Power BI Desktop using the Performance Analyzer. Monitoring will help you learn where the bottlenecks are, and how you can improve report performance.

Monitoring performance is relevant in the following situations:

Your Import data model refresh is slow.

Your DirectQuery or Live Connection reports are slow.

Your model calculations are slow.

upvoted 2 times

✉️ 🚩 **Tranter** 7 months, 1 week ago

C cannot be used to monitor Premium per user activities or capacity so will go with B

upvoted 1 times

✉️ 🚩 **laureli** 10 months, 3 weeks ago

<https://learn.microsoft.com/en-us/power-bi/guidance/monitor-report-performance>

upvoted 2 times

✉️ 🚩 **abain89** 11 months, 3 weeks ago

Should be C - Performance Analyzer

<https://learn.microsoft.com/en-us/power-bi/guidance/monitor-report-performance>

upvoted 4 times

✉️ 🚩 **KoryMills** 11 months ago

'It is asking for the 'root cause of the data refresh issue.' Not the visuals... so answer is not Performance Analyzer.

upvoted 1 times

✉️ 🚩 **JasonVu** 1 year ago

Got this on 12/08/2022

upvoted 2 times

## Question #2

## Topic 1

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Planned Changes -

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Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

Which two possible tools can you use to identify what causes the report to render slowly? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Synapse Studio
- B. DAX Studio
- C. Azure Data Studio
- D. Performance analyzer in Power BI Desktop

**Correct Answer: BD**

*Community vote distribution*

BD (100%)

✉  **nbagchi**  1 year ago

Correct,

Performance Analyzer is built into Power BI Desktop which is used first followed by DAX Studio which is an external tool to further dig deep down.  
upvoted 12 times

✉  **salvalcaraz**  3 weeks ago

Performance Analyzer provides information about the time each part of the report takes to finish, from rendering visuals to calculate DAX measures. DAX Studio allows you to go deeper in the analysis with the query you get from the Performance Analyzer tool.  
upvoted 1 times

✉  **Eltooth** 6 months, 3 weeks ago

**Selected Answer: BD**

B and D are correct answers.

upvoted 3 times

✉  **abain89** 11 months, 3 weeks ago

Correct

upvoted 3 times

## Question #3

## Topic 1

## DRAG DROP -

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Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to integrate the external data source to support the planned changes.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions****Answer Area**

Create an Apache Spark data source.

Merge columns.

Create a web data source.

Expand the attributes.

Publish the model.

**Answer Area**

Create a web data source.

**Correct Answer:**

Expand the attributes.

Publish the model.

✉ **Eltooth** 6 months, 2 weeks ago

Create  
Expand  
Publish  
upvoted 1 times

✉ **Eltooth** 6 months, 2 weeks ago

\* Create a web source  
upvoted 2 times

✉ **DarioReymago** 8 months, 3 weeks ago

is ok ok ok  
upvoted 1 times

✉ **Saffar** 11 months, 3 weeks ago

correct  
upvoted 3 times

✉ **nbagchi** 1 year ago

I believe this is the correct answer.  
For more info check this: <https://learn.microsoft.com/en-us/power-query/connectors/json#load-from-the-web>  
upvoted 4 times

## Question #4

## Topic 1

## DRAG DROP -

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Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to create Power BI reports that will display data based on the customers' subscription level.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions****Answer Area**

- Add members to row-level security (RLS) roles.
- Create row-level security (RLS) roles.
- Create a perspective.
- Enable bidirectional filtering.
- Create a DAX expression.



Answer Area	
<b>Correct Answer:</b>	<ul style="list-style-type: none"> <li>Create row-level security (RLS) roles.</li> <li>Create a DAX expression.</li> <li>Add members to row-level security (RLS) roles.</li> </ul>

✉️ **Saffar** 11 months, 3 weeks ago

this is correct  
upvoted 9 times

✉️ **DarioReymago** 8 months, 3 weeks ago

role  
add members  
dax  
upvoted 2 times

✉️ **Cococo** 7 months, 1 week ago

no no, DAX expression here is for the RLS filter, not the report yet, so it has to go after you click create a Role, the answer is - role - dax to filter - members  
upvoted 5 times

✉️ **Cococo** 7 months, 1 week ago

step 6 from here - <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-rls>  
upvoted 1 times

✉️ **taza31** 11 months, 1 week ago

Correct, bi directionnal is not needed  
upvoted 4 times

✉️ **abain89** 11 months, 3 weeks ago

Create row-level security (RLS) roles  
Create a DAX expression  
Enable bi-directional filtering  
upvoted 1 times

✉️ **Hongzu13** 9 months, 4 weeks ago

Why the heck do you want to add bi-directional filtering on this? This is something you do on data modeling....  
upvoted 1 times

✉️ **cherious** 12 months ago

The last step should be enabling bi-directional filtering.  
Since we are going to implement RLS based on customers' subscription level, we will use username() or userprincipalname(). After this there is no need to add members, the data will be filtered dynamically. Now we should enable apply bi-directional filtering.  
upvoted 3 times

✉️ **Fer079** 10 months, 2 weeks ago

When it says "Implement subscription levels for the customers", I think that it's related to static RLS, so we have to create one role for each level (for ex.: customer, manager, etc...), if this is the case then we don't have to enable the bi-directional filtering but we must to add members to each role.  
If you implement this solution using dynamic RLS, then we should enable it such as says this link:  
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-rls>

"Select this option when you've also implemented dynamic row-level security at the server level, where row-level security is based on username or login ID."

upvoted 2 times

✉ **stfglv** 11 months, 1 week ago

I disagree. As this link shows, even with dynamic roles for RLS it is still necessary to assign members/security group to the role:  
<https://www.acuitytraining.co.uk/news-tips/dynamic-row-level-security-in-power-bi/>

upvoted 1 times

✉ **nbagchi** 1 year ago

I think this may be correct. Although bi-directional filtering can be applied before adding members, I am pretty sure that is not a mandatory requirement.

Check out this link: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-rls#define-roles-and-rules-in-power-bi-desktop>

upvoted 2 times

✉ **Maazi** 1 year ago

I think the last step should be bi-directional filtering. AFAIK, adding members can only be on Power BI Service and not Desktop. Will be good to get other views/answers from the community too.

upvoted 1 times

**Question #5****Topic 1**

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Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution to add new fields to the financial data Power BI dataset with data from the Microsoft SQL Server data warehouse.

What should you include in the recommendation?

- A. Azure Purview
- B. an XMLA endpoint
- C. Site-to-Site VPN
- D. the on-premises data gateway

**Correct Answer: D***Community vote distribution*

D (100%)

**✉  Az301301X Highly Voted** 1 year ago

D is correct.

It seems that you need the gateway, as stated in this article:

<https://community.powerbi.com/t5/Power-Query/SQL-Server-hosted-on-Azure-VM-Do-I-need-a-Gateway/td-p/489761>

upvoted 9 times

**✉  cherious Highly Voted** 12 months ago**Selected Answer: D**

Since the data is located in Microsoft SQL Server DWH, we need on-premises data gateway.

upvoted 9 times

**✉  hoss29 Most Recent** 5 months, 1 week ago**Selected Answer: D**

On-prem gateway. A SQL Server database on Azure Virtual Machine is considered on-premises and needs a gateway, check it out here :

<https://radacad.com/the-power-bi-gateway-all-you-need-to-know>

upvoted 1 times

**✉  Eltooth** 6 months, 2 weeks ago**Selected Answer: D**

D is correct answer.

upvoted 1 times

**✉  LuukvdD** 7 months, 3 weeks ago

The source talks about a gateway, not an on-prem gateway. Azure VMs run in the cloud, what you would need is a gateway but not an on-prem gateway.

You use an On-prem gateway to transfer data between servers that are not in the cloud and servers that are. In this case, both are in the cloud.

[https://learn.microsoft.com/en-us/power-bi/connect-data/service-gateway-onprem?WT.mc\\_id=DP-MVP-5003635](https://learn.microsoft.com/en-us/power-bi/connect-data/service-gateway-onprem?WT.mc_id=DP-MVP-5003635)

upvoted 2 times

**✉  DarioReymago** 8 months, 3 weeks ago

D assuming that DWH or sql pool is on-premise and not cloud

upvoted 1 times

**✉  cookiemonster42** 10 months, 4 weeks ago

D is correct because dedicated SQL pool is also called data-warehouse so, on-premise gateway will be used to build power BI dataset.

upvoted 1 times

**✉  nbagchi** 1 year ago

I believe the correct answer is the XMLA endpoint.

Question mentions - 'Contoso has a 50-TB data warehouse that uses an instance of SQL Server on Azure Virtual Machines (imp)'. Since it's on Azure, we won't need an on-prem gateway. We can use a PowerShell cmdlet script to update the dataset.

upvoted 6 times

**✉  stfglv** 11 months ago

Apologies for constantly adding comments, but this just crossed my mind as well: XMLA endpoint is connected to a Premium capacity and the question scenario does not mention Premium at all.

upvoted 1 times

**✉  stfglv** 11 months, 1 week ago

I would normally agree if we look at things black vs white i.e. on-prem vs. cloud, here Azure, but as the link from Az301301X states, nothing is black and white and we do need a gateway.

upvoted 1 times

**✉  stfglv** 11 months, 1 week agoAnother confirmation (albeit from a completely different angle) can be found here as well: <https://community.powerbi.com/t5/Service/How-to-Install-on-premise-gateway-on-azure-virtual-machine/m-p/2419686>

upvoted 1 times

**Question #6****Topic 1**

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Contoso has one Power BI workspace named FinData that contains a single dataset. The dataset contains financial data from around the world. The workspace is used by 10 internal users and one external customer. The dataset has the following two data sources: the data warehouse and the Synapse Analytics serverless SQL pool.

Users frequently query the Synapse Analytics workspace by using Transact-SQL.

**User Problems -**

Contoso identifies the following user issues:

Some users indicate that the visuals in Power BI reports are slow to render when making filter selections.

Users indicate that queries against the serverless SQL pool fail occasionally because the size of tempdb has been exceeded.

Users indicate that the data in Power BI reports is stale. You discover that the refresh process of the Power BI model occasionally times out.

**Planned Changes -**

Contoso plans to implement the following changes:

Integrate an external data source in JSON that is accessible by using the REST API.

Build a new dataset in the FinData workspace by using data from the Synapse Analytics dedicated SQL pool.

Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.

Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

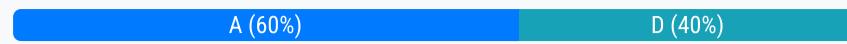
Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution to resolve the query issue of the serverless SQL pool. The solution must minimize impact on the users.

What should you do in the recommendation?

- A. Update the statistics for the serverless SQL pool.
- B. Move the data from the serverless SQL pool to a dedicated Apache Spark pool.
- C. Execute the sp\_set\_process\_data\_limit stored procedure for the serverless SQL pool.
- D. Move the data from the serverless SQL pool to a dedicated SQL pool.

**Correct Answer: D**

*Community vote distribution*

✉ **nbagchi** 1 year ago

Correct

upvoted 10 times

✉ **metii** 1 month, 3 weeks ago

**Selected Answer: A**

Using a dedicated SQL Pool or Apache Spark Pool will probably resolve the issue but they would have a huge impact on the user, you should consider that part of the question otherwise you are ignoring it completely. Updating the statistics might not be as miraculous as a dedicated SQL pool but it is done easily and has a minor if not no impact on the user.

upvoted 2 times

✉ **Omorinsola26** 2 months, 2 weeks ago

Updating statistics is required when there is a material change in the distribution of values for columns

upvoted 1 times

✉ **Hisayuki** 3 months, 3 weeks ago

**Selected Answer: D**

Dedicated SQL Pool

upvoted 2 times

✉ **Bridgi** 4 months, 2 weeks ago

**Selected Answer: D**

Dedicated SQL pool supports large amounts of data and complex queries.

upvoted 1 times

✉ **Dimitar1878** 4 months, 2 weeks ago

ChatPGT say Answer C:

C. Execute the sp\_set\_process\_data\_limit stored procedure for the serverless SQL pool.

The sp\_set\_process\_data\_limit stored procedure allows you to set a data limit for a single query. This can help prevent queries from exceeding the available resources and causing tempdb or other resource-related issues. By setting appropriate data limits, you can manage query execution and ensure more stable performance for the serverless SQL pool.

upvoted 2 times

✉ **ExamPage** 4 months, 4 weeks ago

Correct Answer is D - Move to dedicated SQL Pool.

Question says to minimize impact. There will definitely be impact on running processes in Stat is updated.

Read and see comments: <https://learn.microsoft.com/en-us/answers/questions/1340374/serverless-sql-is-not-clearing-the-tempdb-after-qu>

upvoted 2 times

✉ **Cattalin** 5 months, 3 weeks ago

**Selected Answer: A**

ChatGPT: To resolve the query issue of the serverless SQL pool in Azure Synapse Analytics while minimizing the impact on users, you should recommend option A: Update the statistics for the serverless SQL pool.

upvoted 1 times

✉ **PrudenceK** 6 months ago

**Selected Answer: D**

D. Move the data from the serverless SQL pool to a dedicated SQL pool.

upvoted 1 times

✉ **sgodd\_0298** 8 months ago

**Selected Answer: A**

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-statistics#statistics-in-serverless-sql-pool>

upvoted 1 times

✉ **DarioReymago** 8 months, 2 weeks ago

**Selected Answer: A**

I select A: change the source is not needed. I don't know the sp in C. So updating statistics is the best selection (for example sp\_drop\_statistics)

upvoted 2 times

✉ **LevaG** 9 months, 1 week ago

Option C is the correct solution to resolve the query issue of the serverless SQL pool while minimizing the impact on the users by ChatGPT. By executing the sp\_set\_process\_data\_limit stored procedure, the size of tempdb can be controlled, preventing it from being exceeded and causing queries to fail occasionally. This stored procedure limits the amount of data that can be processed by each query, and it can be set at the query level or the session level. This solution is more efficient and cost-effective compared to moving the data from the serverless SQL pool to a

dedicated SQL pool or Apache Spark pool. Updating statistics may improve query performance but it is not directly related to the tempdb size issue.

upvoted 2 times

✉ **NickWerbung** 9 months, 1 week ago

ChatGPT recommends:

1. Check the size of tempdb
2. Optimize queries
3. Monitor resource usage
4. Increase pool size
5. Consider dedicated SQL pool: If your workload requires more resources than the serverless SQL pool can provide, you may want to consider using a dedicated SQL pool.

upvoted 1 times

✉ **whinycarebear** 9 months, 1 week ago

Correct Answer is A but this is the correct link with explanations referring to serverless sql pool: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-statistics#statistics-in-serverless-sql-pool>

upvoted 1 times

✉ **HN\_3532** 10 months, 2 weeks ago

shouldn't answer be A?

"How to understand the Tempdb Usage and what are ways to fix this :

Ensure table statistics are created and kept up to date. "

<https://www.linkedin.com/pulse/what-making-azure-synapse-dw-dedicated-pool-tempdb-reaching-mishra/>

upvoted 1 times

✉ **manolet** 8 months, 4 weeks ago

Read question carefully. They are asking about serverless pool, not dedicated.

upvoted 1 times

## Question #7

## Topic 1

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To start the case study -

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Overview -

Contoso, Ltd. is a company that sells enriched financial data to a variety of external customers.

Contoso has a main office in Los Angeles and two branch offices in New York and Seattle.

Existing Environment -

Data Infrastructure -

Contoso has a 50-TB data warehouse that uses an instance of SQL Server on Azure Virtual Machines.

The data warehouse populates an Azure Synapse Analytics workspace that is accessed by the external customers. Currently, the customers can access all the data.

Contoso has one Power BI workspace named FinData that contains a single dataset. The dataset contains financial data from around the world. The workspace is used by 10 internal users and one external customer. The dataset has the following two data sources: the data warehouse and the Synapse Analytics serverless SQL pool.

Users frequently query the Synapse Analytics workspace by using Transact-SQL.

User Problems -

Contoso identifies the following user issues:

Some users indicate that the visuals in Power BI reports are slow to render when making filter selections.

Users indicate that queries against the serverless SQL pool fail occasionally because the size of tempdb has been exceeded.

Users indicate that the data in Power BI reports is stale. You discover that the refresh process of the Power BI model occasionally times out.

Planned Changes -

Contoso plans to implement the following changes:

Integrate an external data source in JSON that is accessible by using the REST API.

Build a new dataset in the FinData workspace by using data from the Synapse Analytics dedicated SQL pool.

Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.

Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution for the customer workspace to support the planned changes.

Which two configurations should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Publish the financial data to the web.
- B. Configure the FinData workspace to use a Power BI Premium capacity.
- C. Grant the Build permission for the financial data to each customer.
- D. Set Use datasets across workspaces to Enabled.

**Correct Answer: BD**

*Community vote distribution*

CD (86%)

14%

✉  **nbagchi**  1 year ago

I think correct answer is C,D

Question mentions- 'Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.' Since customers will create their own reports, they will need access to the underlying dataset, so Build permissions will have to be provided.

upvoted 11 times

✉  **Cococo** 7 months, 1 week ago

Agree - CD - "When you create a report in Power BI Desktop, the data in that report is stored in a data model. When you publish a report to the Power BI service, the data model is also published to the service as a dataset at the same time. When you share the report with others, you can give them Build permission for the dataset that the report is built on, so they can discover and reuse it for their own reports, dashboards, etc."

upvoted 2 times

✉  **dev2dev**  8 months ago

**Selected Answer: AB**

A and B

Requirement is to make findata available for everyone.

upvoted 1 times

✉  **DarioReymago** 8 months, 2 weeks ago

**Selected Answer: CD**

correct answer is C,D

upvoted 1 times

✉  **NickWerbung** 9 months, 1 week ago

I think it is B and D.

Don't they all need at least a power bi pro licence in order to read the data / and share it?

In order to share it with users with free licenses, designers need to publish that content to a group workspace backed by a Premium capacity. Premium capacity provides the benefit of unlimited content sharing.

Is it really possible to "set use datasets across workspaces to Enabled"? Where is that option.

upvoted 2 times

✉  **Lesucks** 8 months ago

<https://learn.microsoft.com/en-us/power-bi/connect-data/service-datasets-admin-across-workspaces>

upvoted 1 times

✉  **MaxExams** 11 months ago

I think the answer is BD

"You discover that the refresh process of the Power BI model occasionally times out"

For Power BI Pro workspaces, data refreshes must complete in less than 2 hours. On Premium, the limit is 5 hours so B would a solution.

They are now going to provide customers access to their own workspace (meaning they haven't already) Hence D - "Use Datasets across workspaces" needs to be enabled.

People do not build permission, but looking at the question, they seem to already have this access so it isn't something that would be included in the solution which is what the question is asking.

upvoted 3 times

✉  **MaxExams** 11 months ago

People do need\* build permissions

upvoted 1 times

✉  **taza31** 11 months, 1 week ago

correct answer is C,D

upvoted 3 times

✉  **Az301301X** 12 months ago

**Selected Answer: CD**

I agree. I would go for C and D.

upvoted 2 times

✉  **Saffar** 12 months ago

**Selected Answer: CD**

it should be C,D

upvoted 3 times

✉  **Saffar** 12 months ago

it should be C,D

upvoted 2 times

 **MICC** 1 year ago

I believe it should be C,D,

In PBI Admin portal, Tenant settings --> Workspace settings --> Use datasets across workspaces

it requires users have the required Build permission when enabling "use datasets across workspaces"

upvoted 4 times

## Question #8

## Topic 1

**HOTSPOT -**

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**Overview -**

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Contoso has a main office in Los Angeles and two branch offices in New York and Seattle.

**Existing Environment -****Data Infrastructure -**

Contoso has a 50-TB data warehouse that uses an instance of SQL Server on Azure Virtual Machines.

The data warehouse populates an Azure Synapse Analytics workspace that is accessed by the external customers. Currently, the customers can access all the data.

Contoso has one Power BI workspace named FinData that contains a single dataset. The dataset contains financial data from around the world. The workspace is used by 10 internal users and one external customer. The dataset has the following two data sources: the data warehouse and the Synapse Analytics serverless SQL pool.

Users frequently query the Synapse Analytics workspace by using Transact-SQL.

**User Problems -**

Contoso identifies the following user issues:

Some users indicate that the visuals in Power BI reports are slow to render when making filter selections.

Users indicate that queries against the serverless SQL pool fail occasionally because the size of tempdb has been exceeded.

Users indicate that the data in Power BI reports is stale. You discover that the refresh process of the Power BI model occasionally times out.

**Planned Changes -**

Contoso plans to implement the following changes:

Integrate an external data source in JSON that is accessible by using the REST API.

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Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.

Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to build a Transact-SQL query to implement the planned changes for the internal users.

How should you complete the Transact-SQL query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
DECLARE @model varbinary(max) = (
    SELECT native_model_object
    FROM ml_models
    WHERE model_name = 'rxLinMod'
    AND model_version = 'v1');
SELECT d.*, p.*
FROM [ ] ▼ (MODEL = @model, DATA = dbo.rx_linMod as lm)
    EVALUATE
    PIVOT
    PREDICT
    SCORE

go [ ] ▼ (model_outcome float, trade_volume float, price_Pred float) as p;
    AS
    CONTAINS
    FROM
    GROUP BY
    WITH
```

## Answer Area

### Correct Answer:

```
DECLARE @model varbinary(max) = (
    SELECT native_model_object
    FROM ml_models
    WHERE model_name = 'rxLinMod'
    AND model_version = 'v1');
SELECT d.*, p.*
FROM [ ] ▼ (MODEL = @model, DATA = dbo.rx_linMod as lm)
    EVALUATE
    PIVOT
    PREDICT
    SCORE

go [ ] ▼ (model_outcome float, trade_volume float, price_Pred float) as p;
    AS
    CONTAINS
    FROM
    GROUP BY
    WITH
```

nbagchi 1 year ago

Correct

upvoted 8 times

MohsenSic 5 months, 4 weeks ago

there is no d in the query, and d.\* should be ml.\* see here <https://learn.microsoft.com/en-us/sql/t-sql/queries/predict-transact-sql?view=sql-server-ver16>

upvoted 3 times

dev2dev 8 months ago

that Go keyword is mispaced it seems

upvoted 1 times

DarioReymago 8 months, 2 weeks ago

coooooorect!

upvoted 1 times

Imoleayo 11 months, 1 week ago

Predict.,with

upvoted 3 times

stfglv 11 months, 1 week ago

Good association: WITH --> determining data type or other ways to define data scheme

upvoted 1 times

## Question #9

## Topic 1

## DRAG DROP -

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## To start the case study -

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## Overview -

## Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

## Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

## Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

## Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

## Requirements -

### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to create the customized Power BI usage reporting. The Usage Metrics Report dataset has already been created. The solution must minimize development and administrative effort.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

From powerbi.com, create a new report from the Usage Metrics Report dataset in the Sales Analytics workspace.

From Power BI Desktop, open the **Usage Metrics Report** dataset in the Sales Analytics workspace.

Request access to the Power BI audit logs.

Add visuals to the report.

Add a report measure.

Publish the report to the Sales Analytics workspace.



**Answer Area**

From powerbi.com, create a new report from the Usage Metrics Report dataset in the Sales Analytics workspace.

**Correct Answer:**

Add a report measure.

Add visuals to the report.

Publish the report to the Sales Analytics workspace.

✉  **Ndz**  1 year ago

Pretty sure you can't create a measure in PBI Service yeah?

upvoted 12 times

✉  **Bob5379**  1 year ago

should use Power BI Desktop to create measure

upvoted 9 times

✉  **stfglv** 11 months, 1 week ago

Additionally, if the first step is done in PBI service and so are the consequent two, than the last step to publish it would make no sense considering you never downloaded it to PBI Desktop and made any changes there. In short, the first step is definetly done in PBI Desktop.

upvoted 2 times

✉  **Deloro**  3 months, 2 weeks ago

seems correct:

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

so measure needs to be created (can do that only in desktop)

add to visuals

publish

upvoted 1 times

✉  **SamuComqi** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- From Power BI Desktop, open the Usage Metrics Report dataset in the Sales Analytics workspace
- Add a report measure
- Add visuals to the report
- Publish the report to the Sales Analytics workspace

upvoted 6 times

✉  **Etooth** 6 months, 1 week ago

PBI Desktop

Add measure

Add visuals

Publish

upvoted 3 times

✉  **AlanMont** 6 months, 3 weeks ago

We need to start with Power BI Desktop. We can check this in the second option of this documentation. <https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-usage-metrics#about-the-usage-metrics-report>

"Connect to the dataset from Power BI Desktop."

upvoted 2 times

✉  **DarioReymago** 8 months, 2 weeks ago

it said the metrics has already done, in fact is not necesary create it. but with these options:

from PBI descktop

add report measures (it already exist, is not necesary)

add visuals

publish

upvoted 2 times

✉  **JuLio82** 10 months, 1 week ago

it was on my exam, there is only the Power Bi desktop option

upvoted 3 times

✉  **taza31** 11 months, 1 week ago

For me

1. from PBI Desktop open the dataset 2. add measure 3. add visuals 4. publish

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-usage-metrics>

Connect to the dataset from Power BI Desktop. For every workspace, the dataset has the name "Report Usage Metrics Model." See Establish a connection to a published dataset for details.

upvoted 4 times

✉  **stfglv** 11 months, 1 week ago

Based on other comments re. creating measure exclusively in PBID (which are correct) the answer sequence should be 1. from PBI Desktop open the dataset 2. add measure 3. add visuals 4. publish

upvoted 1 times

✉  **moreinva43** 12 months ago

A measure can not be created in Power Bi service. <https://community.powerbi.com/t5/Service/How-to-create-a-new-measure-in-Power-bi-service/td-p/2249943>

upvoted 4 times

✉  **JasonVu** 1 year ago

Correct Answer

upvoted 3 times

## Question #10

## Topic 1

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An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

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dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
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SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being

created. The records do NOT change after three days.

#### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

#### Requirements -

##### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

##### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

##### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to configure the Sales Analytics workspace to meet the ad hoc reporting requirements.

What should you do?

- A. Grant the sales managers the Build permission for the existing Power BI datasets.
- B. Grant the sales managers admin access to the existing Power BI workspace.
- C. Create a deployment pipeline and grant the sales managers access to the pipeline.
- D. Create a PBIT file and distribute the file to the sales managers.

#### Correct Answer: D

##### Community vote distribution



Bob5379 Highly Voted 1 year ago

A is Correct, Template file will require data loading and will lead to separate Power BI dataset and reports. To minimize the effort, should give users build access to existing dataset.

upvoted 12 times

cherious 12 months ago

Totally agree

upvoted 3 times

Saffar Highly Voted 11 months, 3 weeks ago

Selected Answer: A

I think it should be "A". Build permission for the existing Power BI datasets. This will reduce the effort for managers, more secure than template which will lead to different dataset/refresh cycle, etc. They can create their own reports from same dataset and have nothing to do with allowing them to change the dataset or any other reports.

upvoted 8 times

 **TheSwedishGuy** Most Recent 2 months ago

ChatGPT says A

upvoted 1 times

 **SamuComqi** 4 months, 2 weeks ago

Selected Answer: A

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was "Grant the sales managers the Build permission for the existing Power BI datasets."

upvoted 3 times

 **MohsenSic** 5 months, 4 weeks ago

Selected Answer: A

I think A is the correct one and the next step is azure synapse is <https://techcommunity.microsoft.com/t5/educator-developer-blog/how-to-connect-azure-synapse-to-power-bi-for-data-visualization/ba-p/3614555>

upvoted 1 times

 **PrudenceK** 6 months ago

Selected Answer: C

By creating a deployment pipeline, you can establish a controlled and standardized process for promoting Power BI content from the development environment to the test and production workspaces. Granting the sales managers access to the pipeline allows them to deploy their own ad hoc reports while adhering to the development process requirements. This ensures that the reports go through the proper testing and production stages.

upvoted 1 times

 **asyia** 7 months, 2 weeks ago

Correct Answer :

C. Create a deployment pipeline and grant the sales managers access to the pipeline.

Explanation:

Creating a deployment pipeline is a recommended approach to deploy Power BI content to different environments, such as the test and production workspaces. By setting up a deployment pipeline, you can ensure a standardized and automated process for deploying Power BI reports and dashboards. Granting sales managers access to the pipeline allows them to initiate and manage the deployment of Power BI content themselves, enabling ad hoc reporting with minimal effort. This empowers sales managers to access the necessary reports and perform ad hoc analysis as per their requirements, without needing direct access to the development or production workspaces.

upvoted 2 times

 **DarioReymago** 8 months, 2 weeks ago

Selected Answer: A

I will set Admin role to Manager and readers for the rest to avoid other edit or modify reports

upvoted 1 times

 **DarioReymago** 8 months, 2 weeks ago

Sorry answer B

upvoted 2 times

 **GHill1982** 8 months, 3 weeks ago

Selected Answer: A

I agree that A is the correct answer

upvoted 1 times

 **solref** 9 months, 1 week ago

Selected Answer: A

The requirement is regarding to the "workspace" so, it clearly the "A". Building permission allow them to create reports without affecting the previous one and you could avoid additional effort.

Link : <https://learn.microsoft.com/en-us/power-bi/connect-data/service-datasets-build-permissions>

upvoted 3 times

 **Review66** 10 months ago

I would choose A

upvoted 2 times

 **Az301301X** 12 months ago

Selected Answer: D

It says: "Sales managers must be prevented from modifying reports created by other users." So, a PBIT (...a template) would do the trick. So, D.

upvoted 6 times

 **cookiemonster42** 10 months, 4 weeks ago

1. Using the Build feature, users would still be creating their own separate reports and individual reports will be unaffected.

2. Business requirements says a single imported dataset will be used and refreshed every 30 minutes.

3. For ad-hoc reporting, it is not recommended to distribute pbit files among all a long lisy of users.

Hence, Build permissions is the most feasible answer I can think of.

upvoted 2 times

 **you5uf** 1 year ago

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

The feasibility Says PBIT to comply with 1st point

upvoted 3 times

 **nbagchi** 1 year ago

Correct

Check this link for more info: <https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-templates>

upvoted 4 times

## Question #11

## Topic 1

## DRAG DROP -

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At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

## To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

## Overview -

## Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

## Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

## Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

## Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

## Requirements -

### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

## Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

## Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to implement object-level security (OLS) in the Power BI dataset for the sales associates.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

From Power BI Desktop, publish the dataset to the Sales Analytics workspace.

From Power BI Desktop, add a table filter to the role.

From Power BI Desktop, create a role for the sales associates.

From Tabular Editor, set Object Level Security to **None** for the Customer[Email] column and save the changes.

From Tabular Editor, set Object Level Security to **None** for the Customer table and save the changes.



**Answer Area**

From Power BI Desktop, create a role for the sales associates.

**Correct Answer:**

From Tabular Editor, set Object Level Security to **None** for the Customer[Email] column and save the changes.

From Power BI Desktop, publish the dataset to the Sales Analytics workspace.

 **nbagchi** Highly Voted 1 year ago

Correct

For more info check: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-ols?tabs=table>

upvoted 13 times

 **Lolus** Most Recent 4 months, 2 weeks ago

It should be-

- 1.Create a role
  2. Add a table and filter
  - 3.Set OLS to None for Customer Email column
- Why are we skipping the add table and filter stage?

upvoted 1 times

 **DarioReymago** 8 months, 2 weeks ago

correctcorrect

upvoted 2 times

 **DarioReymago** 8 months, 2 weeks ago

but I will publish the report, not the dataset

upvoted 1 times

 **solref** 9 months, 1 week ago

it is OK :)

upvoted 1 times

 **solref** 9 months, 1 week ago

It is right !

upvoted 1 times

 **Hongzu13** 9 months, 4 weeks ago

It's the only logical sequence to perform that action. The answer is correct.

upvoted 1 times

 **stfglv** 11 months, 1 week ago

correct. For more info check: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-ols?tabs=table>

upvoted 1 times

## Question #12

## Topic 1

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

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At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview -

Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

### Requirements -

#### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to recommend a solution to ensure that sensitivity labels are applied. The solution must minimize administrative effort.

Which three actions should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. From the Power BI Admin portal, set Allow users to apply sensitivity labels for Power BI content to Enabled.
- B. From the Power BI Admin portal, set Apply sensitivity labels from data sources to their data in Power BI to Enabled.
- C. In SQLDW, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables.
- D. In the Power BI datasets, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables.
- E. From the Power BI Admin portal, set Make certified content discoverable to Enabled.

**Correct Answer: ADE**

*Community vote distribution*

ABC (100%)

  cherious  1 year ago

**Selected Answer: ABC**

ABC is correct.

D - you can't apply sensitivity labels to columns in power bi dataset

E - certification has nothing to do with sensitivity

upvoted 13 times

  MohsenSic 5 months, 4 weeks ago

In the Power BI service, sensitivity labels can be applied to datasets, reports, dashboards, and dataflow. <https://learn.microsoft.com/en-us/power-bi/enterprise/service-security-sensitivity-label-overview#introduction>

upvoted 2 times

□  **DarioReymago** 8 months, 2 weeks ago

c - sensitive label cannot be applied in SQL  
upvoted 3 times

□  **fdsdfgxcvbdsfhshfg** 8 months, 1 week ago

Azure SQL provides a feature called "Data Classification" that allows you to apply sensitivity labels to your data. Data Classification allows you to discover, classify, label, and report on sensitive data in your Azure SQL databases.

To apply sensitivity labels in Azure SQL, you need to follow these steps:

Enable the Data Discovery & Classification feature in Azure SQL.

Create a sensitivity label or use an existing one that aligns with your data classification requirements.

Apply the sensitivity label to the database or tables in the Azure SQL instance.

Use the sensitivity labels to control access to sensitive data, monitor and audit access to sensitive data, and apply data protection policies.

By applying sensitivity labels to your data in Azure SQL, you can ensure that sensitive data is identified, classified, and protected. This can help you comply with various data protection regulations and protect your organization from data breaches.

<https://learn.microsoft.com/en-us/azure/azure-sql/database/data-discovery-and-classification-overview?view=azuresql>

upvoted 1 times

□  **KWaleed**  1 year ago

D cannot be true, as Power BI allows to apply just one label to the entire dataset/report. We can't apply a label to each table inside the PBI dataset  
upvoted 6 times

□  **KWaleed** 1 year ago

It should be A, B, C  
upvoted 6 times

□  **SamuComqi**  4 months, 2 weeks ago

**Selected Answer: ABC**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- From the Power BI Admin portal, set Allow users to apply sensitivity labels for Power BI content to Enabled.
- From the Power BI Admin portal, set Apply sensitivity labels from data sources to their data in Power BI to Enabled.
- In SQLDW, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables.

upvoted 3 times

□  **AlanMont** 6 months, 3 weeks ago

**Selected Answer: ABC**

A- <https://learn.microsoft.com/pt-br/power-bi/enterprise/service-security-enable-data-sensitivity-labels#enable-sensitivity-labels>

B- <https://learn.microsoft.com/pt-br/power-bi/admin/service-admin-portal-information-protection#apply-sensitivity-labels-from-data-sources-to-their-data-in-power-bi-preview>

C- <https://learn.microsoft.com/pt-br/azure/purview/create-sensitivity-label#benefits-of-labeling-in-microsoft-purview>

upvoted 1 times

□  **MahiDebo** 9 months, 2 weeks ago

- A. From the Power BI Admin portal, set Allow users to apply sensitivity labels for Power BI content to Enabled. This will allow users to apply sensitivity labels to their reports and datasets.
- B. From the Power BI Admin portal, set Apply sensitivity labels from data sources to their data in Power BI to Enabled. This will ensure that any sensitivity labels applied to the data source will be carried over to the Power BI content.
- C. In the Power BI datasets, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables. This will ensure that the sensitivity labels are applied to the specific columns within the Power BI dataset.

Therefore, the correct actions to include in the recommendation are A, B, and D.

Option C is incorrect because sensitivity labels should be applied in Power BI, not in SQLDW. Option E is also incorrect as it is not related to sensitivity labels.

upvoted 1 times

□  **manolet** 8 months, 4 weeks ago

You can't apply sensitivity labels to columns  
upvoted 2 times

□  **Review66** 10 months ago

A, B, D.  
C is not correct because sensitive label cannot be applied in SQL db  
E is for certify datasets not for labeling.  
upvoted 1 times

□  **fdsdfgxcvbdsfhshfg** 8 months, 1 week ago

<https://learn.microsoft.com/en-us/sql/t-sql/statements/add-sensitivity-classification-transact-sql?view=sql-server-ver16>  
upvoted 1 times

✉️  **dera23** 10 months, 3 weeks ago

A, B and E is the correct answer. You cannot apply labels to columns.

upvoted 1 times

✉️  **cookiemonster42** 10 months, 4 weeks ago

A, D and E

upvoted 1 times

✉️  **cookiemonster42** 10 months, 3 weeks ago

Changed my mind it's A, B and D

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-security-apply-data-sensitivity-labels>

upvoted 1 times

✉️  **nbagchi** 1 year ago

Not sure.

Since the requirement mentions reducing administrative efforts, I would have thought that inheritance from data sources makes more sense. I would have selected B,C,E maybe.

Check here: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-security-sensitivity-label-inheritance-from-data-sources>

upvoted 4 times

## Question #13

## Topic 1

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Overview -

Existing environment -

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Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
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dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

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CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

### Requirements -

#### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

How should you configure the Power BI dataset refresh for the dbo.SalesTransactions table?

- A. an incremental refresh of Product where the ModifiedDate value is during the last three days.
- B. an incremental refresh of dbo.SalesTransactions where the SalesDate value is during the last three days.
- C. a full refresh of all the tables
- D. an incremental refresh of dbo.SalesTransactions where the SalesDate value is during the last hour.

#### Correct Answer: B

Community vote distribution

B (100%)

 **nbagchi**  1 year ago

Correct

Company requirements stated 'Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.'

upvoted 7 times

 **SamuComqi**  4 months, 2 weeks ago

 Selected Answer: B

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was "an incremental refresh of dbo.SalesTransactions where the SalesDate value is during the last three days."

upvoted 2 times

 **DarioReymago** 8 months, 2 weeks ago

 Selected Answer: B

it is BBB

upvoted 2 times

✉️ **robinHH** 10 months, 4 weeks ago

I would agree. But the easiest sol

upvoted 1 times

✉️ **robinHH** 10 months, 4 weeks ago

ution would be to do the full-load

upvoted 1 times

## Question #14

## Topic 1

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To start the case study -

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Overview -

Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

### Requirements -

#### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

What should you configure in the deployment pipeline?

- A. a selective deployment
- B. auto-binding
- C. a backward deployment
- D. a data source rule

#### Correct Answer: D

Community vote distribution

D (100%)

✉️  **olgx** 3 months, 2 weeks ago

**Selected Answer: D**

D is the proper answer  
upvoted 1 times

✉️  **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: D**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was "a data source rule"  
upvoted 1 times

✉️  **Samuel77** 6 months ago

D is correct  
upvoted 1 times

✉️  **TSalmanov** 6 months, 4 weeks ago

D is correct. As it is mentioned in the case study ALL entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace. --> we need to set up data source rule in order for data source entity not stay the same as in development environment but changed to the production environment. Step 5 - create deployment rules <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-get-started#step-5---create-deployment-rules-optional>

upvoted 4 times

✉ **fdsgxvbdshfg** 8 months, 1 week ago

None of these are correct.

We need a linked service in Synapse Studio to actually develop reports there

upvoted 1 times

✉ **DarioReymago** 8 months, 2 weeks ago

is DDDD

upvoted 1 times

✉ **moreinva43** 12 months ago

I read the article, why is it not selective deployment, where we can pick which ones we want to deploy?

upvoted 1 times

✉ **ivanb94** 12 months ago

Because the requirement states that: Once feature development is complete, ALL entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace. --> if all will be promoted, selective deployment would not make sense

upvoted 4 times

✉ **nbagchi** 1 year ago

I think it's correct

Check this for more info: <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-get-started#step-4---create-deployment-rules>

upvoted 3 times

## Question #15

## Topic 1

**HOTSPOT -**

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At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

**To start the case study -**

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

**Overview -****Existing environment -**

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

**Azure Resources -**

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

**Dedicated SQL Pool -**

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analysts are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

### Requirements -

#### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to populate the CustomersWithProductScore table.

How should you complete the stored procedure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

```
DECLARE @model [BIT] = (
    SELECT model
    FROM MLModel
    WHERE model_name = 'PredictPurchase'
);

INSERT INTO CustomersWithProductScore (
    CustomerID,
    CustomerEmail,
    ProductID,
    ProductName,
    Score
)
SELECT d.CustomerID,
    d.CustomerEmail,
    d.ProductID,
    d.ProductName,
    p.score
FROM PREDICT(MODEL = @model, DATA = [dbo].[CustomerPurchases] AS d)
    WITH (score FLOAT) AS p;
```

### Answer Area

Correct Answer:

```
DECLARE @model [FLOAT] = (
    SELECT model
    FROM MLModel
    WHERE model_name = 'PredictPurchase'
);

INSERT INTO CustomersWithProductScore (
    CustomerID,
    CustomerEmail,
    ProductID,
    ProductName,
    Score
)
SELECT d.CustomerID,
    d.CustomerEmail,
    d.ProductID,
    d.ProductName,
    p.score
FROM PREDICT(MODEL = @model, DATA = [dbo].[CustomerPurchases] AS d)
    WITH (score FLOAT) AS p;
```

 **Bob5379**  1 year ago

VARBINARY(MAX)  
CustomPurchases

To generate predict with model, the input data should come from customer purchase history.  
<https://learn.microsoft.com/en-us/sql/t-sql/queries/predict-transact-sql?preserve-view=true&view=azure-sqldw-latest>  
 upvoted 25 times

 **dev2dev** 8 months ago

Just a typo, its CustomerPurchases (its a view as per the question)

upvoted 1 times

✉  **DarioReymago** 9 months, 4 weeks ago

I'm agree

upvoted 1 times

✉  **eekman**  11 months, 1 week ago

VARBINARY(MAX) as models are stored as binary: <https://learn.microsoft.com/en-us/sql/t-sql/queries/predict-transact-sql?view=sql-server-ver16#combining-predict-with-an-insert-statement>

CustomersWithProductScore: the only table that contains all columns listed as 'd'

upvoted 6 times

✉  **Cococo** 7 months, 1 week ago

there is a view with all these 4 columns under D alias - "SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName]"

upvoted 3 times

✉  **SamuComqi**  4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- VARBINARY(max)
- dbo.CustomerPurchases

upvoted 4 times

✉  **solref** 9 months, 1 week ago

VARBINARY(MAX) : this data type holds variable-length binary data. Use this type when the data is expected to vary in size.

CustomPurchases: It is the only with the data required and you can not insert data in a table from the same table, it doesn't have sense

<https://learn.microsoft.com/en-us/sql/t-sql/queries/predict-transact-sql?view=sql-server-ver16>

upvoted 3 times

✉  **BitwiseLS** 11 months ago

The column Score is coming from the model, not the SQL View.

So the view is CustomPurchases.

By the way CustomersWithProductScore is populated in the SQL statement, so better not to read from it as well.

upvoted 4 times

✉  **taza31** 11 months, 1 week ago

VARBINARY(MAX)

CustomPurchases

upvoted 4 times

✉  **Saffar** 11 months, 4 weeks ago

I think the answer is correct.

The ML Model output is float,

and the field listed for customerID, Email, productName and score are listed in the case study under dbo.CustomersWithProductScore

upvoted 3 times

✉  **AshwinN1992** 12 months ago

Please anyone confirm

upvoted 1 times

✉  **AshwinN1992** 12 months ago

Please comment

upvoted 1 times

✉  **AshwinN1992** 12 months ago

why custompurchases? It should be productscore

upvoted 3 times

## Question #16

## Topic 1

## HOTSPOT -

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## Overview -

## Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

## Azure Resources -

Litware has the following Azure resources:

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An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

## Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
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The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

### Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

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IT data analysts are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

### Requirements -

#### Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to create a measure to count orders for the market basket analysis.

How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

BasketsWithProducts =

VAR CountBaskets =

SUMX (SUMMARIZE ( Sales,

Customer[CustomerKey]  
SalesTransactions[CustomerKey]  
SalesTransactions[Order Number]  
SalesTransactions[ProductKey]

), 1)

VAR BasketsWithAndProducts =

CALCULATE(  
CALCULATABLE(  
INTERSECT(  
KEEPFILTERS(

SUMMARIZE ( SalesTransactions, SalesTransactions[OrderNumber] ),  
REMOVEFILTERS ( 'Product' ),  
REMOVEFILTERS ( SalesTransactions[ProductKey] ),  
USERELATIONSHIP ( SalesTransactions[ProductKey], 'And Product' [And ProductKey] )

)

VAR BasketsWithBothProducts =

CALCULATE ( [CountBaskets], KEEPFILTERS ( BasketsWithAndProducts ) )

VAR RemoveEmpty =

IF (  
ISEMPTY (

CALCULATETABLE(  
CROSSJOIN(  
INTERSECT(  
KEEPFILTERS(

DISTINCT ( 'Product' [ProductKey] ),  
DISTINCT ( 'And Product' [And ProductKey] )

)

),  
[BasketsWithBothProducts]

)

RETURN

RemoveEmpty

**Answer Area**

```
BasketsWithProducts =
VAR CountBaskets =
    SUMX (SUMMARIZE ( Sales,
        Customer[CustomerKey]
        SalesTransactions[CustomerKey]
        SalesTransactions[Order Number]
        SalesTransactions[ProductKey]
    ), 1)
```

```
VAR BasketsWithAndProducts =
```

```
CALCULATE(
    CALCULATABLE()
    INTERSECT()
    KEEPFILTERS()
```

```
SUMMARIZE ( SalesTransactions, SalesTransactions[OrderNumber] ),
REMOVEFILTERS ( 'Product' ),
REMOVEFILTERS ( SalesTransactions[ProductKey] ),
USERELATIONSHIP ( SalesTransactions[ProductKey], 'And Product' [And ProductKey] )
```

```
)
```

```
VAR BasketsWithBothProducts =
    CALCULATE ( [CountBaskets], KEEPFILTERS ( BasketsWithAndProducts ) )
```

```
VAR RemoveEmpty =
```

```
IF (
    ISEMPTY (
```

```
CALCULATETABLE(
    CROSSJOIN()
    INTERSECT()
    KEEPFILTERS()
```

```
DISTINCT ( 'Product' [ProductKey] ),
DISTINCT ( 'And Product' [And ProductKey] )
```

```
)
```

```
),
[BasketsWithBothProducts]
```

```
)
```

```
RETURN
```

```
RemoveEmpty
```

**Correct Answer:**

**moreinva43** 11 months, 3 weeks ago

This is a very similar example. <https://www.daxpatterns.com/basket-analysis/#:~:text=The%20Basket%20analysis%20pattern%20builds,the%20name%20of%20this%20pattern.>

upvoted 10 times

**stfgiv** 11 months, 1 week ago

and it confirms the that the provided answer is correct. Thanks for the link!

upvoted 3 times

**hoss29** 5 months ago

Correct. I have a little doubt though as per the last variable RemoveEmpty, shouldn't be 'NOT IS EMPTY' in lieu of 'ISEMPTY' ? so when it returns True, the variable will return the [BasketsWithBothProducts]

upvoted 1 times

**fdsdfgxcvbdsfhshfg** 8 months ago

is RemoveEmpty really necessary?

upvoted 2 times

**DarioReymago** 9 months, 4 weeks ago

is correct

upvoted 1 times

**AshwinN1992** 12 months ago

Is this correct ?

upvoted 3 times

## Question #17

## Topic 1

You have a Power BI tenant.

You plan to register the tenant in an Azure Purview account.

You need to ensure that you can scan the tenant by using Azure Purview.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. From the Microsoft 365 admin center, create a Microsoft 365 group.
- B. From the Power BI Admin center, set Allow live connections to Enabled.
- C. From the Power BI Admin center, set Allow service principals to use read-only Power BI admin APIs to Enabled.
- D. From the Azure Active Directory admin center, create a security group.
- E. From the Power BI Admin center, set Share content with external users to Enabled.

**Correct Answer:** CD

*Community vote distribution*

CD (100%)

✉️  **JasonVu**  1 year ago

Answer is correct. Reference: <https://learn.microsoft.com/en-us/azure/purview/register-scan-power-bi-tenant?tabs=Scenario1>  
upvoted 12 times

✉️  **eekman**  11 months, 1 week ago

**Selected Answer: CD**

Correct

upvoted 6 times

✉️  **Eltooth**  7 months ago

**Selected Answer: CD**

C and D are correct.

<https://learn.microsoft.com/en-us/azure/purview/register-scan-power-bi-tenant?tabs=Scenario1#scan-same-tenant-power-bi-using-azure-ir-and-managed-identity-in-public-network>

upvoted 1 times

## Question #18

## Topic 1

You have a Power BI workspace named Workspace1 that contains five dataflows.

You need to configure Workspace1 to store the dataflows in an Azure Data Lake Storage Gen2 account.

What should you do first?

- A. From the Power BI Admin portal, enable tenant-level storage.
- B. Disable load for all dataflow queries.
- C. Delete the dataflow queries.
- D. Change the Data source settings in the dataflow queries.

**Correct Answer: A**

*Community vote distribution*



✉️ **ExamPage** 4 months, 3 weeks ago

**Selected Answer: C**

The question says to configure the Workspace1....

Answer is C.

Finally, you can connect to any ADLS Gen 2 from the Admin portal, but if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting.

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>  
upvoted 5 times

✉️ **Habiba11** 4 months ago

says "Finally" so enabling tenant-level storage comes first

upvoted 2 times

✉️ **MaryemSB** 2 weeks, 2 days ago

**Selected Answer: C**

tenant-level storage is not mandatory for this case, as question is mentioning workspace connection to ADLS2.  
however, workspace must be empty of dataflows before connecting to the ADLS2 account

"if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting."  
"if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting."

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>  
upvoted 1 times

✉️ **Deloro** 3 months, 2 weeks ago

i'm a bit lost here, but my guess is also b or C since A is tenant level and you need to config a workspace

upvoted 1 times

✉️ **Deloro** 3 months, 2 weeks ago

ok sorry, chatgpt; Tenant-level storage allows you to specify a default storage location for dataflows at the workspace level. > so that's what i FIRST would do

upvoted 1 times

✉️ **fireofsea** 4 months ago

**Selected Answer: A**

No116 is same question, why 116 answer is A. Change the Data source settings in the dataflow queries.

If in No18, "A. From the Power BI Admin portal..." is the best answer ?

upvoted 2 times

✉️ **orionduo** 4 months, 2 weeks ago

**Selected Answer: A**

It looks like that A is correct.

upvoted 2 times

✉️ **hoss29** 5 months ago

**Selected Answer: C**

Answer is C. Won't be able to create the connection while dataflows exist in the workspace -> <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration> -> "you must first ensure there are no dataflows in the workspace before connecting"

upvoted 3 times

✉️ **Batman160591** 5 months, 3 weeks ago

**Selected Answer: A**

100% its A

upvoted 1 times

✉️ **MohsenSic** 5 months, 4 weeks ago

**Selected Answer: A**

AS MENTIONED EARLIER, SEE THIS <https://learn.microsoft.com/en-us/azure/purview/register-scan-power-bi-tenant?tabs=Scenario1>

upvoted 1 times

✉️ **PrudenceK** 6 months ago

According to ChatGPT the correct answer is A: Enabling tenant-level storage allows you to configure the default storage location for dataflows in Power BI. By enabling this feature and setting up the Azure Data Lake Storage Gen2 account as the default storage location, any new dataflows created within Workspace1 will automatically store their data in the specified Azure Data Lake Storage Gen2 account.

upvoted 2 times

✉️ **Eltooth** 6 months, 1 week ago

**Selected Answer: A**

MS make questions simple. Maybe this has not been transcribed fully from the exam with all the info needed.

I would put money on MS asking for the first (logical) step to add in an ADLS, which typically requires enabling of Azure storage. Happy to be proven wrong.

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 2 times

✉️ **Plb2** 6 months, 1 week ago

The answer is C, the existing dataflows shall be deleted from a workspace before the workspace can be connected to a storage account. (check the 'Connect Power BI with your dataflow storage' video by Curbal on YouTube)

upvoted 2 times

✉️ **Cococo** 7 months, 1 week ago

Looks like it is C, MS guide is saying that there should be no DFs if we're trying to use ADLSGen2 ACCOUNT(!), and check out this discussion as well - <https://community.fabric.microsoft.com/t5/Service/Configuring-dataflow-storage-to-use-Azure-Data-Lake-Gen-2-when/m-p/2214368/highlight/true>

upvoted 2 times

✉️ **cunningjack** 7 months, 3 weeks ago

**Selected Answer: C**

If we go with the prerequisite - should we not delete the dataflows in the workspace before we connect it to ADLS? Option C ?

upvoted 3 times

✉️ **dev2dev** 8 months ago

**Selected Answer: A**

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

"This feature essentially allows you to "bring your own storage" to Power BI dataflows, and establish a connection at the tenant or workspace level."

upvoted 1 times

✉️ **sgodd\_0298** 8 months, 1 week ago

**Selected Answer: B**

Answer is B: "Prerequisite: you can connect to any ADLS Gen 2 from the Admin portal, but if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting."

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 3 times

✉️ **AlanMont** 6 months, 3 weeks ago

I agree. We cant choose A because at the Admin Portal we have an option "Workspace-level storage permissions".

<https://learn.microsoft.com/pt-br/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 1 times

✉️ **fdsdfgxcvbdsfhshfg** 8 months ago

this guy is correct, we were asked to setup the storage at the workspace level

upvoted 2 times

✉️ **DarioReymago** 9 months, 2 weeks ago

correct is A

upvoted 1 times

✉️ **moreinva43** 12 months ago

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 4 times

## Question #19

## Topic 1

You have an Azure Synapse Analytics dedicated SQL pool.  
You need to ensure that the SQL pool is scanned by Azure Purview.  
What should you do first?

- A. Create a data policy.
- B. Create a data share connection.
- C. Search the data catalog.
- D. Register a data source.

**Correct Answer:** D

*Community vote distribution*

D (100%)

✉️  **Ramiel**  1 year ago

**Selected Answer: D**

Source: <https://learn.microsoft.com/en-us/azure/purview/register-scan-synapse-workspace?tabs=MI#steps-to-register>  
upvoted 8 times

✉️  **gerryboy**  4 months, 1 week ago

**Selected Answer: D**

best answer  
upvoted 1 times

✉️  **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: D**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was "Register a data source."  
upvoted 2 times

✉️  **Eltooth** 7 months ago

**Selected Answer: D**

D is correct answer.  
upvoted 1 times

✉️  **nbagchi** 1 year ago

Correct

upvoted 2 times

## Question #20

## Topic 1

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode. A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Turn off auto refresh when publishing the dataset changes to the Power BI service.
- B. In the dataset, change the fact table from an import table to a hybrid table.
- C. Enable the large dataset storage format for workspace.
- D. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.

**Correct Answer: B**

*Community vote distribution*

B (50%) D (50%)

✉️  PrudenceK  6 months ago

**Selected Answer: B**

B is correct: By changing the fact table from an import table to a hybrid table, you can leverage the benefits of DirectQuery storage mode for the fact table. With DirectQuery, the data remains in the Azure SQL database, and Power BI sends queries directly to the database when users interact with the report. This approach can significantly reduce the amount of data transferred between Power BI and the Azure SQL database.

upvoted 6 times

✉️  TheSwedishGuy 2 months, 1 week ago

ChatGPT agrees with you. So I'll go with you and ChatGPT.

upvoted 1 times

✉️  Az301301X  9 months, 1 week ago

**Selected Answer: D**

The issue of a drastic increase in the number of queries sent to an Azure SQL database can be addressed by reducing the amount of data transferred during a dataset refresh. Given that one of the datasets is larger than 1 GB and has a fact table with over 500 million rows, a full refresh of the entire dataset can cause a significant increase in the number of queries sent to the database.

Therefore, to reduce the size of queries sent to the database during dataset refreshes, I would recommend creating a dataset parameter to filter the fact table rows based on a condition. This will enable the development and test pipelines to refresh the dataset with a smaller subset of data, reducing the overall size of the queries sent to the database.

upvoted 5 times

✉️  dev2dev 8 months ago

issue identified after the deployment, so this solution is wrong which is only applicable to development and testing. Given answer is correct  
upvoted 1 times

✉️  AN\_78 8 months, 3 weeks ago

I disagree. Data in the test environment should be the same as in production, hence you can't reduce number of rows.  
For me correct answer is B  
upvoted 1 times

✉️  DarioReymago 8 months, 2 weeks ago

I prefer B but, the needed but the requirement does not talk about same date in production and test/develop. D could be a solution but we have the issue in producction  
upvoted 1 times

✉️  Az301301X 9 months, 1 week ago

Answer given by Chat GPT  
upvoted 1 times

✉️  Akin\_Eren  4 days, 5 hours ago

**Selected Answer: B**

I think it's B as well; as DirectQuery option would be best for such a huge table. D option does not cover solution for production environment

upvoted 1 times

bigdave987 3 months ago

Selected Answer: B

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

PRODUCTION being the key word here.

D. Create a dataset parameter to reduce the fact table row count in the development and test pipelines. - does NOT reduce queries for the production environment.

Correct answer is B

upvoted 1 times

Hisayuki 3 months, 1 week ago

Selected Answer: B

With DirectQuery for Fact table

upvoted 1 times

Deloro 3 months, 2 weeks ago

Selected Answer: D

d

applied this to clients already

If you publish a report with large dataset it will take forever.

limit the tables to for example top 5 rows with a parameter

deploy

and in the service turn the parameter off (set to false) and the data is refreshed in the service and you wont publish a large dataset

upvoted 1 times

Alborz 4 months, 3 weeks ago

Selected Answer: D

By creating a dataset parameter that can dynamically filter or reduce the fact table's row count during development and testing pipelines, you can limit the amount of data that needs to be refreshed and processed. This can help in reducing the load on the database during these pipeline runs and optimize the performance.

upvoted 1 times

ExamPage 4 months, 4 weeks ago

Correct Answer : B

<https://data-mozart.com/hybrid-tables-in-power-bi-the-ultimate-guide/>

upvoted 1 times

dev2dev 8 months ago

Selected Answer: B

issue identified after the deployment, so this solution is wrong which is only applicable to development and testing. Given answer is correct

upvoted 2 times

kelibolangen 8 months ago

the answer is D, pls read the question carefully

"reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production"

upvoted 3 times

Cococo 7 months, 1 week ago

Agree, the only option to REDUCE SIZE OF QUERIES is to limit records (there is OR in "are published to development, test, or production", so in any of that), hybrid table will get you the same 500million rows

upvoted 2 times

Qordata 1 week, 5 days ago

please the part you have pasted and the answer, you will find the missing part is that answer does not apply to production so therefore it is incorrect

upvoted 1 times

dera23 9 months, 1 week ago

D is correct.

It says that a refresh is always triggered when publishing from one stage to the next, hence changing the refresh mode will not help the situation

upvoted 1 times

soref 9 months, 1 week ago

B is correct . You could see this video to know more about Hybrid table benefits

<https://www.youtube.com/watch?v=HckuKYIx8kk>

upvoted 2 times

DarioReymago 9 months, 2 weeks ago

**Selected Answer: B**

B is correct  
upvoted 2 times

 **teedot** 9 months, 3 weeks ago

I believe B is correct since the volume of data going into the test environment should be as close as possible to what will be experienced in production  
upvoted 1 times

 **MrXBasit** 1 year ago

**Selected Answer: D**

Answer is correct  
upvoted 2 times

 **cherious** 1 year ago

**Selected Answer: D**

Since the number of queries sent to the data source has increased after introducing deployment pipeline, they must be using production data for all stages, so it would be optimal to reduce number of table rows for dev and test stages. For more details: <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-best-practices#use-deployment-rules-with-a-real-life-data-source>

You can't really change table from import to hybrid mode, you need to configure table with import mode as a hybrid table. Plus, before introducing deployment pipeline the count of table rows must be approximately the same so this should have nothing to do with the problem.  
upvoted 4 times

 **nbagchi** 1 year ago

Correct  
For more info, check: <https://powerbi.microsoft.com/en-za/blog/announcing-public-preview-of-hybrid-tables-in-power-bi-premium/>  
upvoted 4 times

 **ivanb94** 12 months ago

I also agree with B mostly bc with D I don't see how we justify working with less rows in development and production. Usually you want more data at these stages, not less, to make sure what you've developed primarily applies to more/different data.  
upvoted 2 times

 **ivanb94** 12 months ago

\*test and production, sorry  
upvoted 3 times

## Question #21

## Topic 1

You have a Power BI Premium capacity.  
You need to increase the number of virtual cores associated to the capacity.  
Which role do you need?

- A. Power BI workspace admin
- B. capacity admin
- C. Power Platform admin
- D. Power BI admin

**Correct Answer: D**

*Community vote distribution*



✉️ **Ramiel** 1 year ago

**Selected Answer: D**

"Power BI admins and global administrators can change Power BI Premium capacity. Capacity admins who are not a Power BI admin or global administrator don't have this option."

Reference: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage>  
upvoted 19 times

✉️ **AT96** 1 year ago

To increase the number of virtual cores associated with a Power BI Premium capacity, you need to have the capacity admin role. The capacity admin is responsible for managing the capacity settings, including the number of virtual cores, memory, and other resources allocated to the capacity.

upvoted 7 times

✉️ **MohsenSic** 5 months, 3 weeks ago

I guess Capacity admin is the correct one <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage#setting-up-a-new-capacity-power-bi-premium>

upvoted 1 times

✉️ **acsoma** 5 months, 1 week ago

From your link:

Power BI admins and global administrators can change Power BI Premium capacity. Capacity admins who aren't a Power BI admin or global administrator don't have this option.

So correct is D

upvoted 2 times

✉️ **MohsenSic** 5 months, 3 weeks ago

**Selected Answer: B**

Sorry I meant B and NOT C

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage#setting-up-a-new-capacity-power-bi-premium>

upvoted 1 times

✉️ **MohsenSic** 5 months, 3 weeks ago

**Selected Answer: C**

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage#setting-up-a-new-capacity-power-bi-premium>

upvoted 1 times

✉️ **Plb2** 6 months, 1 week ago

Answer D

After you have purchased capacity nodes in Microsoft 365, you set up the capacity in the Power BI admin portal. You manage Power BI Premium capacities in the Capacity settings section of the portal.

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage#manage-capacity>

upvoted 1 times

✉️ **Eltooth** 7 months ago

**Selected Answer: D**

D is correct.

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage#change-capacity-size>

upvoted 2 times

✉️ **NickWerbung** 9 months, 3 weeks ago

ChatGPT says "capacity admin" or "Power BI Premium capacity admin."

upvoted 1 times

✉️ **DarioReymago** 8 months, 2 weeks ago

do not trust a technology that has just been launched

upvoted 1 times

✉️ **Iaco96** 10 months, 3 weeks ago

"Capacity Admins don't have permissions to create new capacities or scale existing capacities"

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-capacity-manage-gen2>

upvoted 1 times

✉️ **taza31** 11 months, 1 week ago

**Selected Answer: B**

Capacity Admin

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-capacity-manage-gen2>

upvoted 1 times

✉️ **cherious** 1 year ago

**Selected Answer: D**

Ramiel has already explained

upvoted 3 times

✉️ **6688Wj** 1 year ago

**Selected Answer: D**

Power BI admin

upvoted 4 times

✉️ **nbagchi** 1 year ago

B is correct as AT96 mentioned

upvoted 1 times

## Question #22

## Topic 1

You are attempting to configure certification for a Power BI dataset and discover that the certification setting for the dataset is unavailable.

What are two possible causes of the issue? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. The workspace is in shared capacity.
- B. You have insufficient permissions.
- C. Dataset certification is disabled for the Power BI tenant.
- D. The sensitivity level for the dataset is set to Highly Confidential.
- E. Row-level security (RLS) is missing from the dataset.

**Correct Answer: BC**
*Community vote distribution*

 BC (100%)

 **solref**  9 months, 1 week ago

BC are ok! For more info : <https://learn.microsoft.com/en-us/power-bi/admin/service-admin-setup-certification>  
upvoted 6 times

 **SamuComqi**  4 months, 2 weeks ago

**Selected Answer: BC**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- You have insufficient permissions.
- Dataset certification is disabled for the Power BI tenant.

upvoted 1 times

 **DarioReymago** 9 months, 2 weeks ago

**Selected Answer: BC**

"...Certification is available only if a Power BI administrator has enabled and configured it for your organization..."  
<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-endorsement-overview#endorsement-overview>  
upvoted 2 times

 **teedot** 9 months, 3 weeks ago

**Selected Answer: BC**

Tried it in a shared capacity, it worked after enabling certification in Admin tenant settings  
upvoted 2 times

 **NickWerbung** 9 months, 3 weeks ago

ChatGPT says:

The possible causes of the issue described in the question are:

- A. The workspace is in shared capacity.
- B. You have insufficient permissions.

To configure certification for a Power BI dataset, the workspace must be in Power BI Premium capacity. If the workspace is in shared capacity, certification settings will not be available.

Also, to configure certification, you need to have the necessary permissions to create and manage datasets in the workspace. If you have insufficient permissions, certification settings will be unavailable.

Here are the Microsoft documentation links for more information:

- A. Configuring dataset certification in Power BI: <https://docs.microsoft.com/en-us/power-bi/certify/datasets>
- B. Manage workspace access in Power BI: <https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-manage-workspaces>

The other options mentioned in the question, C, D, and E, are not related to the issue of certification settings being unavailable.

upvoted 1 times

 **cherious** 1 year ago

**Selected Answer: BC**

BC for sure!

upvoted 3 times

 **Maazi** 1 year ago

B and C looks correct to me.

Ref: <https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-endorsement-overview>

upvoted 1 times

 **KWaleed** 1 year ago

**Selected Answer: BC**

You can read more about it here

<https://www.fourmoo.com/2019/06/25/how-to-setup-and-get-a-certified-dataset-in-powerbi/>

upvoted 2 times

## Question #23

## Topic 1

Your company is migrating its current, custom-built reporting solution to Power BI.

The Power BI tenant must support the following scenarios:

40 reports that will be embedded in external websites. The websites control their own security. The reports will be consumed by 50 users monthly.

Forty-five users that require access to the workspaces and apps in the Power BI Admin portal. Ten of the users must publish and consume datasets that are larger than 1 GB.

Ten developers that require Text Analytics transformations and paginated reports for datasets. An additional 15 users will consume the reports.

You need to recommend a licensing solution for the company. The solution must minimize costs.

Which two Power BI license options should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. 70 Premium per user
- B. one Premium
- C. 70 Pro
- D. one Embedded
- E. 35 Pro
- F. 35 Premium per user

**Correct Answer: BF***Community vote distribution*

✉️ cherious 12 months ago

**Selected Answer: BE**

My answer is One Premium and 35 Pro.

Since we need 45 users to have access to the workspaces and apps, 35 Premium Per user would not work because for the Premium Per User workspace content to be accessed we need that all users have Premium Per User. So even if we go for Premium Per User, then we need to purchase it for 70 users.

Also, since we want to publish reports to web and not embed to the app, I would not consider Embedded capacity.

Another important thing is to minimize the cost. We can use Premium capacity for publishing the reports to web, supporting Text Analytics transformations and paginated reports and having dataset more than 1GB.

For the users who will be actively busy with development we can purchase 35 pro licenses (IMO 20 pro account is enough).

upvoted 11 times

✉️ Hongzu13 9 months, 3 weeks ago

I took the exam the other day, and there is one change to this question as it want's three answers.

I went with

1 Premium

35 Pro

Embedded

I have to say that I am not sure about embedded. But just keep in mind that it is 3 answers and not just 2 in the actual exam

Good luck!

upvoted 6 times

✉️ Eltooth 6 months ago

Agreed - this is asking for 3 answers.

upvoted 1 times

✉️ SamuComqi 4 months, 2 weeks ago

**Selected Answer: BD**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

The questions required three licenses. My answer was:

- one Premium
- one Embedded
- 35 Pro

upvoted 3 times

✉️ MohsenSic 5 months, 3 weeks ago

**Selected Answer: CD**

For embeding in external we need to have one embeded.

Regarding the rest:

"With Power BI Pro, you can use all sharing methods except Power BI Embedded (which comes through different licensing options). You can use Simple Sharing, Workspaces, Power BI Apps, and Embed in SharePoint Online. If you have a Power BI Pro license, you can share the reports internally or externally (if allowed by the Power BI Administrator). However, if you share a report with someone else, they must also have a paid Power BI license to view the reports. If you have a pro license and share a report with a free user, they cannot see it unless they upgrade to the pro user or premium per user"

<https://radacad.com/power-bi-licensing-walk-through-guide>

upvoted 1 times

✉ **MohsenSic** 5 months, 3 weeks ago

please delete my comment admin, sorry for the inconvenience,

upvoted 1 times

✉ **MashTheWeb** 6 months ago

There were three in the actual exam. I selected One Pro

upvoted 1 times

✉ **PrudenceK** 6 months ago

**Selected Answer: CD**

As per ChatGPT:

To minimize costs and meet the requirements of the different user scenarios, the recommended Power BI license options would be:

C. 70 Pro: This license option is suitable for the 45 users who require access to workspaces and apps in the Power BI Admin portal. The Pro license provides the necessary capabilities for consuming and interacting with reports and dashboards.

D. one Embedded: This license option is appropriate for the 40 reports that will be embedded in external websites. The websites control their own security, so the Embedded license allows you to embed Power BI content securely within these external sites. With one Embedded license, you can distribute and share the reports across multiple websites.

By combining these two license options, you can cover all the user scenarios while minimizing costs. The 10 developers who require Text Analytics transformations and paginated reports can utilize the Pro licenses, and the additional 15 users who consume the reports can also use the Pro licenses assigned to them.

Therefore, the correct answers are:

C. 70 Pro

D. one Embedded

upvoted 1 times

✉ **solref** 9 months, 1 week ago

D and F

Power BI Embedded - This license is designed for users who need to embed reports in external websites or applications. It allows the company to embed up to 40 reports in external websites, and it also supports user-based licensing, which is ideal for the 50 monthly users who will consume the embedded reports.

10 of the users must publish and consume datasets that are larger than 1 GB

+ 10 developers that require Text Analytics transformations and paginated reports for datasets

+ Additional 15 users will consume the reports (if they will work with)

--> They need PPU making it a 35 Premium Per User (PPU) license

Others

Free License) As long as your colleagues use Premium capacity workspaces to share content, free users can view and interact with that content.

When Free is shown, you can only create content in My Workspace and consume content that is hosted in a Premium workspace.

<https://learn.microsoft.com/en-us/power-bi/consumer/end-user-features>

upvoted 3 times

✉ **JLMR10** 9 months, 1 week ago

and "Forty-five users that require access to the workspaces and apps in the Power BI Admin portal", you aren't giving them a solution no???

upvoted 1 times

✉ **solref** 9 months ago

<https://learn.microsoft.com/en-us/power-bi/consumer/end-user-features> read it please and obtain your own conclusions ;)

upvoted 1 times

✉ **solref** 9 months ago

"...45 users require access to the workspaces and apps in the Power BI Admin portal.

->(Free License) As long as your colleagues use Premium capacity workspaces to share content, free users can view and interact with that content. When Free is shown, you can only create content in My Workspace and consume content that is hosted in a Premium workspace.

upvoted 1 times

✉ **solref** 9 months ago

People with the licenses could share the reports and apps, and the 45 could access without license

upvoted 1 times

✉ **teedot** 9 months, 3 weeks ago

1 premium, 1 embedded, 20 pro least cost

upvoted 1 times

✉  **NickWerbung** 9 months, 3 weeks ago

ChatGPT says:

The recommended Power BI license options for the given scenarios are:

B. One Premium license for the developers who require Text Analytics transformations and paginated reports, and for the ten users who must publish and consume datasets that are larger than 1 GB.

D. One Embedded license for the 40 reports that will be embedded in external websites. This license provides the necessary capacity for embedding the reports and can be controlled by the websites' security.

Both options are cost-effective as they provide the necessary features and capacities while minimizing costs.

Here are the Microsoft documentation links for more information:

B. Power BI Premium: <https://docs.microsoft.com/en-us/power-bi/admin/service-premium-what-is>

D. Power BI Embedded: <https://docs.microsoft.com/en-us/power-bi/developer/embedded/embedded-faq>

upvoted 1 times

✉  **didiu92** 10 months ago

My answer is One premium and 35 PRO (actually 20 PRO would have been enough)

Ten of the users must publish and consume datasets that are larger than 1 GB. (Premium)

Ten developers that require Text Analytics transformations and paginated reports for datasets. (Pro license for developers)

An additional 15 users will consume the reports. (not relevant if we have Premium capacity)

upvoted 1 times

✉  **JuLio82** 10 months, 1 week ago

should be, one premium, 35 Pro and 35 Premium per user.

upvoted 3 times

✉  **Tranter** 7 months, 1 week ago

if we consider that Users with PPU capacity subscriptions can't share content with users who have a Pro or free license BF would be correct

upvoted 1 times

✉  **JuLio82** 10 months, 1 week ago

There is an error, the exam says THREE answers, so all the discussion is INCORRECT

upvoted 3 times

✉  **Top21** 10 months, 2 weeks ago

I sat for this exam today but when I saw this question I was asked to select three answers and not two.

Please review the question and answers

upvoted 3 times

✉  **Madiba\_kaka** 11 months ago

premium vs embedded -

<https://www.bluegranite.com/blog/choosing-between-pbi-premium-or-embedded>

upvoted 1 times

✉  **master\_artiom1983** 11 months, 3 weeks ago

I think Embedded capacity will be enough (there is no restriction 1GB).

Users with Power BI Embedded capacity can access the workspaces and apps that they have been granted access to by the administrator of the tenant or the workspace.

With Power BI Embedded capacity you can give your end users access to report, dashboards and tiles that are embedded in your app. The access to the workspaces and apps depends on the way the capacity is being used and the permissions being granted by the administrator.

For example, if the Power BI Embedded capacity is being used to create an ISV (Independent Software Vendor) app, the app creator may have access to a specific set of workspaces and apps, and their customers may have access to a different set of workspaces and apps. Additionally, the administrator of the tenant can control the access to the workspaces and apps and can assign roles to the users with different level of permissions, such as view, edit and admin access.

And also it's much more cheaper than Premium.

upvoted 1 times

✉  **MeisterD** 11 months, 3 weeks ago

I think Pro is necessary only if we are assuming that there are premium workspaces set up. However, the language is that "10 of the users must publish and consume datasets larger than 1 GB" which refers to capabilities without configuration.

upvoted 1 times

✉  **ivanb94** 12 months ago

I think the answer is correct bc (see below)

- 40 reports that will be embedded in external websites. The websites control their own security. The reports will be consumed by 50 users monthly.

- > how many reports will be published to web and how many ppl will consume it is irrelevant for licensing since the publishing itself is possible even for the free license. This whole requirement is here just to confuse ppl

- 45 users require access to the workspaces and apps in the Power BI Admin portal --> key word is app and premium capacity takes care of this

- 10 of the users must publish and consume datasets that are larger than 1 GB --> this rules out Pro so you're left with 10 PPU

- 10 developers that require Text Analytics transformations and paginated reports for datasets --> both features require Premium
- Additional 15 users will consume the reports --> well then they need PPU making it a 35 PPUs in total

upvoted 4 times

## Question #24

## Topic 1

You have two Power BI reports named Report1 and Report2.

Report1 connects to a shared dataset named Dataset1.

Report2 connects to a local dataset that has the same structure as Dataset1. Report2 contains several calculated tables and parameters.

You need to prepare Report2 to use Dataset1.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Remove the data source permissions.
- B. Delete all the Power Query Editor objects.
- C. Modify the source of each query.
- D. Update all the parameter values.
- E. Delete all the calculated tables.

**Correct Answer: CD***Community vote distribution*

**AT96** 1 year ago

CORRECT ANSWER IS: CE

Modify the source of each query: You need to modify the source of each query in Report2 to use Dataset1 as the data source, instead of the local dataset. This will ensure that Report2 uses the data from Dataset1, rather than the data from the local dataset.

Delete all the calculated tables: Report2 contains several calculated tables that were based on the local dataset. These calculated tables will no longer be valid when using Dataset1 as the data source, so you should delete them.

upvoted 12 times

**ivanb94** 12 months ago

I agree with C and your explanation for it but I would be hesitant to choose E bc calculated columns absolutely can work if the dataset has the same structure meaning same column names and data types. The calculation will work on the dataset 1 data just as it worked on dataset2 if all elements of the formula for the calculated column stay the same. Therefore I would go with D as the second answer.

upvoted 9 times

**cherious** 1 year ago

**Selected Answer: BE**

You just need to remove all the queries in the PQ and delete calculated tables. You are not able to modify queries to connect Power BI Dataset. Also, when you connect to Power BI Dataset and after that go to Power Query, there is 0 queries, nothing is displayed. Plus, in the question there is no indication that we need the calculated tables and parameters, so no problem with deleting them. We just need to move to dataset1

upvoted 8 times

**Qordata** 3 months, 3 weeks ago

**Selected Answer: BE**

A. Incorrect: As removing dataset permissions would generate errors while refreshing data. Local dataset needs to be removed from Report2  
 B. Correct: As you need to prepare report for shared dataset which would work as live connection so all power query objects should be deleted  
 C. As we need to delete the power query objects and in shared dataset there is a live connection with all the tables in that dataset modifying the source of each PQ object/query is irrelevant

D. Incorrect: There is no mention of power query parameters so seems irrelevant with scenario posted in the question

Correct: When you are building a report based on shared Dataset you can not use calculated tables (6:35 of video [https://www.youtube.com/watch?v=ENZm\\_7jWU4Q](https://www.youtube.com/watch?v=ENZm_7jWU4Q)) so they would need to be deleted. Also I tried it myself and with shared dataset under modelling new table option is disabled

upvoted 2 times

**SamuComqi** 4 months, 2 weeks ago

**Selected Answer: CD**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Modify the source of each query.
- Update all the parameter values

upvoted 2 times

**Alborz** 4 months, 3 weeks ago

**Selected Answer: CD**

Option C: This involves updating the source of each query in Report2 to point to the shared dataset Dataset1

Option D: If Report2 has parameters that are specific to its local dataset, you should update these parameters to match the parameters of Dataset1.

upvoted 2 times

 **MohsenSic** 5 months, 3 weeks ago

I think the question has three correct answers, We need to change source this is a fact, Also PQ and calculated columns are not available in shared dataset.

The connection to a Power BI dataset won't be shown in Power Query.

<https://learn.microsoft.com/en-us/power-bi/transform-model/desktop-composite-models>

also see here regarding above:

<https://community.fabric.microsoft.com/t5/Desktop/Can-not-use-Power-Query-with-a-shared-dataset/td-p/2090909>

While you're using Power Bi Shared dataset, you can create measures but you will not be able to create a new column or do any such changes in your report as it derives its properties and data from the source dataset.

<https://community.fabric.microsoft.com/t5/Service/Help-needed-with-shared-datasets-and-limitations-of-live/m-p/2386845#:~:text=While%20you're%20using%20Power,data%20from%20the%20source%20dataset.>

Same thing here: video time 6:35

<https://radacad.com/power-bi-licensing-walk-through-guide>

upvoted 1 times

 **ameer989** 6 months, 2 weeks ago

**Selected Answer: CE**

How can you connect to the new data sources without modifying the existing sources

upvoted 1 times

 **manolet** 8 months, 2 weeks ago

You connect to a shared dataset using a live connection. Therefore you can not use PQ.

upvoted 1 times

 **ThariCD** 8 months, 2 weeks ago

**Selected Answer: CD**

You can modify the source for each query and the calculated tables are automatically updated if the underlying source is changed provided the structure is still the same in the new data source.

upvoted 1 times

 **DarioReymago** 9 months, 1 week ago

**Selected Answer: CD**

C and D are correct

upvoted 2 times

 **solref** 9 months, 1 week ago

C and D are OK

upvoted 2 times

 **Az301301X** 9 months, 2 weeks ago

**Selected Answer: CD**

The correct answers are C and D.

Explanation:

To prepare Report2 to use Dataset1, you need to modify the queries' source to point to Dataset1 and update the parameter values accordingly.

Therefore, you should perform the following actions:

C. Modify the source of each query: You need to update the source of each query in Report2 to point to Dataset1 instead of the local dataset. To do this, open Power Query Editor in Report2, select each query, and then update the data source to use Dataset1.

D. Update all the parameter values: If Report2 contains any parameters, you need to update their values to match the parameters in Report1 that connect to Dataset1. To do this, go to the "Manage Parameters" dialog box in Report2 and update the parameter values to match those in Report1.

upvoted 3 times

 **Az301301X** 9 months, 2 weeks ago

A, B, and E are incorrect:

A. Removing data source permissions will not help prepare Report2 to use Dataset1.

B. Deleting all the Power Query Editor objects would also not be useful as you would need to recreate the objects anyway.

E. Deleting all calculated tables is not necessary. Instead, you should update the calculated tables' source to point to Dataset1, just like you did with the queries.

upvoted 2 times

 **Qordata** 3 months, 3 weeks ago

Agree with A

Disagree with B.

Shared dataset there is no object in power query it is a live connection to published dataset and question says you need to prepare Report2 to use shared Dataset1 so you need to delete all the power query editor objects

Disagree with C

When you are building a report of shared Dataset you can not use calculated tables (6:35 of video [https://www.youtube.com/watch?v=ENZm\\_7jWU4Q](https://www.youtube.com/watch?v=ENZm_7jWU4Q)) so they would need to be deleted.

upvoted 1 times

✉ **Az301301X** 9 months, 2 weeks ago

BTW: Answers given by CHAT GPT

upvoted 1 times

✉ **didiu92** 10 months ago

Answer is CORRECT (C& D)

You need to prepare Report2 to use Dataset1. It never says you need to make Report 1 to be the same as Report1. You do not need to delete the calculated tables or parameters, you just need to update the values.

upvoted 1 times

✉ **eekman** 11 months, 1 week ago

**Selected Answer: BE**

I would go for B and E based on this blog:

<https://technologyblog.rsmus.com/data-analytics/power-bi-datasets-changing-your-data-source/>

upvoted 1 times

✉ **6688Wj** 1 year ago

I choose AC

upvoted 1 times

✉ **Bob5379** 1 year ago

BE,

If you connect to a Power BI dataset, you cannot connect other sources at the same time. To connect a Power BI dataset, you must first remove all existing connections in Power Query and Calculated Table & Measure

upvoted 4 times

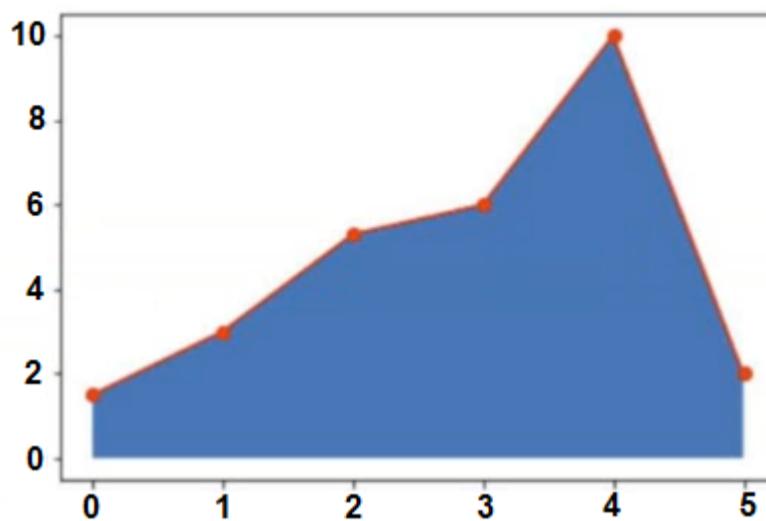
## Question #25

## Topic 1

HOTSPOT -

You have an Azure Synapse notebook.

You need to create the visual shown in the following exhibit.

**chart 1**

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
import matplotlib.pyplot as plt
x = [0, 1, 2, 3, 4, 5]
y = [1.5, 3, 5.3, 6, 10, 2]
plt.plot(x, y, '-o', color='red')
plt. (x, y)
plt. ('chart 1', fontweight='bold'
plt.show()
```

**Answer Area**

Correct Answer:

```
import matplotlib.pyplot as plt
x = [0, 1, 2, 3, 4, 5]
y = [1.5, 3, 5.3, 6, 10, 2]
plt.plot(x, y, '-o', color='red')
plt. (x, y)
plt. ('chart 1', fontweight='bold'
plt.show()
```

Ndz 12 months ago

I ran the code locally. The answer is correct.  
upvoted 9 times

jl234 2 months ago

Tried the difference between plotting fill and fill\_between.

fill\_between will get the plot as shown in the question, while using fill will get a plot with y axis starts from 2.

So, the answer is fill\_between and suptitle.

upvoted 2 times

✉ **orionduo** 4 months, 2 weeks ago

```
plt.fill_between(x,y)
plt.suptitle('chart 1', fontweight = 'bold')
The answer is correct. I have tested in Python.
```

upvoted 1 times

✉ **P1b2** 6 months, 1 week ago

[https://matplotlib.org/stable/api/\\_as\\_gen/matplotlib.pyplot.fill.html](https://matplotlib.org/stable/api/_as_gen/matplotlib.pyplot.fill.html)  
Notes  
Use fill\_between() if you would like to fill the region between two curves.

Answer is fill not fill\_between

upvoted 2 times

✉ **DarioReymago** 9 months, 1 week ago

is ok .fill\_between & suptitle

upvoted 3 times

✉ **master\_artiom1983** 11 months, 3 weeks ago

Correct

```
import matplotlib.pyplot as plt
x = [0,1,2,3,4,5]
y = [1.5,3,5.3,6,10,2]
plt.plot(x,y,'-o', color = 'red')
plt.fill_between(x,y)
plt.suptitle('chart 1', fontweight = 'bold')
plt.show()
```

upvoted 4 times

✉ **AshwinN1992** 1 year ago

Please confirm the correct answer

upvoted 2 times

## Question #26

## Topic 1

You use an Apache Spark notebook in Azure Synapse Analytics to filter and transform data.

You need to review statistics for a DataFrame that includes:

The column name -

The column type -

The number of distinct values -

Whether the column has missing values

Which function should you use?

- A. `displayHTML()`
- B. `display(df, summary=true)`
- C. `%configure`
- D. `display(df)`
- E. `%%lsmagic`

**Correct Answer: B**

*Community vote distribution*

B (100%)

AT96 Highly Voted 1 year ago

Correct answer  
upvoted 7 times

Maazi 1 year ago

True, B is correct  
Ref: <https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization>  
upvoted 5 times

metiii Most Recent 1 month, 2 weeks ago

**Selected Answer: B**

Today I took this exam and there was a question with some similarities to this one. The question was something like this:  
What information does this function give us: `display(df, summary=true)`?  
There were 6 choices and we had to choose three, these are the correct answers:  
Type, Missing & Unique  
The only other thing that this function gives us is the column's name.  
<https://learn.microsoft.com/en-us/fabric/data-engineering/notebook-visualization#displaydf-summary-view>  
upvoted 1 times

orionduo 4 months, 2 weeks ago

Correct answer.  
You can use `display(df, summary = true)` to check the statistics summary of a given Apache Spark DataFrame that include the column name, column type, unique values, and missing values for each column. You can also select on specific column to see its minimum value, maximum value, mean value and standard deviation.  
upvoted 1 times

Tranter 7 months, 1 week ago

i retract my previous answer sns.pairplot(iris, hue="species")  
upvoted 1 times

DarioReymago 8 months, 2 weeks ago

**Selected Answer: B**

B Correct answer  
upvoted 2 times

## Question #27

## HOTSPOT -

You are using an Azure Synapse notebook to create a Python visual.

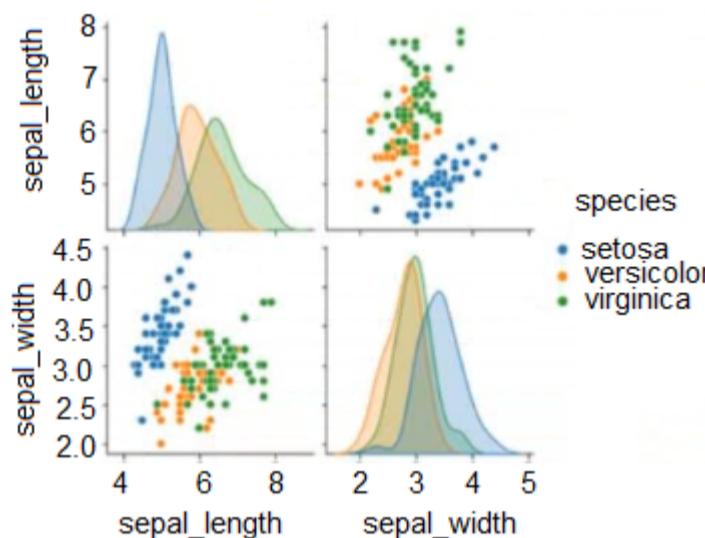
You run the following code cell to import a dataset named Iris.

```
iris = sns.load_dataset("iris")
iris.head()
```

A sample of the data is shown in the following table.

index	sepal_length	sepal_width	species
0	5.1	3.5	setosa
2	4.9	3	setosa
145	6.7	3	virginica
156	6.3	2.5	virginica

You need to create the visual shown in the exhibit. (Click the Exhibit tab.)



How should you complete the Python code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
sns.  (iris, hue=  , height=2.5)



plt.show()
```

## Answer Area

Correct Answer:

```
sns.  (iris, hue=  , height=2.5)



plt.show()
```

 **nbagchi**  1 year ago

pairplot and species  
upvoted 25 times

 **Tranter** 7 months, 1 week ago

There are 2 species in the table so if we use hue = species then we should get 2 different colors , to get 3 different colors we have to use hue=sepal\_width for the 3 different colors  
upvoted 1 times

 **JimmyC** 6 months, 2 weeks ago

Look at the visual... there are 3 species listed on the right  
upvoted 4 times

 **Ramiel**  1 year ago

Pairplot  
Species

Reference: <https://seaborn.pydata.org/generated/seaborn.pairplot.html>  
upvoted 9 times

✉ **Akin\_Eren** Most Recent 4 days, 4 hours ago  
pair\_plot and species  
upvoted 1 times

✉ **SamuComqi** 4 months, 2 weeks ago  
I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  
- pairplot  
- species  
upvoted 2 times

✉ **Eltooth** 6 months, 1 week ago  
Pairplot  
Species  
upvoted 1 times

✉ **Jaison007** 7 months ago  
Species not width  
upvoted 1 times

✉ **soref** 9 months, 1 week ago  
Pairplot and Species  
<https://seaborn.pydata.org/generated/seaborn.pairplot.html>  
upvoted 3 times

✉ **DarioReymago** 9 months, 1 week ago  
yes I think is pairplot and species  
upvoted 1 times

✉ **Mirtise** 10 months, 2 weeks ago  
pairplot and species  
upvoted 2 times

✉ **eekman** 11 months, 1 week ago  
pairplot and species.  
Species because 'hue' specifies to split on color per species.  
upvoted 5 times

## Question #28

## Topic 1

You are creating a Power BI single-page report.

Some users will navigate the report by using a keyboard, and some users will navigate the report by using a screen reader.

You need to ensure that the users can consume content on a report page in a logical order.

What should you configure on the report page?

- A. the X position
- B. the bookmark order
- C. the layer order
- D. the tab order

**Correct Answer:** D

*Community vote distribution*

D (100%)

✉️  **AT96**  1 year ago

correct answer  
upvoted 10 times

✉️  **SamuComqi**  4 months, 2 weeks ago

**Selected Answer: D**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  
- the tab order  
upvoted 1 times

✉️  **Eltooth** 6 months, 1 week ago

**Selected Answer: D**  
D is correct answer.  
upvoted 1 times

✉️  **TSalmanov** 6 months, 4 weeks ago

D is correct  
<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports#tab-order>  
upvoted 3 times

✉️  **DarioReymago** 8 months, 2 weeks ago

**Selected Answer: D**  
correct answer  
upvoted 2 times

## Question #29

## Topic 1

## HOTSPOT -

You have an Azure Synapse workspace named Workspace1.

You need to use PySpark in a notebook to read data from a SQL pool as an Apache Spark DataFrame and display the top five rows.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
val spark_read =  (s "$sql_pool_name.dbo.PublicHoliday")

spark.read.load
spark.read.parquet
spark.read.sqlAnalytics
```

```
 (5, truncate = false)
spark_read.describe().show
spark_read.show
spark_read.take
```

## Answer Area

## Correct Answer:

```
val spark_read =  (s "$sql_pool_name.dbo.PublicHoliday")

spark.read.load
spark.read.parquet
spark.read.sqlAnalytics
```

```
 (5, truncate = false)
spark.read.describe().show
spark.read.show
spark.read.take
```

✉  **KWaleed**  1 year ago

spark.read.sqlAnalytics() and spark\_read.show().

You can see it from the following example notebook <https://github.com/Azure-Samples/Synapse/blob/main/Notebooks/Scala/03%20Read%20and%20write%20from%20SQL%20pool%20table.ipynb>

upvoted 21 times

✉  **AT96**  1 year ago

Correct answer is .load and .show

upvoted 7 times

✉  **dev2dev** 8 months ago

load is wrong. its for reading directly from storage account.

upvoted 2 times

✉  **Az301301X** 1 year ago

honest question: why spark.read.sqlAnalytics is wrong?

upvoted 2 times

✉  **Chk88** 1 year ago

the question pointing to more of a general thing, they did not specify synapse analytics...? thus use the general function

upvoted 1 times

✉  **dev2dev** 8 months ago

indeed the code snipped is loading from managed table. so, no load but sqlAnalytics

upvoted 1 times

✉  **Az301301X** 12 months ago

But it says: You have an "Azure Synapse" workspace named Workspace1.

You need to use PySpark in a notebook to read data from a "SQL pool" as an Apache Spark DataFrame and display the top five rows. So, .sqlAnalytics should work. Thoughts?

upvoted 2 times

✉  **ivanb94** 12 months ago

considering the link KWaleed provided, my thought is that the correct answer is definitely spark.read.sqlAnalytics() and spark\_read.show(). The fact that the question text emphasizes the Azure Synapse Workspace removes any doubts in my opinion.

upvoted 3 times

✉️  **Hisayuki** Most Recent 3 months, 2 weeks ago

read.sqlanalytics - to read dataframe from SQL  
read.load - to read dataframe from files such as parquet

upvoted 1 times

✉️  **orionduo** 4 months, 2 weeks ago

```
// Read the table we just created in the sql pool as a Spark dataframe
val spark_read = spark.read.
sqlAnalytics(s"$sql_pool_name dbo.PublicHoliday")
spark_read.show(5, truncate = false)
```

upvoted 1 times

✉️  **DarioReymago** 9 months, 1 week ago

is load and show, I understand sqlAnalytics is a complement with tools and constants

upvoted 1 times

✉️  **[Removed]** 1 year ago

```
%%pyspark
df = spark.read.load
https://learn.microsoft.com/en-us/azure/synapse-analytics/get-started-analyze-spark
```

upvoted 2 times

✉️  **Bob5379** 1 year ago

```
.sqlAnalytics or synapsesql
.show
```

upvoted 3 times

## Question #30

## Topic 1

You have a Power BI report that contains the table shown in the following exhibit.

Current Month Returns in USD		
Store ID	Store	Returns
6	Leo	\$6,108 
5	Fama	\$6,097 
13	Contoso	\$5,214 
11	Pomum	\$4,968 
7	VanArsdel	\$4,964 
10	Pirum	\$4,644 
2	Aliqui	\$4,479 
1	Abbas	\$4,070 
8	Natura	\$3,376 
14	Victoria	\$2,317 
4	Salvus	\$2,296 
12	Quibus	\$2,208 
3	Barba	\$1,601 
<b>Total</b>		<b>\$52,342</b>

The table contains conditional formatting that shows which stores are above, near, or below the monthly quota for returns.

You need to ensure that the table is accessible to consumers of reports who have color vision deficiency.

What should you do?

- A. Add alt text to explain the information that each color conveys.
- B. Change the icons to use a different shape for each color.
- C. Move the conditional formatting icons to a tooltip report.
- D. Remove the icons and use red, yellow, and green background colors instead.

**Correct Answer: A**
*Community vote distribution*

B (73%)

A (27%)

≡  **Schwami**  1 year ago

Selected Answer: B

Answer is B

upvoted 17 times

≡  **Akin\_Eren**  4 days, 4 hours ago

Selected Answer: B

A is meaningless -- if you have color deficiency and you apply solution on A; then user need to check each row if it is below or up the target -- b option would be nicer and easy to check

upvoted 1 times

≡  **Deloro** 3 months, 2 weeks ago

i would go for B, since A is only applicable to screen readers. it's not mentioned that the customers are only screen reader users ... also in the ms page: use text or icons ... my ideal answer would be A &amp; B but solo I would take B

upvoted 2 times

≡  **Alborz** 4 months, 3 weeks ago

Selected Answer: A

If you change the icon shape to a unique shape for each color, you still need to explain what does that shape mean. This means that you still need the alt text.

So, Alt text would be a better option to choose.

upvoted 2 times

≡  **Habibi123** 5 months ago

Selected Answer: A

A and B seem right in combination. However B won't work without A - therefor A

upvoted 2 times

≡  **segma** 6 months ago

Selected Answer: A

The answer is A; it's on the accessibility Doc no brainer

upvoted 2 times

✉ **segma** 6 months ago

The answer is A; it's on the accessibility Doc no brainer

upvoted 3 times

✉ **PrudenceK** 6 months ago

**Selected Answer: A**

Adding alt text provides an alternative textual description for the content that is conveyed through colors. By describing the meaning of each color used in the conditional formatting, users with color vision deficiency can understand the information presented in the table.

Alt text can be added to the table or the individual cells to describe the significance of colors, such as "above quota," "near quota," or "below quota."

Therefore, the correct answer is A. Add alt text to explain the information that each color conveys.

upvoted 2 times

✉ **MaryemSB** 3 weeks, 5 days ago

A says "explain the information that EACH COLOR conveys" means that the person should be able to see the color first !!

upvoted 1 times

✉ **Eltooth** 6 months, 1 week ago

**Selected Answer: B**

B is correct answer.

upvoted 1 times

✉ **Plb2** 6 months, 1 week ago

B it should be

upvoted 1 times

✉ **ameer989** 6 months, 2 weeks ago

**Selected Answer: A**

It's A as they did focus in their models that Alt text is the way of helping color blind users

upvoted 2 times

✉ **Kanjati** 7 months, 2 weeks ago

So if we change the shape we will still have the same colour! A is better by far

upvoted 1 times

✉ **dev2dev** 8 months ago

**Selected Answer: B**

This is very tricky. Except D, all are possible solutions.

If User is using screen reader then Alt text is the solution

However, if we change the icon set such as Up/Down/Neutral icons then same message can be easily conveyed.

A tool tip also can be useful but it needs user to move hover.

Looking at all options B and A should be combined so it can be used by as many people as possible including complete blind persons. But if I have to choose only one then I will choose B

upvoted 1 times

✉ **Simas367** 8 months, 1 week ago

Changing shapes alone would not be enough, you would also need to describe what the shapes mean, while colors are self-descriptive). I am thus leaning towards A as B is not a complete answer

upvoted 2 times

✉ **dev2dev** 8 months ago

shape with color the option says so its correct

upvoted 1 times

✉ **soref** 9 months ago

**Selected Answer: B**

Obviously is B.

A. Wrong- How a person with visual problems could difference them with a text explanation... it doesn't have any sense

upvoted 1 times

✉ **soref** 9 months ago

<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports>

Report accessibility checklist:

Avoid using color as the only means of conveying information. Use text or icons to supplement or replace the color.

Replace unnecessary jargon or acronyms.

Ensure alt text is added to all non-decorative visuals on the page.

Check that your report page works for users with color vision deficiency

upvoted 1 times

✉  **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

si la persona no puede distinguir el color de nada sirve que explique el significado.  
If people can't differentiate the color I can't help with text explaining the meaning of color  
upvoted 1 times

✉  **cookiemonster42** 10 months, 4 weeks ago

A for sure.  
upvoted 1 times

### Question #31

Topic 1

You have a Power BI dataset that has only the necessary fields visible for report development. You need to ensure that end users see only 25 specific fields that they can use to personalize visuals. What should you do?

- A. From Tabular Editor, create a new role.
- B. Configure object-level security (OLS).
- C. From Tabular Editor, create a new perspective.
- D. Hide all the fields in the dataset.

**Correct Answer: C**

*Community vote distribution*

C (100%)

✉  **nbagchi**  1 year ago

Correct,  
Check this link: <https://data-marc.com/2020/08/18/power-bi-visual-customization-using-perspectives>  
upvoted 8 times

✉  **Chk88** 1 year ago

Correct  
upvoted 3 times

✉  **Eltooth**  6 months, 1 week ago

**Selected Answer: C**

C appears to be the logical answer.  
upvoted 1 times

✉  **Ngol** 11 months, 3 weeks ago

**Selected Answer: C**

<https://byobi.wordpress.com/2017/08/09/object-level-security-for-analysis-services-tabular/#:~:text=What%20is%20Object%2DLevel%20Security,hide%20tables%2Fcolumns%20from%20users>.  
upvoted 3 times

✉  **MM\_GG** 1 year ago

should the answer not be OLS? because even if you allow personalization, users still would be able to use all fields not just 25, no?  
upvoted 1 times

✉  **ivanb94** 12 months ago

yes, but that is exactly why you use perspectives --> to limit the fields that can be used. nbagchi's link explains it very well  
upvoted 2 times

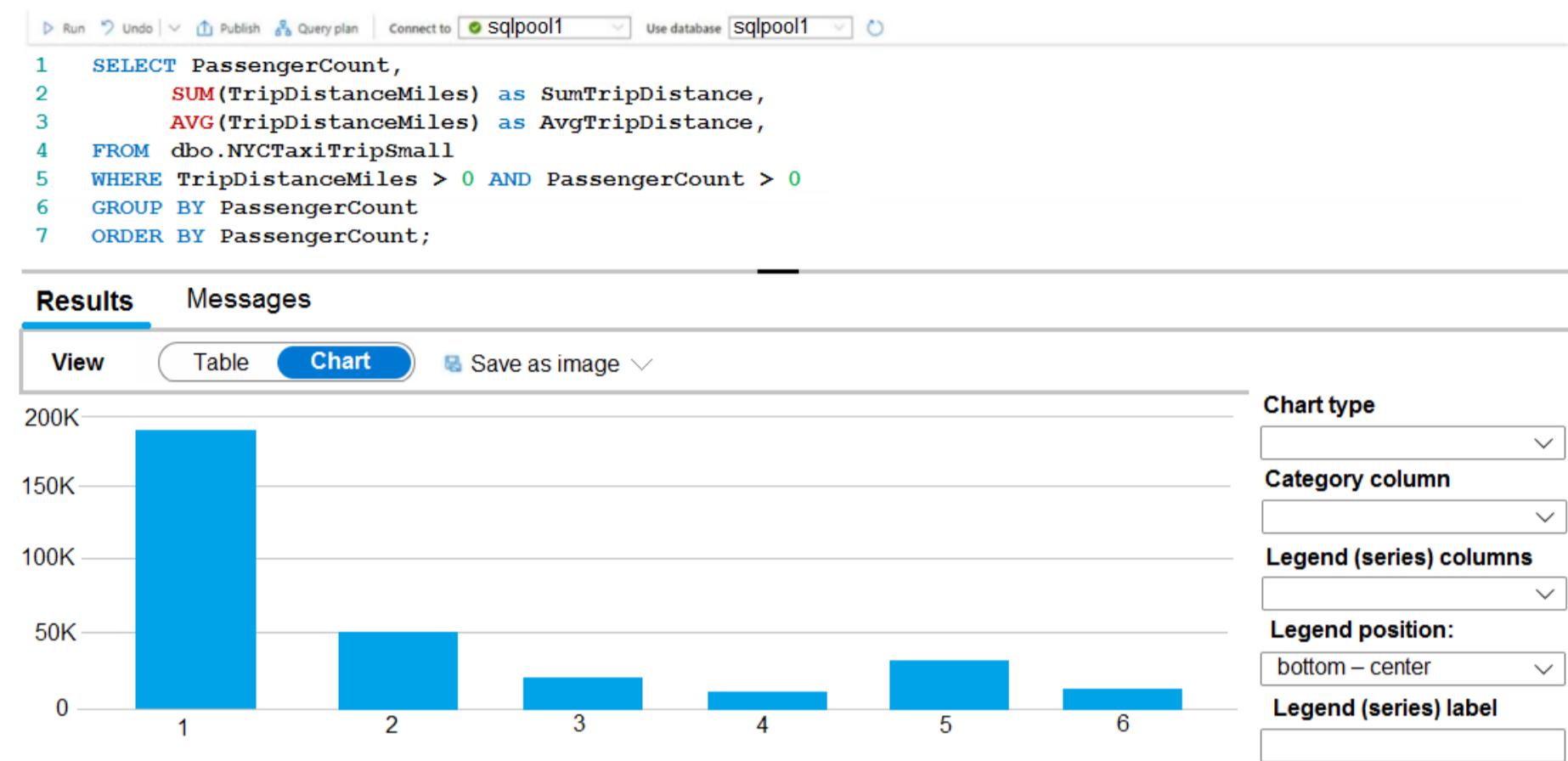
## Question #32

## Topic 1

## HOTSPOT -

You are using Azure Synapse Studio to explore a dataset that contains data about taxi trips.

You need to create a chart that will show the total trip distance according to the number of passengers as shown in the following exhibit.



How should you configure the chart? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Category column:

- AvgTripDistance
- PassengerCount
- SumTripDistance
- TripDistanceMiles

Legend (series) column:

- AvgTripDistance
- PassengerCount
- SumTripDistance
- TripDistanceMiles

## Answer Area

Category column:

- AvgTripDistance
- PassengerCount**
- SumTripDistance
- TripDistanceMiles

Correct Answer:

- AvgTripDistance
- PassengerCount**
- SumTripDistance**
- TripDistanceMiles

nbagchi **Highly Voted** 1 year ago

Correct

upvoted 7 times

SamuComqi **Most Recent** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- PassengerCount  
- SumTripDistance  
upvoted 3 times

✉ **Eltooth** 6 months, 1 week ago

PassengerCount  
SumTripMiles  
upvoted 1 times

✉ **Eltooth** 6 months, 1 week ago

\*SumTripDistance  
upvoted 1 times

✉ **mmrrbb** 7 months, 3 weeks ago

Correct, correct  
upvoted 1 times

✉ **cookiemonster42** 11 months, 1 week ago

Correct. I don't think an average trip distance can be over 150k :)  
upvoted 2 times

## Question #33

## Topic 1

You have a Power BI report that contains the visual shown in the following exhibit.

Product	Sales
Amarilla	17,747,116.06
Carretera	13,815,307.89
Montana	15,390,801.88
Paseo	33,011,143.95
Velo	18,250,059.47
VTT	20,511,921.02
<b>Total</b>	<b>118,726,350.26</b>

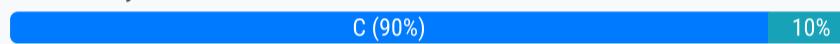
You need to make the visual more accessible to users who have color vision deficiency.

What should you do?

- A. Add additional measures to the table values.
- B. Change the red background color to orange.
- C. Add icons to represent the sales status of each product.
- D. Change the font color of values in the Sales column to white.

**Correct Answer: D**

*Community vote distribution*



✉ **nbagchi** 1 year ago

**Selected Answer: C**

Answer will be C

For color-blind people, the green and red combo is bad, even if you change red to orange, it won't matter much. The best option here is C. As for D, changing the font color to white has nothing to do with color blindness

upvoted 19 times

✉ **Maazi** 1 year ago

I will go for C.

See the Checklist section for All Visuals at

<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports>

upvoted 7 times

✉ **Deloro** 3 months ago

**Selected Answer: D**

Now that I think about it,

make the visual more accessible to viewers with color deficiency.

black and green as mentioned do not go well together (<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports>)

I would go for D

upvoted 1 times

✉ **sheilawu** 3 months ago

**Selected Answer: C**

I will go for C

upvoted 1 times

✉ **Deloro** 3 months, 2 weeks ago

same issue as before, make more accessible > icons or text go for C

upvoted 1 times

✉ **Deloro** 3 months ago

sorry would go for D

upvoted 1 times

✉ **Araujoleo44** 3 months, 2 weeks ago

**Selected Answer: D**

D

Porque torna o texto mais legível para pessoas com deficiência visual de núcleos, especialmente se o cor de fundo é vermelho, que pode tornar

difícil a leitura do texto caso o cor do texto seja muito próximo ao cor de fundo. Alterando o cor da fonte para branco, você aumenta o contraste entre o texto e o fundo, o que facilita a leitura para todos os usuários, independentemente da capacidade de distinguir núcleos.

upvoted 1 times

□ **PrudenceK** 6 months ago

**Selected Answer: C**

To make the visual more accessible to users with color vision deficiency, you should choose option C: Add icons to represent the sales status of each product.

By adding icons, you provide an additional visual cue that can be easily distinguishable by users with color vision deficiency. This helps convey information without relying solely on color differentiation, which may be challenging for some individuals.

Using icons to represent different sales statuses allows users to quickly identify and understand the sales performance of each product, regardless of their color vision capabilities. This enhances the accessibility of the visual and ensures that users with color vision deficiency can effectively interpret the information presented.

upvoted 1 times

□ **Eltooth** 6 months, 1 week ago

**Selected Answer: C**

C is correct answer.

upvoted 1 times

□ **Tranter** 7 months ago

Avoid Reliance on Color Alone: Avoid conveying important information solely through color. Include additional visual cues such as labels, patterns, or shapes to provide context and differentiation for users who may have difficulty perceiving color differences.

upvoted 1 times

□ **Eltooth** 7 months ago

**Selected Answer: C**

C is correct answer.

upvoted 1 times

□ **Jaison007** 7 months, 2 weeks ago

**Selected Answer: C**

C shape would be visible, color is subjective

upvoted 1 times

□ **DarioReymago** 8 months, 2 weeks ago

**Selected Answer: D**

D d d d

upvoted 1 times

□ **kelibanlangen** 8 months ago

Serious?

upvoted 1 times

□ **Ngol** 11 months, 3 weeks ago

Definitely it cant be D!

upvoted 2 times

□ **louisaok** 12 months ago

C is correct

upvoted 3 times

□ **romateselkin** 1 year ago

C is correct

upvoted 3 times

□ **Az301301X** 1 year ago

**Selected Answer: C**

im going for C as well.

upvoted 4 times

□ **Schwami** 1 year ago

I think still C here. Icons are more easily accessible, even for people with color-blindness.

upvoted 4 times

## Question #34

## Topic 1

You plan to generate a line chart to visualize and compare the last six months of sales data for two departments.

You need to increase the accessibility of the visual.

What should you do?

- A. Configure a unique marker for each series.
- B. Replace long text with abbreviations and acronyms.
- C. Move important information to a tooltip.
- D. Configure a distinct color for each series.

**Correct Answer: D**

*Community vote distribution*



≡ **Maazi** Highly Voted 1 year ago

I will go for A. See Markers at  
<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports>  
 upvoted 10 times

≡ **nbagchi** Highly Voted 1 year ago

Selected Answer: A

Both A and D are good options. However if you think carefully, even with distinct colors, it is possible to still not be accessible for color blind people. The safest option to make it accessible is to use different markers to make a clear distinction  
 upvoted 8 times

≡ **Deloro** Most Recent 3 months, 2 weeks ago

Selected Answer: A

A avoid depending on colors to make something clear, so different colors of the lines is to be avoided to make your CASE >>> icons or text >> option A  
 upvoted 1 times

≡ **SamuComqi** 4 months, 2 weeks ago

Selected Answer: A

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
 My answer was:  
 - Configure a unique marker for each series  
 upvoted 3 times

≡ **Habibi123** 5 months ago

Selected Answer: A

There is not noted that markers are visible in the chart - so safest option to take is A  
 upvoted 1 times

≡ **Alborz** 5 months ago

Selected Answer: C

Tooltips are an important accessibility feature in Power BI that allows users to access additional information associated with data points on visualizations. By moving important information to a tooltip, users with various abilities, including those using screen readers or navigating the report by keyboard, can easily access and understand the data without cluttering the main visualization.  
 By placing relevant information in tooltips, users can hover or click on data points to view details without overwhelming the visual with too much information. This approach ensures that critical data is readily available to all users and enhances the accessibility of the report.  
 upvoted 1 times

≡ **Eltooth** 7 months ago

Selected Answer: A

A is correct answer.  
 upvoted 2 times

≡ **dera23** 11 months, 3 weeks ago

A is the right answer  
 upvoted 5 times

≡ **Ramiel** 1 year ago

Selected Answer: A

Agreed, safest option is A

upvoted 5 times

✉ **AT96** 1 year ago

correct answer

upvoted 1 times

### Question #35

Topic 1

You have the following Python code in an Apache Spark notebook.

```
import matplotlib.pyplot as plt
import numpy as np
ys = 300 + np.random.randn(100)
x = [x for x in range(len(ys))]
plt.plot(x, ys, '-')
plt.fill_between(x, ys, 395, where=(ys > 395), facecolor='g', alpha=0.5)
plt.title("Chart Sample")
plt.show()
```

Which type of chart will the code produce?

- A. a stacked bar chart
- B. an area chart
- C. a bar chart
- D. a pie chart

**Correct Answer: B**

*Community vote distribution*

**B (100%)**

✉ **louisao** Highly Voted 12 months ago

**Selected Answer: B**

Fill\_between is the key.  
The fill\_between() function

<https://www.python-graph-gallery.com/area-plot/>  
upvoted 8 times

✉ **sheilawu** Most Recent 3 months ago

**Selected Answer: B**

fill\_between = area chart  
upvoted 1 times

✉ **Eltooth** 6 months, 1 week ago

**Selected Answer: B**

B is correct answer.  
upvoted 1 times

✉ **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

b is correct answer  
upvoted 2 times

✉ **AT96** 1 year ago

correct answer  
upvoted 4 times

✉ **Chk88** 1 year ago

specifically line chart. tested  
upvoted 1 times

## Question #36

## Topic 1

You are creating a Python visual in Power BI Desktop.  
You need to retrieve the value of a column named Unit Price from a DataFrame.  
How should you reference the Unit Price column in the Python code?

- A. dataset['Unit Price']
- B. ('Unit Price')
- C. pandas.DataFrame('Unit Price')
- D. data = [Unit Price]

**Correct Answer: C**

*Community vote distribution*



✉️ **JasonVu** Highly Voted 1 year ago

I think answer should be A

upvoted 14 times

✉️ **louisaok** Highly Voted 11 months, 2 weeks ago

Selected Answer: A

it should be A.

dataset['Unit Price'], => (return a column)  
pandas.DataFrame('Unit Price'), => (show the entire table)  
upvoted 8 times

✉️ **sheilawu** Most Recent 3 months ago

Selected Answer: A

definitely a is the answer

upvoted 1 times

✉️ **PrudenceK** 6 months ago

Selected Answer: A

dataset['Unit Price'] is correct answer

upvoted 1 times

✉️ **PrudenceK** 6 months ago

Selected Answer: A

This syntax accesses the Unit Price column by specifying the column name within square brackets after the dataset object. Using dataset['Unit Price'] retrieves the values from the specified column for further processing or visualization in the Python visual.

upvoted 1 times

✉️ **Eltooth** 6 months, 1 week ago

Selected Answer: A

A is correct answer.

upvoted 1 times

✉️ **Plb2** 6 months, 1 week ago

Selected Answer: A

Should be A

upvoted 2 times

✉️ **ameer989** 6 months, 1 week ago

Selected Answer: A

A is the correct answer, been developing python scripts for years now and i only used dataset['column name']

upvoted 2 times

✉️ **missinglilo** 6 months, 2 weeks ago

From ChatGPT:

The correct answer is A. dataset['Unit Price']. This is the correct way to reference the Unit Price column in the Python code.

upvoted 2 times

✉️ **dev2dev** 8 months ago

**Selected Answer: A**

C is WRONG!  
upvoted 3 times

✉ **DarioReymago** 9 months, 1 week ago

**Selected Answer: A**

Is correct A  
[https://pandas.pydata.org/docs/getting\\_started/intro\\_tutorials/03\\_subset\\_data.html](https://pandas.pydata.org/docs/getting_started/intro_tutorials/03_subset_data.html)  
upvoted 4 times

✉ **HN\_3532** 10 months, 2 weeks ago

A is correct since it's how you select a column in pandas dataframe.  
[https://pandas.pydata.org/docs/getting\\_started/intro\\_tutorials/03\\_subset\\_data.html](https://pandas.pydata.org/docs/getting_started/intro_tutorials/03_subset_data.html)  
C is to initialize a new dataframe. In this case it will initialize a dataframe with each character as a column value (string is an iterable in Python)  
<https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.html>  
upvoted 3 times

✉ **AValester** 10 months, 3 weeks ago

**Selected Answer: A**

A. Sure  
upvoted 3 times

✉ **Fer079** 10 months, 2 weeks ago

do you have any example or reference?  
upvoted 1 times

✉ **taza31** 11 months, 1 week ago

**Selected Answer: A**

Question is so bad but the first param for a dataframe is data and  
a string cannot be dataset column just an index So for me A  
<https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.html>  
upvoted 3 times

✉ **master\_artiom1983** 11 months, 3 weeks ago

I think A, because:  
You can access columns in the dataset by using their names. For example, you can code dataset["Age"] in your Python script to access the age field.  
upvoted 2 times

✉ **abain89** 11 months, 3 weeks ago

I think A works  
upvoted 3 times

✉ **louisaok** 12 months ago

**Selected Answer: C**

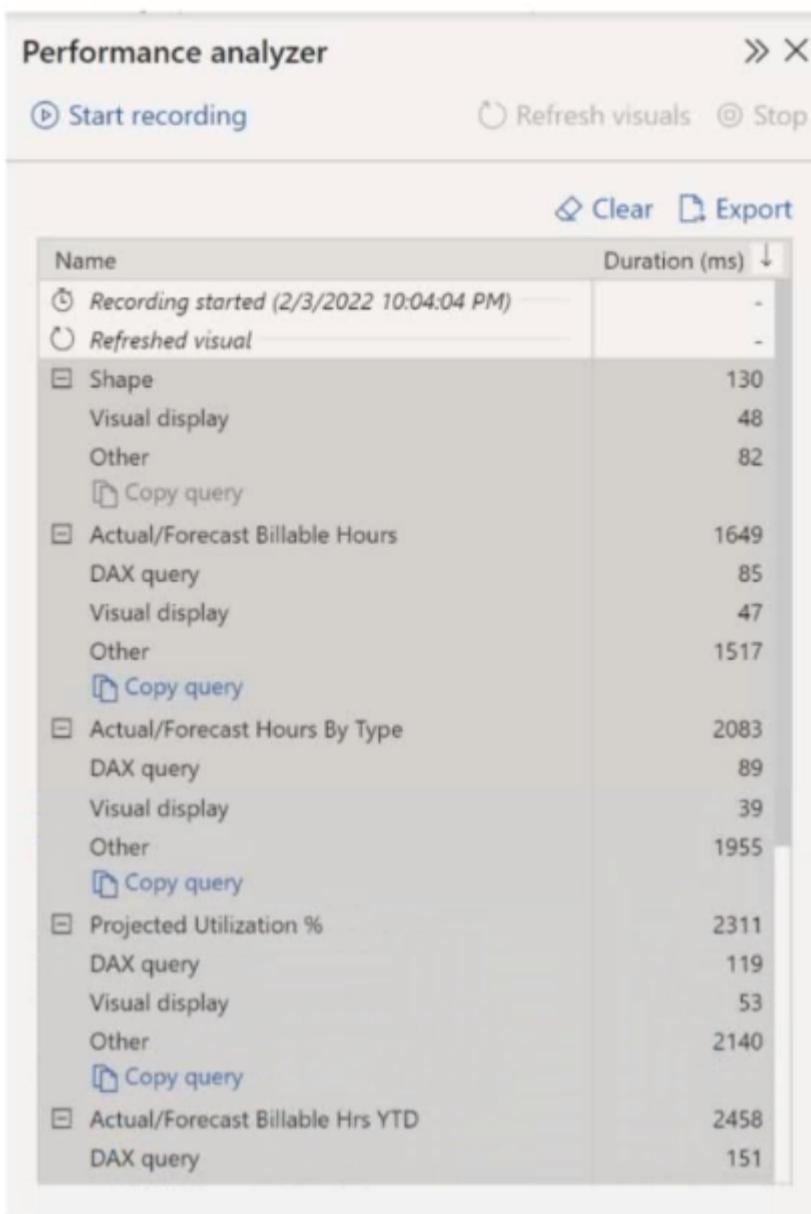
C is correct. This is used in Python.  
upvoted 2 times

## Question #37

## Topic 1

You open a Power BI Desktop report that contains an imported data model and a single report page.

You open Performance analyzer, start recording, and refresh the visuals on the page. The recording produces the results shown in the following exhibit.



What can you identify from the results?

- A. When all the visuals refresh simultaneously, the visuals spend most of the time waiting on other processes to finish.
- B. The Actual/Forecast Billable Hrs YTD visual displays the most data.
- C. Unoptimized DAX queries cause the page to load slowly.
- D. The Actual/Forecast Hours by Type visual takes a long time to render on the report page when the data is cross-filtered.

**Correct Answer: A**
*Community vote distribution*
A (100%)
User icon **nbagchi** Highly Voted thumb up icon 1 year ago

Selected Answer: A

Correct. The high value in 'other' generally represents that there are too many visuals on the page.  
upvoted 12 times

User icon **SamuComqi** Most Recent thumb up icon 4 months, 2 weeks ago

Selected Answer: A

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  
- When all the visuals refresh simultaneously, the visuals spend most of the time waiting on other processes to finish.  
upvoted 1 times

User icon **Eltooth** 7 months ago

Selected Answer: A

A is correct answer.  
upvoted 1 times

User icon **louisaoak** 12 months ago

**Selected Answer: A**

Other: this is the time spent waiting for other operations to complete. This is typically synchronization time between different visuals in the same page and should not be considered as a bottleneck of the visual being analyzed. It is usually waiting time caused by other pending operations performed by other visuals.

<https://community.powerbi.com/t5/Desktop/Performance-Analyzer-quot-Other-quot/mp/717848#:~:text=Other%3A%20this%20is%20the%20time,operations%20performed%20by%20other%20visuals.>

upvoted 4 times

## Question #38

## Topic 1

HOTSPOT -

You use Vertipaq Analyzer to analyze a model.

The Relationships tab contains the results shown in the following exhibit.

IsRowNumber Cardinality (Filter)	Relationship Type	Max From Cardinality	Max To Cardinality	1:M Ratio %	Missing Keys	Invalid Rows	Relationships Size	Bid. Filters	MMR
'Date' [Date] ==<-1 'LocalDateTable_39c22ddb-27f3-4e6c-8a44-a3380850fcba'[Date]	M:1	84	2,557	3044.05%	0	0	4,056		
Fact	M:1	90	327	0.69%	22		184		
'Fact'[BU Key]==<-1 'BU'[BU Key]	M:1	26	164	0.34%	0	0	32		
'Fact' [Customer Key] ==<-1 'Customer' [Customer]	M:1	90	327	0.69%	21	1,804	112		
'Fact' [Product Key] ==<-1 'Product' [Product Key]	M:1	7	6	0.01%	1	6,577	8		
'Fact' [Scenario Key] ==<-1 'Scenario' [Scenario Key]	M:1	2	2	0.00%	0	0	8		
'Fact' [YearPeriod] ==<-1 'Date' [YearPeriod]	M:1	16	84	0.18%	0	0	24		
<b>Grand Total</b>	<b>M:1</b>	<b>90</b>	<b>2,557</b>	<b>3044.05%</b>	<b>27</b>		<b>4,320</b>		

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

## Answer Area

The **[answer choice]** table is missing records needed by the Fact table.

BU Key
Customer
Date
Scenario

There are **[answer choice]** blank values created by missing dimensional relationships.

22
1,804
6,577
8,381

## Answer Area

The **[answer choice]** table is missing records needed by the Fact table.

Correct Answer:

BU Key
Customer
Date
Scenario

There are **[answer choice]** blank values created by missing dimensional relationships.

22
1,804
6,577
8,381

✉ KWaleed 1 year ago

I think the answer for 2nd drop down should be  $1,804 + 6,577 = 8,381$

There is a very good video explaining the concept on <https://www.youtube.com/watch?v=XvZyo9Kgyio&list=PLU6II7MW-aiIREc1XdCYviQEj4Ui2pNDS&index=3>

upvoted 13 times

✉ Chk88 1 year ago

Correct , we need to add them

upvoted 3 times

✉ Chk88 1 year ago

\*\*1804

upvoted 1 times

✉ Akin\_Eren 4 days, 3 hours ago

Customer and 8381

upvoted 1 times

✉ SamuComqi 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Customer
- 8381

upvoted 2 times

✉  **Eltooth** 6 months, 1 week ago

Customer  
8381

upvoted 1 times

✉  **Plb2** 6 months, 1 week ago

Customer & 22 is correct, only missing values due to dimensional relationship should be considered  
upvoted 2 times

✉  **solref** 9 months, 1 week ago

Customer and 8381 as a result of wrong relationships (1804 + 6577)  
upvoted 1 times

✉  **DS\_newb** 9 months, 1 week ago

still stand for Customer and 22  
Although invalid value will turn to blank, it is not from missing dem.. and if so, it should count  $1804+6577+22 = 8,403$   
upvoted 1 times

✉  **DS\_newb** 9 months, 1 week ago

change my mind as missing key <> missing data, then should 8,381  
upvoted 1 times

✉  **master\_artiom1983** 11 months, 3 weeks ago

Customer and  $1,804+6,577 = 8,381$   
upvoted 2 times

✉  **Az301301X** 12 months ago

Customer and 8381  
upvoted 2 times

## Question #39

## Topic 1

You use the Vertipaq Analyzer to analyze tables in a dataset as shown in the Tables exhibit. (Click the Tables tab.)

Name	Cardinality	Table Size	Col Size	Data	Dictionary	Hier Size
Plan	<b>627,876</b>	<b>22,823,464</b>	<b>21,147,552</b>	<b>6,697,272</b>	<b>10,293,184</b>	<b>4,157,096</b>
Forecast Amount	101,606	22,823,464	7,400,920	1,475,640	5,112,384	812,896
Budget Amount	101,596	22,823,464	7,400,024	1,475,640	5,111,568	812,816
Row ID	<b>627,876</b>	22,823,464	<b>4,185,992</b>	1,674,344	120	2,511,528
ProductKey	628	22,823,464	842,296	818,016	19,208	5,072
Sales	<b>858,789</b>	<b>20,968,092</b>	<b>18,674,660</b>	<b>12,182,384</b>	<b>2,587,004</b>	<b>3,905,272</b>
Row ID	<b>858,789</b>	20,968,092	<b>5,725,408</b>	2,290,112	120	3,435,176
SalesAmount	36,554	20,968,092	<b>2,960,560</b>	1,245,904	1,422,176	292,480
TotalCost	9,711	20,968,092	1,924,272	1,238,488	608,056	77,728
Sales ID	2,000	20,968,092	1,431,192	1,374,064	41,080	16,048
Date	1,095	20,968,092	1,428,968	1,373,856	46,312	8,800

The table relationships for the dataset are shown in the Relationships exhibit. (Click the Relationships tab.)

Table / Relationship	Size	Max From Cardinality	Max To Cardinality	1:M Ratio %	Missing Keys
Plan	<b>1,675,912</b>	<b>627,876</b>	<b>858,789</b>	<b>136.78%</b>	<b>7</b>
Plan[ProductKey] oo—1 Product[ProductKey]	848	628	629	0.10%	0
Plan[StoreKey] oo—1 Store[Store Key]	360	306	299	0.05%	7
Plan[GeographyKey] oo—1 Geography[GeographyKey]	312	263	263	0.04%	0
Plan[DateKey] oo—1 Month & Year Distinct[Date]	32	36	36	0.01%	0
Sales	<b>2,293,432</b>	<b>858,789</b>	<b>1,095</b>	<b>0.13%</b>	<b>858,793</b>
Sales[Date] oo—1 Calendar[Date]	1,760	1,095	1,095	0.13%	0
Sales[GeographyKey] oo—1 Geography[GeographyKey]	312	263	263	0.03%	0
Sales[PromotionKey] oo—1 Promotion[Promotion Key]	24	28	28	0.00%	0
Sales[channelKey] oo—1 Channel[ChannelKey]	8	4	4	0.00%	0
Sales[Row ID] oo—1 Plan Header Details[Row ID]	0	858,789	3	0.00%	858,786

You need to reduce the model size by eliminating invalid relationships.

Which column should you remove?

- A. Sales[Sales Amount]
- B. Sales[Row ID]
- C. Sales[Sales ID]
- D. Plan[Row ID]

**Correct Answer: B**

*Community vote distribution*

B (100%)

 **nbagchi**  1 year ago

**Selected Answer: B**

Correct, Row ID has 858,786 missing keys  
upvoted 8 times

 **MaryemSB**  1 week, 4 days ago

**Selected Answer: B**

agree with ivanb94  
upvoted 1 times

 **Eltooth** 7 months ago

**Selected Answer: B**

B is correct answer - 858,756 missing keys!  
upvoted 1 times

 **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

B is the only one listed in 2° table  
upvoted 1 times

 **ivanb94** 12 months ago

To be precise RowID from the Sales table, so answer B, not the other provided potential answer with Plan table. P.S. Plan table seems to be made up considering that it is not mentioned in either of the pictures --> only Plan Header Details is. Another Microsoft confusion device -.-  
upvoted 3 times

MrXBasit 1 year ago

Selected Answer: B

858,786

upvoted 2 times

## Question #40

Topic 1

You are optimizing a Power BI data model by using DAX Studio.

You need to capture the query events generated by a Power BI Desktop report.

What should you use?

- A. the DMV list
- B. a Server Timings trace
- C. an All Queries trace
- D. a Query Plan trace

Correct Answer: C

Community vote distribution

C (100%)

Az301301X Highly Voted 1 year ago

Selected Answer: C

yep, I would go for C. <https://www.sqlbi.com/articles/capturing-power-bi-queries-using-dax-studio/>

upvoted 6 times

Eltooth Most Recent 6 months, 1 week ago

Selected Answer: C

C is correct answer.

upvoted 1 times

Chk88 1 year ago

Selected Answer: C

C = Correct

upvoted 3 times

stfglv 11 months, 3 weeks ago

yup, the first sentence says it all: <https://daxstudio.org/docs/features/traces/all-queries-trace/>

upvoted 2 times

nbagchi 1 year ago

Selected Answer: C

I believe C is correct

Check out this link: <https://www.sqlbi.com/articles/capturing-power-bi-queries-using-dax-studio/>

upvoted 4 times

AT96 1 year ago

incorrect answer

To capture the query events generated by a Power BI Desktop report, you can use a Server Timings trace in DAX Studio. A Server Timings trace is a diagnostic tool that records the time taken by each query event in the Power BI Desktop report, allowing you to identify any bottlenecks and optimize the data model accordingly.

upvoted 1 times

ivanb94 12 months ago

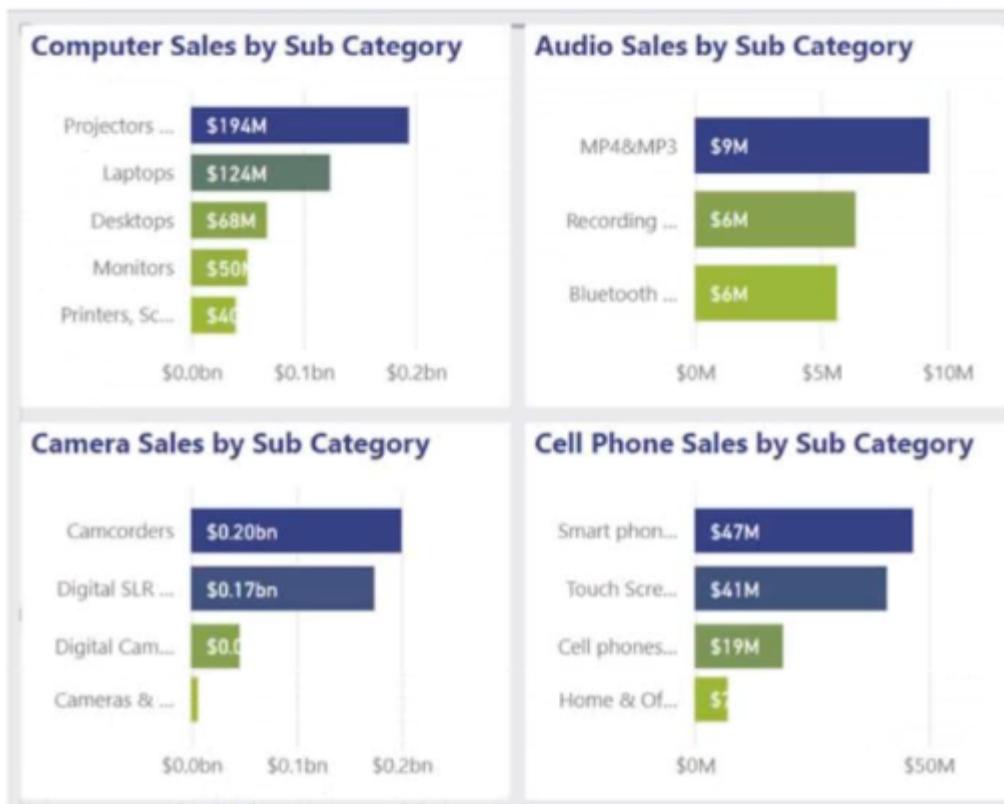
I don't see why we would use Server Timings trace considering the main purpose of that is to check the time needed for a query (as the name suggests), while the question says nothing about the time element and only gives the requirement to capture the query events. That you can definitely do with C alone.

upvoted 3 times

## Question #41

You have a sales report as shown in the following exhibit.

Sales Quantity	Return Quantity	Net Quantity
13.63M	124.82K	13.51M



The sales report has the following characteristics:

The measures are optimized.

The dataset uses import storage mode.

Data points, hierarchies, and fields cannot be removed or filtered from the report page.

From powerbi.com, users experience slow load times when viewing the report.

You need to reduce how long it takes for the report to load without affecting the data displayed in the report.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Change the report theme to monochromatic.
- B. Replace the single-value cards with a multi-row card.
- C. Replace the product category charts with a bar chart for sales and a hierarchy of Category and Sub Category on the axis.
- D. Replace all the filters on the Filters pane with visual slicers on the report page.

**Correct Answer: BC**

*Community vote distribution*

BC (100%)

✉ **nbagchi** 1 year ago

**Selected Answer: BC**

Correct answer

upvoted 10 times

✉ **ivanb94** 12 months ago

I would go with BC too bc both actions are actually just reducing the number of visuals in the report by providing the same amount of information with a single chart instead of multiple. Generally it is a best practice to decrease the number of visuals to improve performance e.g. speed up rendering times so the answer is actually straight forward but Microsoft had to make it sound complicated

upvoted 9 times

✉ **Eltooth** 6 months, 1 week ago

**Selected Answer: BC**

B and C are correct answers.

upvoted 1 times

✉ **abain89** 11 months, 3 weeks ago

great explanation by ivanb94

upvoted 2 times

✉ **JasonVu** 1 year ago

I think it should be C,D

upvoted 1 times

✉ **JasonVu** 1 year ago

Forget it, Filter pane actually helps improve the performance of report so it should be C,B

upvoted 5 times

## Question #42

## Topic 1

You are building a Power BI dataset that will use two data sources.

The dataset has a query that uses a web data source. The web data source uses anonymous authentication.

You need to ensure that the query can be used by all the other queries in the dataset.

Which privacy level should you select for the data source?

- A. None
- B. Organizational
- C. Public
- D. Private

**Correct Answer:** C

*Community vote distribution*



✉ **nbagchi** 1 year ago

**Selected Answer: C**

Answer is correct.

If the report has only one data source, there is no need to change this privacy level (None is the default) because there is no risk of exposing data between various sources. However, as soon as a second data source is created in the report, Power BI asks for the privacy level to be determined for both data sources because it cannot be kept to None now. So choosing it to Public is the correct option.

upvoted 11 times

✉ **Alborz** 5 months ago

**Selected Answer: D**

Option C: Public is not the correct privacy level to select in this scenario. Choosing the "Public" privacy level would allow the data source query to be shared with other users, making the data accessible to them. However, using the "Public" privacy level for a web data source with anonymous authentication can potentially expose sensitive information to unauthorized users.

In this case, selecting the "Private" privacy level is the appropriate choice because it allows the data source query to access the web data source with anonymous authentication without any privacy restrictions, ensuring that other queries in the dataset can use the data returned by this web data source query.

upvoted 1 times

✉ **Eltooth** 7 months ago

**Selected Answer: C**

C is correct answer.

upvoted 1 times

✉ **Maazi** 1 year ago

**Selected Answer: C**

Check this out Ref: <https://learn.microsoft.com/en-us/power-bi/enterprise/desktop-privacy-levels>

upvoted 4 times

✉ **AT96** 1 year ago

correct answer is A.

To ensure that a query that uses a web data source with anonymous authentication can be used by all the other queries in a Power BI dataset, you should select the None privacy level for the data source. The None privacy level allows all the queries in the dataset to access the data from the web data source, regardless of whether the data source uses anonymous authentication.

upvoted 2 times

✉ **stfglv** 11 months, 3 weeks ago

it cannot be None because this level stops being a viable option as soon as the PBI desktop report has more than one source which is explicitly emphasized in the question (probably exactly to avoid people answering with None)

upvoted 1 times

## Question #43

## Topic 1

## DRAG DROP -

You manage a Power BI dataset that queries a fact table named SalesDetails. SalesDetails contains three date columns named OrderDate, CreatedOnDate, and ModifiedDate.

You need to implement an incremental refresh of SalesDetails. The solution must ensure that OrderDate starts on or after the beginning of the prior year.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

**Actions****Answer Area**

Create RangeStart and RangeEndDateTime parameters.

Configure an incremental refresh to archive data that starts one year before the refresh date.

Add an applied step that filters OrderDate to the start of the prior year.



Configure an incremental refresh to archive data that starts two years before the refresh date.

Add an applied step that adds a custom date filter where OrderDate is between RangeStart and RangeEnd.

**Correct Answer:**

**Answer Area**

Create RangeStart and RangeEndDateTime parameters.

Add an applied step that adds a custom date filter where OrderDate is between RangeStart and RangeEnd.

Configure an incremental refresh to archive data that starts two years before the refresh date.

Add an applied step that filters OrderDate to the start of the prior year.

✉️ **MaryemSB** 3 weeks, 5 days ago

it's required to exclude data before start of prior year, so, best practice is to filter it out first.  
if we are in June 2023, then all data we have is 1 year and 6 months.

data will be split into 1 year of incremental refresh and 6 months will be archived. we can't use the option "configure IR to archive data 2 years before refresh date" otherwise, IR will have no sense!

solution is :

1. filter prior year
2. create parameters
3. create custom filter for date
4. configure incremental refresh ONE YEAR BEFORE REFRESH DATE

upvoted 1 times

✉️ **MaryemSB** 1 week, 4 days ago

small adjustment: 1 year will be archived and 6 months will be incrementally refreshed  
upvoted 1 times

✉  **Deloro** 3 months, 2 weeks ago

create  
filter based on start and end  
refresh 2 years, start of previous needs to be included  
upvoted 1 times

✉  **Plb2** 6 months, 1 week ago

I feel there's an error in the answers.  
It should be (create parameters, filter orderdata on parameters and then)  
configure incr refresh to archive data 2 years before refresh date  
configure incr refresh to incrementally refresh (instead of archive) data since 1 year before refresh date  
upvoted 4 times

✉  **hoss29** 4 months, 2 weeks ago

I think the answer provided is correct, because we have to consider a refresh date that occurs in june 2023 for example, which means we need to refresh from Jan 2022 onwards, and that cannot be done by "configure incr refresh to incrementally refresh (instead of archive) data since 1 year before refresh date". After the first 2 steps, we need to first archive the last 2 years and then filter OrderDate to the start of the prior year.  
upvoted 1 times

✉  **DarioReymago** 9 months, 1 week ago

<https://learn.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-configure>  
is ok  
upvoted 1 times

✉  **DarioReymago** 9 months, 1 week ago

I mean, I not sure why archive 2years before. I prefer 1 year before  
upvoted 2 times

✉  **fdsdfgxcvbdsfhshfg** 8 months, 2 weeks ago

yeah it's weird, but if it has to be 4 steps...  
upvoted 1 times

✉  **Deloro** 3 months, 2 weeks ago

2 years, so you always include start of prior year ?  
upvoted 1 times

✉  **stfglv** 11 months, 3 weeks ago

I don't understand why would we need four steps. I would say that the first 3 steps should be 1. create RangeStart and RangeEnd parameters 2. filter the OrderDate column using a customer filter based on these two parameters 3. configure an incremental refresh to archive data before the last two years. But after that you should arguably publish the report and do a manual refresh as explained here <https://learn.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-overview>. So what is this 4th step supposed to do?  
upvoted 2 times

✉  **fdsdfgxcvbdsfhshfg** 8 months, 2 weeks ago

Let's suppose we're in 2023 and the solution requires us to have OrderDate starting on or after the beginning of the prior year (so 2022 onward):

1. Create RangeStart RangeEnd - obviously
2. Add an applied step to filter our dates between these two params - obviously
3. Create an incremental refresh to archive data that starts ONE YEAR BEFORE THE REFRESH DATE.

Now what that third step does is all we need for the solution - it creates a yearly partition for the entire 2022, and the quarterly/monthly partitions in the current 2023 year. We don't need any additional filtering.

The same can be achieved in 4 steps, with last 2 years being archived (2021, 2022) and then by filtering OrderDate to the start of the prior year.

So two approaches are possible in here, but we should select the 4-steps one.

[https://youtu.be/Kui\\_1G6kQIQ?t=466](https://youtu.be/Kui_1G6kQIQ?t=466)

Correct me If I'm wrong

upvoted 3 times

✉  **stfglv** 11 months, 1 week ago

Just realized that filtering OrderDate to start of previous year is also needed (but does not have to be the 4th step, can even be the first thing) gives us the subset of data that is relevant since the question more/less states that nothing before that matters. Also this type of filtering determines that the incremental policy should not affect the last two years but only the previous year.

upvoted 3 times

✉  **nbagchi** 1 year ago

Correct

upvoted 4 times

## Question #44

## Topic 1

## DRAG DROP -

You plan to create a Power BI report that will use an OData feed as the data source. You will retrieve all the entities from two different collections by using the same service root.

The OData feed is still in development. The location of the feed will change once development is complete.

The report will be published before the OData feed development is complete.

You need to minimize development effort to change the data source once the location changes.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions****Answer Area**

From Advanced Editor, get data from an OData feed source and use the parameter to populate the last part of the URL.

From Advanced Editor, reference the query and change the resource path in the URL.

Create a parameter that contains the service root URI.



From Advanced Editor, duplicate the query and change the resource path in the URL.

Get data from an OData feed source and use the parameter to populate the first part of the URL.

**Answer Area**

Create a parameter that contains the service root URI.

**Correct Answer:**

Get data from an OData feed source and use the parameter to populate the first part of the URL.

From Advanced Editor, duplicate the query and change the resource path in the URL.

**MaryemSB** 3 weeks, 5 days ago

correct

upvoted 1 times

**konitoki** 5 months, 2 weeks ago

I would consider populating LAST part of the query with parameter as we are going to use the same service root, and as per link service root is the first part of the query

<https://learn.microsoft.com/en-us/odata/concepts/url-components>

upvoted 1 times

**konitoki** 5 months, 2 weeks ago

Changed my mind, this parameter should replace first part of the URL

upvoted 2 times

**Eltooth** 6 months, 1 week ago

Create

Get data

Duplicate

upvoted 4 times

**DarioReymago** 9 months, 1 week ago

is ok, the last step (duplicate) is because it needed a 2do collection

upvoted 2 times

✉  **taza31** 11 months, 1 week ago

Correct

upvoted 1 times

✉  **ivanb94** 12 months ago

I don't see why the last step would be duplicating the query from the Advanced Editor so I would go with so I would go with changing the resource path as the last step

upvoted 4 times

✉  **ThariCD** 10 months, 3 weeks ago

You need two collections, that's why you need to duplicate the query and change the resource path in the URL to the second collection once you've duplicated the query. The answer is correct.

upvoted 2 times

✉  **AshwinN1992** 12 months ago

Please confirm the answer

upvoted 1 times

## Question #45

## Topic 1

DRAG DROP -

You have an Azure Synapse Analytics serverless SQL pool.

You need to return a list of files and the number of rows in each file.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Values**

APPROX\_COUNT\_DISTINCT  
COUNT\_BIG  
OPENDATASOURCE  
OPENJSON  
OPENQUERY  
OPENROWSET

**Answer Area**

```
SELECT
    asa.filename() AS [filename]
    , [ ] (*) AS [rows]
FROM
    [ ]
BULK 'parquet/production/year=2017/month=9/*.parquet',
DATA_SOURCE = 'DataLake1',
FORMAT= 'PARQUET'
) asa
GROUP BY [filename]
```

**Answer Area**

```
SELECT
    asa.filename() AS [filename]
    , APPROX_COUNT_DISTINCT(*) AS [rows]
FROM
    OPENROWSET
        BULK 'parquet/production/year=2017/month=9/*.parquet',
        DATA_SOURCE = 'DataLake1',
        FORMAT= 'PARQUET'
    ) asa
GROUP BY [filename]
```

**Correct Answer:**

 **bad\_atitude**  11 months ago

Count Big  
OpenRowSet  
upvoted 10 times

 **MaryemSB**  3 weeks, 4 days ago

COUNT\_BIG  
OPENROWSET  
upvoted 1 times

 **SamuComqi** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  
- COUNT\_BIG  
- OPENROWSET  
upvoted 2 times

 **Etooth** 6 months, 1 week ago

Count\_Big  
OpenRowSet  
upvoted 1 times

 **DarioReymago** 9 months, 1 week ago

COUNT\_BIG use \*,  
<https://learn.microsoft.com/en-us/sql/t-sql/functions/count-big-transact-sql?view=sql-server-ver16>  
and OpenRowSet  
upvoted 3 times

 **Madiba\_kaka** 11 months, 2 weeks ago

Since parquet file can be very big, the APPROX\_COUNT\_DISTINCT makes sense because it's designed for use in big data scenarios. Also, APPROX\_COUNT\_DISTINCT requires less memory than an exhaustive COUNT DISTINCT operation. With very big file an approximate row count will suffice as opposed to an exact count. <https://learn.microsoft.com/en-us/sql/t-sql/functions/approx-count-distinct-transact-sql?view=sql-server-ver16>

upvoted 3 times

✉ **moreinva43** 12 months ago

I can find no example of using approx\_count\_distinct with an asterisk, while I know it can be used with count\_big.

upvoted 4 times

✉ **ivanb94** 12 months ago

Not only that but the count\_big actually counts rows (check here <https://learn.microsoft.com/en-us/sql/t-sql/functions/count-big-transact-sql?view=sql-server-ver16>) which is what the Q asks us to do instead of counting non-null values that can repeat across multiple rows (check here <https://learn.microsoft.com/en-us/sql/t-sql/functions/approx-count-distinct-transact-sql?view=sql-server-ver16>) making approx\_count\_distinct the wrong answer. Not to mention the approximation element of it all that has no place in the given question.

upvoted 8 times

✉ **Ngol** 11 months, 3 weeks ago

Your comment makes sense from the links provided

upvoted 3 times

✉ **nbagchi** 1 year ago

Correct

upvoted 3 times

## Question #46

## Topic 1

## HOTSPOT -

You have an Azure Synapse Analytics serverless SQL pool and an Azure Data Lake Storage Gen2 account.

You need to query all the files in the 'csv/taxi/' folder and all its subfolders. All the files are in CSV format and have a header row.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
SELECT*
FROM OPENROWSET (
    BULK 'csv/taxi',
    BULK 'csv/taxi/**',
    BULK 'csv/taxi/*.csv',
    BULK 'csv/taxi/',
    DATA_SOURCE = 'datalake',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIRSTROW = 0
    FIRSTROW = 1
    FIRSTROW = -1
    FIRSTROW = 2
)
WITH (
    pickup_datetime DATETIME2,
    passenger_count INT,
    trip_distance FLOAT,
    total_amount FLOAT
) AS nyc;
```

## Answer Area

```
SELECT*
FROM OPENROWSET (
    BULK 'csv/taxi',
    BULK 'csv/taxi/**',
    BULK 'csv/taxi/*.csv',
    BULK 'csv/taxi/'
```

Correct Answer:

```
DATA_SOURCE = 'datalake',
FORMAT = 'CSV', PARSER_VERSION = '2.0',
FIRSTROW = 0
FIRSTROW = 1
FIRSTROW = -1
FIRSTROW = 2
)
WITH (
    pickup_datetime DATETIME2,
    passenger_count INT,
    trip_distance FLOAT,
    total_amount FLOAT
) AS nyc;
```

  Az301301X  1 year ago

it says: query all folders and subfolders, hence /\*\* .

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-folders-multiple-csv-files#traverse-folders-recursively>

upvoted 18 times

  eekman  11 months, 1 week ago

Correct answer is

BULK 'csv/taxi/\*\*' : although 'csv/taxi/\*.csv' also works (tested it), the file extension is not specified. It can be the case that the files are .txt files but still in CSV format.

and FIRSTROW=2: you need to skip the headers (tested it). FIRSTROW=1 is the default value and will return the data including the headers.

upvoted 15 times

 **DarioReymago** 9 months, 1 week ago

thats correct

upvoted 1 times

 **Eltooth** Most Recent 6 months, 1 week ago

BULK 'csv/taxi/\*\*'

FIRSTROW=2

upvoted 3 times

 **cookiemonster42** 11 months, 1 week ago

1) [https://mydatalake.blob.core.windows.net/data/files/\\*\\*](https://mydatalake.blob.core.windows.net/data/files/**): All files in the files folder, and recursively its subfolders.

2) FIRSTROW=1 The FIRSTROW attribute isn't intended to skip column headers. Skipping headers isn't supported by the BULK INSERT statement. If you choose to skip rows, the SQL Server Database Engine looks only at the field terminators, and doesn't validate the data in the fields of skipped rows.

<https://learn.microsoft.com/en-us/training/modules/query-data-lake-using-azure-synapse-serverless-sql-pools/3-query-files>

<https://learn.microsoft.com/en-us/sql/t-sql/statements/bulk-insert-transact-sql?view=sql-server-ver16>

upvoted 3 times

 **cookiemonster42** 11 months ago

Sorry pals, I'd like to change my opinion, there's no FIRST ROW = TRUE in the code, so the FIRSTROW = 2 in this particular case

upvoted 1 times

 **cookiemonster42** 11 months ago

Sorry again, no HEADER = TRUE

upvoted 1 times

 **MrXBasit** 1 year ago

Serverless SQL pool can recursively traverse folders if you specify /\*\* at the end of path. The following query will read all files from all folders and subfolders located in the csv/taxi folder.

The answer is correct.

upvoted 2 times

 **ivanb94** 12 months ago

How can it be correct when the given solution does not have /\*\* at the end? You probably meant to say that the solution with /\*\* is correct. I agree, obviously.

upvoted 3 times

 **cherious** 1 year ago

The answer is correct:

[https://mydatalake.blob.core.windows.net/data/files/file\\*.csv](https://mydatalake.blob.core.windows.net/data/files/file*.csv): All .csv files in the files folder with names that start with "file".

Source: <https://learn.microsoft.com/en-us/training/modules/query-data-lake-using-azure-synapse-serverless-sql-pools/3-query-files>

And it should be FIRSTROW = 2, because it has headers.

In the example (follow the link below), you can see that when the file has now header then FIRSTROW = 1.

Source: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-openrowset#read-specific-columns-from-csv-file>

In Source

upvoted 2 times

 **nbagchi** 1 year ago

Correct answer is

BULK 'csv/taxi/\*\*' and FIRSTROW=1

upvoted 3 times

 **Az301301X** 1 year ago

FIRSTROW=2, remember the "headers".

upvoted 8 times

 **ABHI2023** 1 year ago

FIRSTROW=2 , as first row is header , Reference : <https://learn.microsoft.com/en-us/training/modules/query-data-lake-using-azure-synapse-serverless-sql-pools/3-query-files?ns-enrollment-type=learningpath&ns-enrollment-id=learn.wwl.model-query-explore-data-for-azure-synapse>

upvoted 5 times

 **AT96** 1 year ago

Correct answer is BULK 'adl://<your\_adls\_account\_name>.dfs.core.windows.net/csv/taxi/>,

upvoted 1 times

## Question #47

## Topic 1

You have a group of data scientists who must create machine learning models and run periodic experiments on a large dataset.

You need to recommend an Azure Synapse Analytics pool for the data scientists. The solution must minimize costs.

Which type of pool should you recommend?

- A. a Data Explorer pool
- B. an Apache Spark pool
- C. a dedicated SQL pool
- D. a serverless SQL pool

**Correct Answer:** B

*Community vote distribution*

B (100%)

✉️  **gerryboy** 4 months, 1 week ago

**Selected Answer: B**

an Apache Spark pool

upvoted 1 times

✉️  **orionduo** 4 months, 1 week ago

**Selected Answer: B**

Machine learning models can be trained with help from various algorithms and libraries. Spark MLlib offers scalable machine learning algorithms that can help solving most classical machine learning problems

upvoted 1 times

✉️  **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

b is correct

upvoted 1 times

✉️  **Chk88** 1 year ago

Correct

upvoted 2 times

✉️  **ivanb94** 12 months ago

I would agree based on this <https://learn.microsoft.com/en-us/azure/synapse-analytics/machine-learning/what-is-machine-learning>

upvoted 2 times

## Question #48

## Topic 1

## HOTSPOT -

You have an Azure Data Lake Storage Gen 2 container that stores more than 300,000 files representing hourly telemetry data. The data is organized in folders by the year, month, and day according to when the telemetry was captured.

You have the following query in Power Query Editor.

```
let
    Source = AzureStorage.Blobs("https://tmppbie01.blob.core.windows.net/logs/"),
    Filtered = Table.SelectRows(Source, each Text.StartsWith([Name], "2019/12/"),
        and [Extension] = ".csv"),
    Transformed = Table.AddColumn(Filtered, "Transformed", each TransformFiles([Content])),
    Limited = Table.SelectColumns(Transformed, "Transformed"),
    Expanded = Table.ExpandTableColumn(Limited, "Transformed", {"Date", "Name", "Activity"}),
    Final = Table.TransformColumnTypes(Expanded,
        {"Date", type date}, {"Name", type text}, {"Activity", type text}))
in
    Final
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

**Answer Area**

Statements	Yes	No
The query uses the hierarchical namespace of the storage account.	<input type="radio"/>	<input type="radio"/>
The query uses a custom function to load file data.	<input type="radio"/>	<input type="radio"/>
Changing the source to use <code>AzureStorage.DataLake</code> will reduce the load time of the query.	<input type="radio"/>	<input type="radio"/>

**Answer Area**

Statements	Yes	No
Correct Answer: The query uses the hierarchical namespace of the storage account.	<input checked="" type="checkbox"/>	<input type="radio"/>
The query uses a custom function to load file data.	<input type="radio"/>	<input checked="" type="checkbox"/>
Changing the source to use <code>AzureStorage.DataLake</code> will reduce the load time of the query.	<input checked="" type="checkbox"/>	<input type="radio"/>

 **eekman** Highly Voted 11 months, 1 week ago

1. No: the endpoint for HNS is dfs not blob. <https://learn.microsoft.com/en-us/azure/storage/blobs/upgrade-to-data-lake-storage-gen2-how-to?tabs=azure-portal#migrate-data-workloads-and-applications>
  2. No
  3. Yes
- upvoted 19 times

 **nbagchi** Highly Voted 1 year ago

I think the answers are correct.  
Check this: <https://learn.microsoft.com/en-us/powerquery-m/azurestorage-datalake>  
upvoted 9 times

 **Chk88** 1 year ago

it is correct  
upvoted 3 times

 **salvalcaraz** Most Recent 2 weeks, 1 day ago

1. Yes: I use ADLS Gen 2 blobs at work at it does not allow hierarchical namespaces.
  2. No
  3. Yes
- upvoted 1 times

 **fireofsea** 4 months ago

I think answer is

No

Yes

No

upvoted 1 times

✉ **fireofsea** 4 months ago

For in Editor uses "Table.AddColumn" and "TransformFiles" to load file data

upvoted 1 times

✉ **fireofsea** 4 months ago

Update

No

Yes

Yes

upvoted 1 times

✉ **fireofsea** 4 months ago

if there is no function name in the script?

upvoted 1 times

✉ **fireofsea** 4 months ago

Sorry, Update

No

No

Yes

upvoted 1 times

✉ **SamuComqi** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- No

- No

- Yes

upvoted 2 times

✉ **AlanMont** 6 months, 3 weeks ago

I think the first one is "No" because HierarchicalNavigation is not an option for "AzureStorage.Blobs", see here: <https://learn.microsoft.com/en-us/powerquery-m/azurestorage-datalake>

HierarchicalNavigation is an option for AzureStorage.Datalake: <https://learn.microsoft.com/en-us/powerquery-m/azurestorage-datalake>

upvoted 6 times

## Question #49

## Topic 1

## HOTSPOT -

You manage a dataset that contains the two data sources as shown in the following table.

Data source	Type of data	Privacy level
Azure SQL database	Sensitive company data	Private
Microsoft SharePoint folder	Non-sensitive company data	Private

When you attempt to refresh the dataset in powerbi.com, you receive the following error message: “[Unable to combine data] Add Columns is accessing data sources that have privacy levels which cannot be used together. Please rebuild this data combination.”

You discover that the dataset contains queries that fold data from the SharePoint folder to the Azure SQL database.

You need to resolve the error. The solution must provide the highest privacy possible.

Which privacy level should you select for each data source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Azure SQL database:

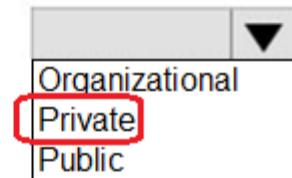


SharePoint folder:



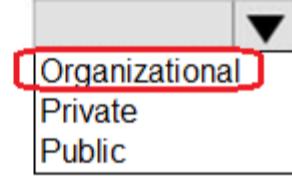
## Answer Area

Azure SQL database:



Correct Answer:

SharePoint folder:



Maazi Highly Voted 1 year ago

The answers ie Private and Organisational are correct.

Ref: <https://learn.microsoft.com/en-us/power-bi/enterprise/desktop-privacy-levels>

upvoted 12 times

Maazi 1 year ago

\*Organisational = Organizational

upvoted 2 times

Eltooth Most Recent 7 months ago

Agreed - Private and Organizational.

upvoted 1 times

stfgly 11 months ago

Sensitive data --> must be private. The other dataset could theoretically be public but why would it be when a higher privacy level is organizational and it seems appropriate for organizational data. The name says it all.

upvoted 1 times

Chk88 1 year ago

Answer correct, data type

upvoted 2 times

nbagchi 1 year ago

I would have selected the same  
upvoted 4 times

## Question #50

Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic. You need to reduce the number of measures, while maintaining the current functionality. Solution: From Power BI Desktop, you group the measures in a display folder. Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

*Community vote distribution*

 B (100%)

✉  **hoss29** 4 months, 2 weeks ago

**Selected Answer: B**

may be calculation groups would help reduce the number of measures  
upvoted 1 times

✉  **Eltooth** 7 months ago

**Selected Answer: B**

B is correct answer.  
upvoted 1 times

✉  **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

b is correct  
upvoted 2 times

✉  **ivanb94** 12 months ago

putting them in the same folder is just a cosmetic change that does not impact any underlying problems  
upvoted 2 times

✉  **Chk88** 1 year ago

correct, use dax grouping instead  
upvoted 1 times

✉  **sgodd\_0298** 8 months, 1 week ago

DAX grouping does not exist, you can GROUPBY as a DAX function.  
upvoted 1 times

✉  **nbagchi** 1 year ago

**Selected Answer: B**

Correct  
upvoted 1 times

## Question #51

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Tabular Editor, you create a calculation group.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

*Community vote distribution*

A (100%)

✉  **JasonVu**  1 year ago

Answer is Yes

upvoted 17 times

✉  **nbagchi**  1 year ago

**Selected Answer: A**

Answer should be Yes

upvoted 10 times

✉  **sheilawu**  3 months ago

**Selected Answer: A**

For reducing the measure , yes.

For reducing the speed, no.

upvoted 1 times

✉  **Eltooth** 7 months ago

**Selected Answer: A**

A is correct answer.

upvoted 1 times

✉  **DarioReymago** 9 months, 1 week ago

**Selected Answer: A**

CG reduce the number of measures

upvoted 2 times

✉  **solref** 9 months, 1 week ago

**Selected Answer: A**

Calculation groups reduce the number of redundant measures

upvoted 2 times

✉  **Denis06** 11 months, 3 weeks ago

Calculation group is needed.

<https://databear.com/calculation-groups-in-power-bi/>

upvoted 4 times

✉  **louisaok** 12 months ago

**Selected Answer: A**

Calculation groups can significantly reduce the number of redundant measures by grouping common measure expressions as calculation items.

upvoted 4 times

✉  **cherious** 1 year ago

**Selected Answer: A**

Yes. Calculation Group is the way to reduce the number of measures.

upvoted 4 times

✉  **Az301301X** 1 year ago

**Selected Answer: A**

Calculation group is needed.  
upvoted 4 times

## Question #52

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From DAX Studio, you write a query that uses grouping sets.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: A**

*Community vote distribution*

 B (100%)

  **nbagchi**  1 year ago

**Selected Answer: B**

Answer is No

upvoted 7 times

  **JasonVu**  1 year ago

Answer should be No

upvoted 5 times

  **Alborz**  5 months ago

**Selected Answer: B**

Using grouping sets in DAX Studio allows you to create groups of measures, but it does not reduce the number of measures in the dataset. Grouping sets are used to aggregate data across multiple dimensions in a query result, but they do not help in reducing the number of individual measures.

upvoted 1 times

  **Eltooth** 7 months ago

**Selected Answer: B**

B is correct answer. CG needed.

upvoted 1 times

  **DarioReymago** 9 months, 1 week ago

**Selected Answer: B**

dax studio has no grouping set and calculation groups neither

upvoted 3 times

  **solref** 9 months, 1 week ago

**Selected Answer: B**

Grouping set doesn't exist on DAX STUDIO

<https://community.powerbi.com/t5/Desktop/DAX-Grouping-Sets/m-p/2079648#M774276>

upvoted 3 times

  **Madiba\_kaka** 11 months, 1 week ago

DAX has no grouping set: <https://community.powerbi.com/t5/Desktop/DAX-Grouping-Sets/td-p/2078121>

upvoted 2 times

  **ivanb94** 12 months ago

According to this: <https://community.powerbi.com/t5/Desktop/DAX-Grouping-Sets/td-p/2078121>, there is no such thing as a grouping set in DAX so the answer has to be no

upvoted 3 times

## Question #53

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

<b>name</b>	<b>system_type_name</b>	<b>max_length</b>
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend defining an external table for the Parquet files and updating the query to use the table.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**
*Community vote distribution*
B (50%)
A (50%)

✉  **Az301301X** Highly Voted  1 year ago

You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. So, a View would do the trick, not an Ext Table, hence my answer would be NO. The correct in my opinion is a View.

upvoted 10 times

✉  **manolet** Most Recent  5 months ago

I choose B (NO) in the best practices reference it only mentions to Use CETAS to enhance query performance and joins:  
<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool>

upvoted 1 times

✉  **Alborz** 5 months ago

Selected Answer: A

Defining an external table for the Parquet files and updating the query to use the table can help reduce I/O reads and tempdb usage in Azure Synapse Analytics serverless SQL pool. By creating an external table, you are registering the Parquet files as a table in the database, which allows you to access the data directly without the need for OPENROWSET and schema inference. This can lead to improved query performance and reduced I/O and tempdb usage.

Using an external table can also simplify query development and improve data access efficiency. The table's metadata is maintained in the data catalog, which can help optimize query execution.

upvoted 2 times

✉  **manolet** 5 months ago

I don't find your explanation in the best practice reference page for serverless sql pool: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool>

upvoted 1 times

✉  **Eltooth** 7 months ago

Selected Answer: B

Bis correct answer.

upvoted 1 times

✉  **Sudhamisha** 7 months, 1 week ago

Correct answer is B

upvoted 1 times

✉  **Saffar** 11 months, 3 weeks ago

Selected Answer: B

I think it's B

upvoted 2 times

✉  **cherious** 1 year ago

**Selected Answer: A**

Can't recommend it definitely but I would go for the yes because it is considered optimal to always use external table in Serverless SQL pool.

Native external tables that you can use to read and export data in various data formats such as CSV and Parquet. Native external tables are available in serverless SQL pools, and they are in public preview in dedicated SQL pools. Writing/exporting data using CETAS and the native external tables is available only in the serverless SQL pool, but not in the dedicated SQL pools.

The native external tables are the recommended solution in the pools where they are generally available. If you need to access external data, always use the native tables in serverless pools. In dedicated pools, you should switch to the native tables for reading Parquet files once they are in GA.

Source: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables?tabs=hadoop>

upvoted 2 times

✉️ **cherious** 1 year ago

I have change my mind.

I have read that external tables are useful for smaller datasets such as reference data or dimensions. The answer would be no

Source: <https://www.serverlesssql.com/optimisation/external-tables-vs-views-which-to-use/>

upvoted 6 times

✉️ **Az301301X** 1 year ago

**Selected Answer: B**

No in my opinion.

upvoted 3 times

✉️ **nbagchi** 1 year ago

**Selected Answer: A**

We can define the schema in an External Table

Check this: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/develop-tables-external-tables?tabs=hadoop#create-external-table>

upvoted 2 times

✉️ **AT96** 1 year ago

Correct answer is A

upvoted 2 times

## Question #54

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend using OPENROWSET WITH to explicitly specify the maximum length for businessName and surveyName.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

Community vote distribution

A (56%)

B (44%)

✉ Fer079 Highly Voted 10 months, 3 weeks ago

Selected Answer: A

Parquet files don't contain metadata about maximum character column length. So serverless SQL pool infers it as varchar(8000).

You can see an example like this question in the following link:

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool#check-inferred-data-types>

upvoted 7 times

✉ solref 9 months, 1 week ago

It is exactly what I found! Thanks for sharing :)

upvoted 1 times

✉ Alborz Most Recent 5 months ago

Selected Answer: B

Using OPENROWSET WITH to explicitly specify the maximum length for businessName and surveyName does not meet the goal of reducing I/O reads and tempdb usage in Azure Synapse Analytics serverless SQL pool. Specifying the maximum length using OPENROWSET WITH will only enforce a length constraint on the columns but will not directly impact I/O reads or tempdb usage.

upvoted 1 times

✉ Samuel77 6 months ago

I will select B

upvoted 2 times

✉ Plb2 6 months, 1 week ago

Selected Answer: A

on 40M rows reducing the default varchar(8000) to a smaller size will improve I/O and tempDb.

upvoted 1 times

✉ DarioReymago 9 months ago

Selected Answer: B

by default inferred data types show varchar(8000) with or without WITH clause

upvoted 2 times

✉ solref 9 months ago

Selected Answer: A

Parquet files don't contain metadata about maximum character column length. So serverless SQL pool infers it as varchar(8000).

You can optimize inferred data types, using WITH to specify max length

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool#check-inferred-data-types>

upvoted 2 times

solref 9 months ago

Answer= NO . I correct myself: The Schema definition is a best practice, but it doesn't explain a reduction of IO.

Use proper collation reduces the I/O

Data in a Parquet file is organized in row groups. Serverless SQL pool skips row groups based on the specified predicate in the WHERE clause, which reduces IO. The result is increased query performance.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool#check-inferred-data-types>

upvoted 1 times

Maazi 1 year ago

**Selected Answer: B**

You don't need to use OPENROWSET WITH when reading Parquet files.

Ref: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-files>

upvoted 4 times

DS\_newb 9 months, 1 week ago

Check the Explicitly specify schema, I would vote A

upvoted 1 times

ivanb94 12 months ago

bc of the automatic schema that is even emphasized in the question scenario so I would definitely go with no as the correct answer.

upvoted 1 times

nbagchi 1 year ago

**Selected Answer: B**

Correct

upvoted 1 times

## Question #55

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend defining a data source and view for the Parquet files. You recommend updating the query to use the view.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

*Community vote distribution*

A (94%)

6%

cherious Highly Voted 1 year ago

Selected Answer: A

"views are generally faster and have more features such as OPENROWSET"

"External tables require an explicit defined schema while views can use OPENROWSET to provide automatic schema inference allowing for more flexibility (but note that an explicitly defined schema can provide faster performance)"

Source: <https://www.jamesserra.com/archive/2020/11/external-tables-vs-t-sql-views-on-files-in-a-data-lake/>

upvoted 8 times

Az301301X Highly Voted 1 year ago

Selected Answer: A

Yes. Views is my answer for auto schema.

upvoted 5 times

Alborz Most Recent 5 months ago

Selected Answer: A

When you define a data source and view for the Parquet files, you create metadata that specifies the schema of the data and its location. This eliminates the need for automatic schema inference during query execution, reducing I/O reads and improving performance.

upvoted 1 times

AN\_78 8 months, 3 weeks ago

Selected Answer: A

Views are recommended for large datasets because they can have partition pruning. External table don't and are recommended for smaller datasets

upvoted 1 times

Chk88 1 year ago

B correct

upvoted 1 times

nbagchi 1 year ago

Selected Answer: B

Correct

upvoted 1 times

Az301301X 1 year ago

this is the correct. "External tables" require an explicit defined schema while "views" can use OPENROWSET to provide "automatic schema inference" allowing for more flexibility.

upvoted 3 times

## Question #56

## Topic 1

## HOTSPOT -

You are creating a Power BI Desktop report.  
You add a Python visual to the report page.  
You plan to create a scatter chart to visualize the data.  
You add Python code to the Python script editor.  
You need to create the scatter chart.

How should you complete the Python code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
import chart as chart
    matplotlib.axes
    matplotlib.projections
    matplotlib.pyplot
    matplotlib.widgets

dataset.plot(kind= 'scatter', x= 'Age', y= 'Weight', color= 'red')

chart.clf()
chart.plot()
chart.show()
chart.triplet()
```

## Answer Area

Correct Answer:

```
import chart as chart
    matplotlib.axes
    matplotlib.projections
    matplotlib.pyplot
    matplotlib.widgets

dataset.plot(kind= 'scatter', x= 'Age', y= 'Weight', color= 'red')

chart.show()
```

✉  **nbagchi**  1 year ago

Correct

upvoted 7 times

✉  **Eltooth**  6 months, 1 week ago

matplotlib.pyplot  
chart.show()

upvoted 1 times

✉  **DarioReymago** 9 months ago

As Homer says: Exaaaaact  
...D'ouch!  
upvoted 1 times

✉  **soref** 9 months, 1 week ago

OK. checked it on:  
[https://www.w3schools.com/python/matplotlib\\_scatter.asp](https://www.w3schools.com/python/matplotlib_scatter.asp)  
upvoted 1 times

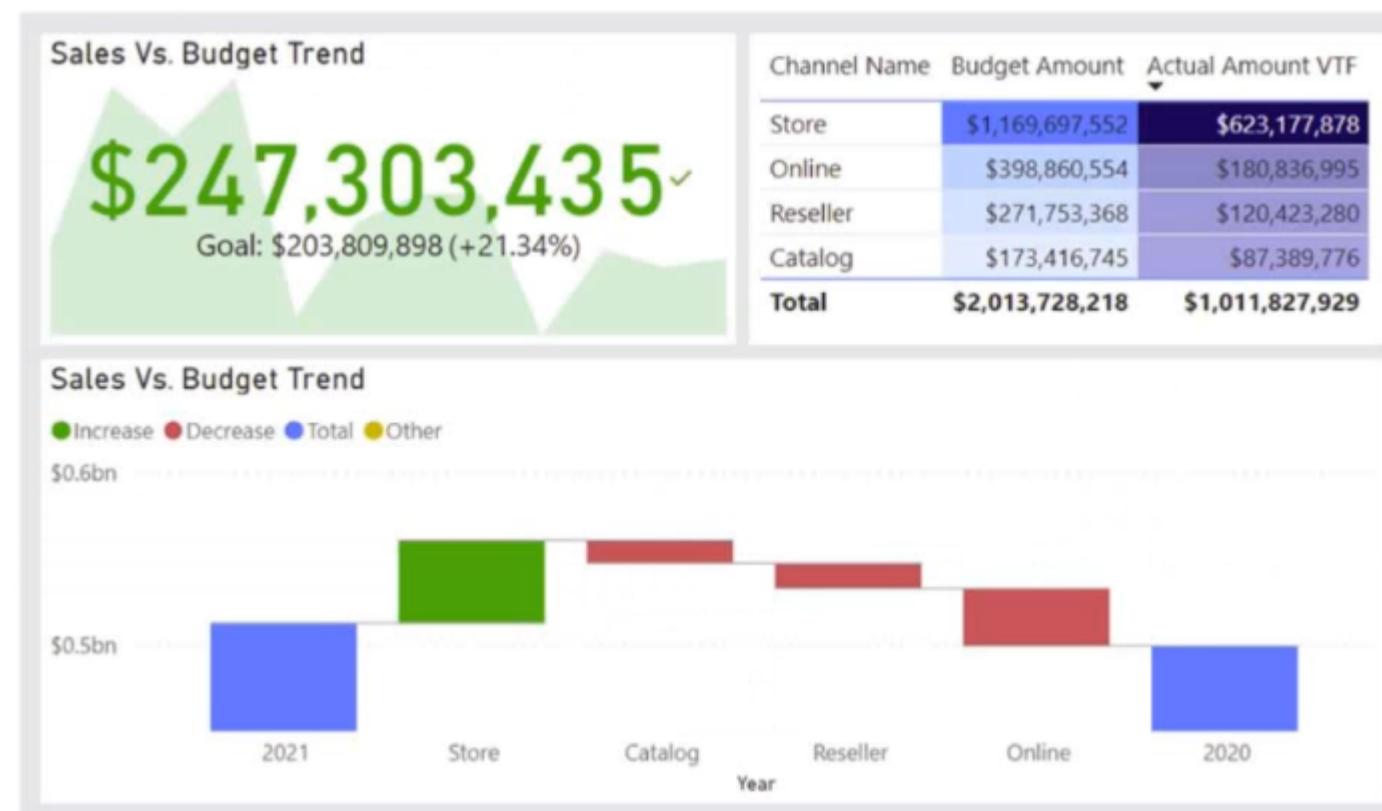
✉  **ivanb94** 12 months ago

In a few different Qs from this site examples of Python code contain the exact same parts of code that the provided answers suggest, so if this is not correct, Microsoft ppl making the Q would contradict themselves. There's your reassurance that the answers are correct.  
upvoted 2 times

## Question #57

## Topic 1

You are configuring a Power BI report for accessibility as shown in the following table.



You need to change the default colors of all three visuals to make the report more accessible to users who have color vision deficiency.

Which two settings should you configure in the Customize theme window? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Theme colors
- B. Divergent colors
- C. Sentiment colors
- D. First-level elements colors

**Correct Answer: AC**

*Community vote distribution*

BC (100%)

✉️ cherious **Highly Voted** 12 months ago

**Selected Answer: BC**

Divergent colors - Colors used in conditional formatting to show where a data point falls in a range.

Sentiment colors - Colors used in key performance indicator (KPI) visuals and waterfall charts to indicate positive, negative, or neutral results.

upvoted 8 times

✉️ ivanb94 12 months ago

these sound both correct so I think I have to agree

upvoted 2 times

✉️ SamuComqi **Most Recent** 4 months, 2 weeks ago

**Selected Answer: BC**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Divergent colors
- Sentiment colors

upvoted 1 times

✉️ Plb2 6 months, 1 week ago

**Selected Answer: BC**

For this specific report, from left to right, top to bottom.

Visual 1; no updates needed

Visual2: divergent colors (colors used in conditional formatting to show where a data point falls in a range) need to be refined

Visual3; Waterfall charts can use sentiment colors (needs to be switched on)

upvoted 1 times

✉️ ike 7 months, 3 weeks ago

Would select B and C

upvoted 2 times

solref 9 months, 1 week ago

**Selected Answer: BC**

Sentiment colors for the KPI and Waterfall charts

Divergent colors : It works ok the Matrix graph

upvoted 3 times

6688Wj 1 year ago

<https://www.c-sharpcorner.com/article/customize-current-theme-from-power-bi-desktop-without-using-json-part-one/>

upvoted 2 times

6688Wj 1 year ago

I choose BC

Theme colors

We can set eight(8) different theme colors considering different data colors used for different charts, lines etc.

Sentiment colors

This can be used to indicate KPI visual as well as to represent positive and negative number for waterfall chart and to show positive, neutral and negative results.

Divergent colors

This can be used to represent conditional formatting to represent where data point falls in a range.

upvoted 3 times

## Question #58

## Topic 1

You use Azure Synapse Analytics and Apache Spark notebooks to explore native visuals.

You need to use PySpark to gain access to the visual libraries.

Which Python libraries should you use?

- A. Seaborn and TensorFlow
- B. Seaborn only
- C. Matplotlib and Seaborn
- D. Matplotlib only
- E. Matplotlib and TensorFlow
- F. TensorFlow only

**Correct Answer:** C

*Community vote distribution*

C (100%)

✉️  **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: C**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Matplotlib and Seaborn

upvoted 1 times

✉️  **Plb2** 6 months, 1 week ago

**Selected Answer: C**

<https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization#additional-libraries>

upvoted 2 times

✉️  **Eltooth** 6 months, 1 week ago

**Selected Answer: C**

C is correct answer.

upvoted 1 times

✉️  **DarioReymago** 9 months ago

**Selected Answer: C**

C is correct.

upvoted 2 times

✉️  **dera23** 10 months, 2 weeks ago

C is correct.

Seaborn is a data visualization library based on Matplotlib, mainly used for Statistical graphs.

Matplotlib is used for line plots, scatter plots, histograms, bar charts, pie charts and many other different plots

upvoted 2 times

✉️  **stfglv** 11 months, 1 week ago

100% Correct

upvoted 1 times

## Question #59

## Topic 1

## DRAG DROP -

You are using DAX Studio to query an XMLA endpoint.

You need to identify the duplicate values in a column named Email in a table named Subscription.

How should you complete the DAX expression? To answer, drag the appropriate values to the targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values	Answer Area
CALCULATE	(
CONTAINS	FILTER(
CURRENTGROUP	GROUPBY(Subscription,
EVALUATE	Subscription[Email],
ROLLUP	"Rows",
SELECTEDVALUE	COUNTX( [Email])
SUMMARIZE	) [Rows] > 1)

## Answer Area

Correct Answer:

```
CALCULATE (
    FILTER(
        GROUPBY(Subscription,
            Subscription[Email],
            "Rows",
            COUNTX( CURRENTGROUP (), [Email]))
    )
    [Rows] > 1)
)
```

Arnaudvdc1981 Highly Voted 1 year ago

Should be (1) EVALUATE and (2) CURRENT GROUP  
upvoted 19 times

cherious Highly Voted 1 year ago

EVALUATE & CURRENTGROUP is correct. Tested!  
upvoted 13 times

Eltooth Most Recent 6 months, 1 week ago

EVALUATE  
CURRENTGROUP  
upvoted 4 times

ike 7 months, 3 weeks ago

EVALUATE not CALCULATE since you are using DAX Studio. Then CURRENT GROUP as well  
upvoted 2 times

DarioReymago 9 months ago

I prefer Evaluate and currentgroup.  
We can't use calculate instead we use calculatetable that is not an option and is not necessary  
upvoted 2 times

JasonVu 1 year ago

Can anyone give the answer?  
upvoted 1 times

solfref 9 months ago

EVALUATE is a function that can be used to return the result of a table expression as a table. In this case, the FILTER and GROUPBY functions are used to create a table expression that returns the duplicate values in the Email column of the Subscription table.  
CALCULATE, on the other hand, is used to manipulate the filter context of a measure in DAX. It takes an expression as its first argument that defines the measure to be calculated, and one or more filter expressions as its subsequent arguments. It cannot be used to return a table like

EVALUATE does.

So, in summary, EVALUATE is the correct function to use in this case to return the table of duplicate email values, and CALCULATE is not a suitable alternative.

by Chat GPT

upvoted 3 times

✉ **jeroen12345** 1 year ago

1. EVALUATE (because its a Query)
2. Currentgroup

upvoted 4 times

## Question #60

Topic 1

You have a Power BI report that contains one visual.

You need to provide users with the ability to change the visual type without affecting the view for other users.

What should you do?

- A. From Tabular Editor, create a new perspective.
- B. From Visual options in Report settings, select Use the modern visual header with updated styling options.
- C. From Report setting, select Personalize visuals.
- D. From the Bookmarks pane, select Focus mode, and then select Add.

**Correct Answer:** C

*Community vote distribution*

C (100%)

✉ **Maazi** Highly Voted 1 year ago

**Selected Answer: C**

Check <https://learn.microsoft.com/en-us/power-bi/create-reports/power-bi-personalize-visuals?tabs=powerbi-desktop>

upvoted 8 times

✉ **SamuComqi** Most Recent 4 months, 2 weeks ago

**Selected Answer: C**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- From Report setting, select Personalize visuals

upvoted 2 times

✉ **Eltooth** 6 months, 1 week ago

**Selected Answer: C**

C is the correct answer.

upvoted 2 times

✉ **stfglv** 11 months, 1 week ago

definitely correct

upvoted 2 times

## Question #61

## Topic 1

You have a kiosk that displays a Power BI report page. The report uses a dataset that uses Import storage mode.

You need to ensure that the report page updates all the visuals every 30 minutes.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the data sources to use DirectQuery.
- B. Select Auto page refresh.
- C. Enable Power BI embedded.
- D. Enable the XMLA endpoint.
- E. Add a Microsoft Power Automate visual to the report page.
- F. Configure the data sources to use a streaming dataset.

**Correct Answer: AB**

*Community vote distribution*

AB (100%)

 **Maazi** Highly Voted 1 year ago

**Selected Answer: AB**

check <https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-automatic-page-refresh>

upvoted 9 times

 **ivanb94** 12 months ago

Normally I would use automatic refresh when data changes more frequently, but other options make no sense so by using elimination I would say AB is correct. Additionally, the link provides a screenshot example defining the auto reoccurring time interval for the refresh of exactly 30min, so let's stick with Microsoft's example.

upvoted 2 times

 **Deloro** Most Recent 3 months, 2 weeks ago

**Selected Answer: AB**

i guess it's correct however, if it's imported, you cannot switch to direct query, once a report is 'import mode' it can't be switched, so you would have to rebuild and configure auto refresh, i don't see any other options in the list that would be good

upvoted 1 times

 **fireofsea** 4 months ago

if Import and DirectQuery conflicting? Maybe A is not Corret

<https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-use-directquery>

upvoted 1 times

 **ankigolu26** 4 months, 1 week ago

AB Correct

upvoted 1 times

 **Eltooth** 6 months, 1 week ago

**Selected Answer: AB**

A and B are correct answers - as Maazi referenced.

<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-automatic-page-refresh>

upvoted 1 times

 **DarioReymago** 9 months ago

**Selected Answer: AB**

as Maazi said <https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-automatic-page-refresh>

upvoted 3 times

 **cookiemonster42** 11 months ago

Open AI says the following:

You should perform the following actions:

B. Select Auto page refresh: This option allows you to configure the report page to refresh automatically at a specified interval. In this case, you would set the refresh interval to 30 minutes to ensure that the report page updates all visuals every 30 minutes.

E. Add a Microsoft Power Automate visual to the report page: Power Automate is a cloud-based service that allows you to automate tasks and workflows. By adding a Power Automate visual to the report page, you can configure it to refresh the report page at a specific interval, such as

every 30 minutes.

Note that you do not need to perform the other actions listed (Configure the data sources to use DirectQuery, Enable Power BI embedded, Enable the XMLA endpoint, Configure the data sources to use a streaming dataset) to achieve your desired outcome of updating the report page every 30 minutes. The options you need are "Auto page refresh" and "Microsoft Power Automate."

upvoted 1 times

## Question #62

Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. rollup
- B. freqItems
- C. explain
- D. describe

**Correct Answer: D**

*Community vote distribution*

D (100%)

✉  **ankigolu26** 4 months, 1 week ago

d is correct

upvoted 1 times

✉  **DarioReymago** 9 months ago

**Selected Answer: D**

d is correct

upvoted 2 times

✉  **per\_ing** 11 months, 2 weeks ago

**Selected Answer: D**

Duplicate of 101 and 103. Correct answer is D

upvoted 3 times

## Question #63

## Topic 1

## HOTSPOT -

You have the following code in an Azure Synapse notebook.

```
import matplotlib.pyplot as plt
x1 = [1, 3, 4, 5, 6, 7, 9]
y1 = [4, 7, 2, 4, 7, 8, 3]
x2 = [2, 4, 6, 8, 10]
y2 = [5, 6, 2, 6, 2]
plt.bar(x1, y1, label= "Blue Item", color= 'b')
plt.bar(x2, y2, label= "Green Item", color= 'g')
plt.plot()
plt.xlabel("Number")
plt.ylabel("Height")
plt.title("My Chart")
plt.legend()
plt.show()
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the code.

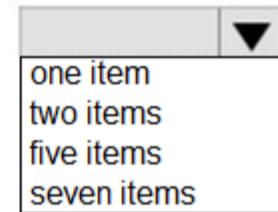
NOTE: Each correct selection is worth one point.

**Answer Area**

Running the code will create a **[answer choice]** in the output cell.



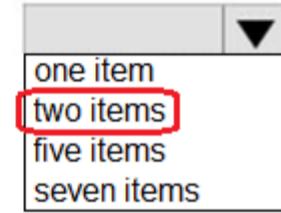
The legend for the resulting chart will list **[answer choice]** in the legend.

**Answer Area**

Running the code will create a **[answer choice]** in the output cell.

**Correct Answer:**

The legend for the resulting chart will list **[answer choice]** in the legend.



**MohsenSic** 5 months, 3 weeks ago

since these two sets do not share the same axis, the results are both stacked bar(same x) and grouped bar chart(different x),!  
upvoted 2 times

**DarioReymago** 9 months ago

ok, is stacked bar, tested  
upvoted 2 times

**solref** 9 months, 1 week ago

I ran the code, and the Answer it OK!  
import matplotlib.pyplot as plt

```
x1= [1,3,4,5,6,7,9]
y1= [4,7,2,4,7,8,3]
x2= [2,4,6,8,10]
y2= [5,6,2,6,2]

plt.bar(x1,y1, label = "Blue Item", color= 'b')
```

```
plt.bar(x2,y2, label = "Green Item", color= 'g')
plt.plot()
plt.xlabel("Number")
plt.ylabel("Height")
plt.title("My chart")
plt.legend()
plt.show()

upvoted 3 times
```

✉️ **stfgly** 11 months ago

very similar example here that confirms the code outcome: <https://www.geeksforgeeks.org/create-a-stacked-bar-plot-in-matplotlib/>  
upvoted 1 times

✉️ **louisaok** 11 months, 4 weeks ago

answer is correct  
upvoted 3 times

✉️ **cherious** 12 months ago

Answer is correct. I ran the code.  
upvoted 4 times

✉️ **AshwinN1992** 1 year ago

Please confirm the option  
upvoted 2 times

## Question #64

## Topic 1

## HOTSPOT -

You have the following code in an Azure Synapse notebook.

```
import matplotlib.pyplot as plt
x1 = [2, 3, 4]
y1 = [5, 5, 5]
x2 = [1, 2, 3, 4, 5]
y2 = [2, 3, 2, 3, 4]
y3 = [6, 8, 7, 8, 7]
plt.scatter(x1, y1)
plt.scatter(x2, y2, marker= 'v', color= 'r')
plt.scatter(x2, y3, marker= '^', color= 'm')
plt.title('Scatter Plot')
plt.show()
```

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the code.

NOTE: Each correct selection is worth one point.

**Answer Area**

There will be **[answer choice]** rendered as the output of the code.

one scatterplot
two scatterplots
three scatterplots

There will be **[answer choice]** used in the output.

one marker symbol
two marker symbols
three marker symbols

**Answer Area**

There will be **[answer choice]** rendered as the output of the code.

Correct Answer:

one scatterplot
two scatterplots
three scatterplots

There will be **[answer choice]** used in the output.

one marker symbol
two marker symbols
three marker symbols

✉️  **Ramiel** Highly Voted  1 year ago

The answer should be "one scatterplot" and "three markers".

upvoted 25 times

✉️  **soref** 9 months, 1 week ago

I ran the code too.

The ANSWER = 1 Scatterplot and 3 markers

upvoted 4 times

✉️  **soref** 9 months, 1 week ago

```
import matplotlib.pyplot as plt
```

```
x1= [2, 3, 4]
y1= [5, 5, 5]
```

```
x2= [1, 2, 3, 4, 5]
y2= [2, 3, 2, 3, 4]
```

```
x3= [1, 2, 3, 4, 5]
y3= [6, 8, 7, 8, 7]
plt.scatter(x1,y1)
plt.scatter(x2,y2,marker= 'v', color= 'r')
plt.scatter(x2,y3,marker= '^', color= 'm')
plt.title('Scatter Plot')
```

```
plt.show()  
upvoted 3 times
```

✉ **Ati1362** 12 months ago

I ran the code, Ramiel answer is correct: "1 scatterplot" and "3 markers"  
upvoted 7 times

✉ **Akin\_Eren** **Most Recent** 4 days, 1 hour ago

1 scatterplot with 3 markers  
ran the code  
upvoted 1 times

✉ **Deloro** 3 months, 2 weeks ago

confirmed!! ran code, 1 plot, 3 markers  
upvoted 1 times

✉ **orionduo** 4 months, 1 week ago

A Scatter plot is a plot in which coordinates are shown as markers(dots) on the graph. A Scatter plot is useful for showing the relationship between the variables.

In matplotlib, a scatter plot is implemented using the scatter() function, which takes at least two parameters, x-axis data and y-axis data. Therefore, there are 3 scatter() functions means that there are 3 scatter plots  
The answer, I think, is 3 scatterplots & 3 markers  
upvoted 1 times

✉ **Deloro** 3 months, 2 weeks ago

I ran the code, 1 plot, 3 markers  
upvoted 1 times

✉ **dthien** 5 months, 1 week ago

one scatterplot - 3 marker - tested  
upvoted 1 times

✉ **Plb2** 6 months, 1 week ago

It's multiple (3) scatterplots in one figure (and using three markers to help distinguish the three scatterplots)  
upvoted 2 times

✉ **DarioReymago** 9 months ago

3 scatterplot and 3 markers  
upvoted 2 times

✉ **Az301301X** 9 months, 1 week ago

OK, using Chat GPT:

i have this code in Azure Synapse Notebook:

```
import matplotlib.pyplot as plt  
x1= [2, 3, 4]  
y1= [5, 5, 5]  
  
x2= [1, 2, 3, 4, 5]  
y2= [2, 3, 2, 3, 4]  
  
y3= [6, 8, 7, 8, 7]  
plt.scatter(x1,y1)  
plt.scatter(x2,y2,marker= 'v', color= 'r')  
plt.scatter(x2,y3,marker= '^', color= 'm')  
plt.title('Scatter Plot')  
  
plt.show()
```

How many markers and scatterplots will i get???

upvoted 1 times

✉ **Az301301X** 9 months, 1 week ago

Chat GPT answer:

You will get three scatter plots, one for each set of data points (x1, y1), (x2, y2), and (x2, y3). The first scatter plot will have circular markers, the second scatter plot will have downward-pointing triangles as markers, and the third scatter plot will have upward-pointing triangles as markers. Therefore, you will have a total of two different markers.

upvoted 1 times

✉ **DS\_newb** 9 months, 1 week ago

to those really do EDA or visualization in python, should know there should only one plot figure  
upvoted 2 times

✉ **Az301301X** 10 months, 1 week ago

OK, If I see the comments from cookiemonster42, I would say that the right answer is:

"3 scatterplot" and "2 markers".

I havent ran the code, but reading it one could infer the outcome.

upvoted 1 times

✉ **dera23** 10 months, 2 weeks ago

The answer is 3 scatter plots and 3 markers like cookiemonster42 explained below

upvoted 1 times

✉ **cookiemonster42** 10 months, 3 weeks ago

This is a Python script that generates a scatter plot using the Matplotlib library. The script generates 3 scatter plots, with the following characteristics:

First scatter plot:

x-axis data: [2, 3, 4]

y-axis data: [5, 5, 5]

Second scatter plot:

x-axis data: [1, 2, 3, 4, 5]

y-axis data: [2, 3, 2, 3, 4]

Marker style: 'v'

Color: 'r' (red)

Third scatter plot:

x-axis data: [1, 2, 3, 4, 5]

y-axis data: [6, 8, 7, 8, 7]

Marker style: '^'

Color: 'm' (magenta)

The final line, plt.show(), is used to display the scatter plot in a GUI window.

upvoted 2 times

✉ **Az301301X** 10 months, 3 weeks ago

So, the correct answer should be 3 scatterplot and 3 markers???

upvoted 1 times

## Question #65

## Topic 1

## HOTSPOT -

You use Advanced Editor in Power Query Editor to edit a query that references two tables named Sales and Commission.

A sample of the data in the Sales table is shown in the following table.

OrderID	SalesPerson	Amount
101	Tom	199.99
103	Eileen	279.99
108	Enrique	333.42

A sample of the data in the Commission table is shown in the following table.

Person	Commission
Tom	0.04
Eileen	0.05

You need to merge the tables by using Power Query Editor without losing any rows in the Sales table.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

```
Combined = Table. [ ] (Sales, "SalesPerson", Commission, "Name", JoinKind.
    Combine
    InsertRows
    Join
    TransformRow
) [ ] (LeftAnti
    LeftOuter
    RightAnti
    RightOuter)
```

## Answer Area

Correct Answer:

```
Combined = Table. [ ] (Sales, "SalesPerson", Commission, "Name", JoinKind.
    Combine
    InsertRows
    Join
    TransformRow
) [ ] (LeftAnti
    LeftOuter
    RightAnti
    RightOuter)
```

✉ **SamuComqi** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Join
  - LeftOuter
- upvoted 3 times

✉ **Eltooth** 6 months, 1 week ago

Join  
LeftOuter  
upvoted 1 times

✉ **DarioReymago** 9 months ago

in Power Q is joinNested and leftouter  
<https://learn.microsoft.com/en-us/power-query/merge-queries-left-anti>  
<https://learn.microsoft.com/en-us/power-query/merge-queries-left-outer>  
upvoted 1 times

✉ **stfgly** 11 months, 1 week ago

Considering that LeftOuter per definition keeps all the rows in the "left" table, here Sales, the answer is definitely correct  
upvoted 2 times

✉ **moreinva43** 11 months, 3 weeks ago

Just created two tables same data and combine them in Power BI, join and leftouter is correct.  
upvoted 3 times

✉ **AshwinN1992** 12 months ago

Is this correct  
upvoted 3 times

## Question #66

## Topic 1

You have a Power BI dataset named Dataset1 that uses DirectQuery against an Azure SQL database named DB1.

DB1 is a transactional database in the third normal form.

You need to recommend a solution to minimize how long it takes to execute the query. The solution must maintain the current functionality.

What should you include in the recommendation?

- A. Remove the relationships from Dataset1.
- B. Normalize the tables in DB1.
- C. Create calculated columns in Dataset1.
- D. Denormalize the tables in DB1.

**Correct Answer:** D

*Community vote distribution*

D (100%)

✉️ **SamuComqi** 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Denormalize the tables in DB1

upvoted 1 times

✉️ **Plb2** 6 months, 1 week ago

**Selected Answer: D**

D(enormalize)

upvoted 3 times

✉️ **DarioReymago** 9 months ago

**Selected Answer: D**

I think D is correct

upvoted 2 times

✉️ **cookiemonster42** 11 months, 2 weeks ago

shouldn't it be B, because long tables are taking longer to process?

upvoted 1 times

✉️ **salvalcaraz** 2 weeks ago

A query performs faster in a big denormalized table.

Normalized databases requires more joins, which are expensive query processes.

upvoted 1 times

✉️ **stfglv** 11 months ago

no because "DB1 is a transactional database in the third normal form" --> the last part of the sentence means that it is already normalized.

upvoted 1 times

✉️ **per\_ing** 11 months, 2 weeks ago

Denormalized tables are quicker to read than normalized, so I believe this is correct <https://medium.com/@innerbit/when-and-how-you-should-denormalize-a-relational-database-75047344ebac>

upvoted 4 times

## Question #67

## Topic 1

You have a file named File1.txt that has the following characteristics:

A header row -

Tab delimited values -

UNIX-style line endings -

You need to read File1.txt by using an Azure Synapse Analytics serverless SQL pool.

Which query should you execute?

A. SELECT\*

```
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = '\t',
    ROWTERMINATOR = '0x0a',
```

FIRSTROW= 2 -

)

B. SELECT\*

```
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '\n',
```

FIRSTROW= 2 -

)

C. SELECT\*

```
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '0x0a',
```

FIRSTROW= 2 -

)

D. SELECT\*

```
FROM OPENROWSET(
    BULK 'file1.txt',
    DATA_SOURCE = 'Sql1',
    FORMAT = 'CSV', PARSER_VERSION = '2.0',
    FIELDTERMINATOR = '\t',
    ROWTERMINATOR = '0x0a',
```

FIRSTROW= 1 -

)

**Correct Answer: A**

*Community vote distribution*

A (100%)

✉ Maazi **Highly Voted** 1 year ago

**Selected Answer: A**

Ref: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-single-csv-file>  
upvoted 6 times

✉ DarioReymago **Most Recent** 9 months ago

**Selected Answer: A**

a is correct  
upvoted 1 times

✉ Az301301X 9 months ago

**Selected Answer: A**

Chat GPT:  
Based on the characteristics of the File1.txt, the correct query to execute in Azure Synapse Analytics serverless SQL pool is option A. This query uses the OPENROWSET function to read a CSV file, which is specified by the BULK option. The FIELDTERMINATOR is set to a tab character (\t), and the ROWTERMINATOR is set to the UNIX-style line ending (0x0a). The FIRSTROW option is set to 2 to skip the header row. Option B uses a comma as the field terminator, which does not match the tab-delimited format of the file. Option C uses a comma as the field terminator and the UNIX-style line ending as the row terminator, which does not match the characteristics of the file. Option D sets the FIRSTROW option to 1, which would include the header row in the result set.

So, A.

upvoted 2 times

✉ solref 9 months ago

CHAT GPT :

Based on the characteristics of the File1.txt, the correct query to read the file using an Azure Synapse Analytics serverless SQL pool is: D

Explanation:

The file has a header row, so it's important to specify that the first row is not a header row in the query by setting FIRSTROW=1.

The file is tab-delimited, so FIELDTERMINATOR should be set to '\t'.

The file has UNIX-style line endings, so ROWTERMINATOR should be set to '0x0a'.

The FORMAT option should be set to 'CSV', even though it is not strictly a CSV file because it is tab-delimited. This is because CSV format can handle tab-delimited files as well.

Options A, B, and C are not correct because they have incorrect field terminators or row terminators, or they do not specify that the first row is a header row.

upvoted 1 times

✉ cookiemonster42 11 months ago

It's C, open AI confirmed it :)

upvoted 1 times

✉ stfglv 11 months, 1 week ago

This part of the A solution is the key and makes all other solutions incorrect (t for tab): FIELDTERMINATOR = '\t'

upvoted 4 times

✉ sgodd\_0298 8 months, 1 week ago

Option D contains FIELDTERMINATOR = '\t' as well FYI.

upvoted 1 times

✉ solref 9 months, 1 week ago

You are right

Terminating character Tab = '\t'

Newline character = '\n'

<https://learn.microsoft.com/en-us/sql/relational-databases/import-export/specify-field-and-row-terminators-sql-server?view=sql-server-ver16>  
upvoted 1 times

✉ Az301301X 11 months, 1 week ago

....and FIRSTROW= 2, because the Headers.

upvoted 2 times

✉ moreinva43 12 months ago

that website makes it look like the answer is c with the same field terminator and row terminator.

upvoted 1 times

## Question #68

## Topic 1

## HOTSPOT -

You have a Power BI dataset that has the query dependencies shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

## Answer Area

When the dataset refreshes, the Orders query will be executed [answer choice] times.

0
1
3

[Answer choice] will reduce data refresh times for this model.

- Duplicating the Orders query instead of referencing the query
- Replacing the Orders query with a dataflow
- Using Table.Buffer in the Orders query

## Answer Area

When the dataset refreshes, the Orders query will be executed [answer choice] times.

0
1
3

## Correct Answer:

[Answer choice] will reduce data refresh times for this model.

- Duplicating the Orders query instead of referencing the query
- Replacing the Orders query with a dataflow
- Using Table.Buffer in the Orders query

Arnaudvdc1981 Highly Voted 1 year ago

Orders query is executed 3 times but creating a dataflow will reduce data refresh times, not the table.buffer  
<https://learn.microsoft.com/en-us/power-bi/guidance/power-query-referenced-queries>

upvoted 18 times

6688Wj Highly Voted 1 year ago

3 and Dataflow  
 upvoted 10 times

SamuComqi Most Recent 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
 My answer was:  
 - 3  
 - Replacing the Orders query with a dataflow  
 upvoted 3 times

Eltooth 6 months, 1 week ago

3  
 Dataflow  
 upvoted 2 times

cherious 12 months ago

3 and Dataflow.

When the data model is refreshed, it's often assumed that Power Query retrieves the Query1 result, and that it's reused by referenced queries. This thinking is incorrect. In fact, Power Query executes Query2, Query3, and Query4 separately. Query1 is executed three times. The multiple executions can result in slow data refresh, and negatively impact on the data source.

The use of the Table.Buffer function in Query1 won't eliminate the additional data retrieval. We recommend you create a dataflow instead. Using a dataflow can improve data refresh time, and reduce impact on your data sources.

Source: <https://learn.microsoft.com/en-us/power-bi/guidance/power-query-referenced-queries>

upvoted 7 times

✉️  **JasonVu** 1 year ago

should be 0

upvoted 2 times

✉️  **JasonVu** 1 year ago

\*3\*. Did not see the reference query

upvoted 4 times

## Question #69

## Topic 1

You are creating an external table by using an Apache Spark pool in Azure Synapse Analytics. The table will contain more than 20 million rows partitioned by date. The table will be shared with the SQL engines. You need to minimize how long it takes for a serverless SQL pool to execute a query against the table. In which file format should you recommend storing the table data?

- A. CSV
- B. Delta
- C. JSON
- D. Apache Parquet

**Correct Answer:** D

*Community vote distribution*

D (100%)

✉️ **Qordata** 3 months ago

D is correct

Reference: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool#prepare-files-for-querying>

upvoted 1 times

✉️ **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: D**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

Apache Parquet

upvoted 1 times

✉️ **Albeeliu** 8 months, 2 weeks ago

From Chatgpt:

By using Apache Parquet format for the external table, you can minimize the query execution time for serverless SQL pools in Azure Synapse Analytics because:

Columnar storage: Apache Parquet stores data in a columnar format, which allows for highly efficient and fast data access. This means that queries against the external table can be executed faster because only the relevant columns are read.

Compression: Apache Parquet uses a highly efficient compression algorithm, which reduces the size of the data on disk. Smaller data size means less data to transfer, which results in faster query execution time.

Partitioning: Apache Parquet supports partitioning, which allows you to subdivide the external table into smaller, more manageable files. When querying the table, only the relevant partitions are scanned, which makes query execution faster.

Overall, by using Apache Parquet for the external table, you can significantly reduce the amount of time it takes for a serverless SQL pool to execute a query against the table, making it a more performant solution for analyzing large datasets.

upvoted 1 times

✉️ **Hongzu13** 9 months, 4 weeks ago

**Selected Answer: D**

Well, this link doesn't give the answer directly, but MS indirectly states that you should use Apache Parquet files for your SQL serverless pool.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/get-started-analyze-sql-on-demand>

upvoted 2 times

✉️ **louisak** 11 months, 4 weeks ago

**Selected Answer: D**

D is correct

upvoted 3 times

## Question #70

## Topic 1

You are running a diagnostic against a query as shown in the following exhibit.

The screenshot shows the Power Query Editor interface with a diagnostic query named 'Diagnostics\_Detailed\_2022-01-31\_12:58'. The 'APPLIED STEPS' pane indicates a 'Changed Type' step was applied to the source. The query code is as follows:

```

= Table.TransformColumnTypes(Source, {{"Id", type number}, {"Query", type text}, {"Step", type text}, {"Category", type text}}
    let
        % Exclusive Duration (%)
        % Exclusive Duration
        % Resource
        % Data Source Query
    in
        24 distinct, 19 unique 59 distinct, 50 unique 2 distinct, 0 unique
        8 distinct, 6 unique
        select @version + 'EngineEdition:' + cast(SERVERPROPERTY('Engine...
        null
        null
        select [TABLE_CATALOG].t.[TABLE_NAME], t.[TA...
        from [INFORMATION_SCHEMA].[TABLES] t
        join sys.schemas s on s.name = t.[TABLE_SCHEMA]
        join sys.objects tv on tv.name = t.[TABLE_NAME] and tv.schema_id = s.schema_id
        left outer join (select null major_id, null minor_id, null class, null name
        ...
        1.05% 0.00:00:00.0143159 l0nom50i5u.database.windows.net;Co
        0.00% 0.00:00:00.0000225 l0nom50i5u.database.windows.net;Co
    
```

What can you identify from the diagnostics query?

- A. Some query steps are folding.
- B. The query is timing out.
- C. Elevated permissions are being used to query records.
- D. All the query steps are folding.

**Correct Answer: D**

*Community vote distribution*

D (100%)

✉ **DarioReymago** 9 months ago

**Selected Answer: D**

I understand that all query could be sent to source, for this reason it is folded  
upvoted 1 times

✉ **Saffar** 11 months, 3 weeks ago

Answer is correct,  
none of the steps added to query prevent folding, which means folding should be working fine in all steps

Steps that prevent folding:

<https://learn.microsoft.com/en-us/power-query/power-query-folding#transformations-that-prevent-folding>

upvoted 3 times

✉ **AshwinN1992** 1 year ago

Please confirm

upvoted 2 times

## Question #71

## Topic 1

DRAG DROP -

You are configuring Azure Synapse Analytics pools to support the Azure Active Directory groups shown in the following table.

Name	Requirement
Group1	Analyze data to create and train machine learning models in Synapse Analytics.
Group2	Execute complex queries with multiple joins against relational data. Results will be exported by using PolyBase.
Group3	Query and load data from Apache Parquet files stored in Azure Data Lake Storage Gen2. Costs must be based on the amount of data processed.

Which type of pool should each group use? To answer, drag the appropriate pool types to the groups. Each pool type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Pool Types****Answer Area**

Apache Spark pool

Group1: 

Dedicated SQL pool

Group2: 

Serverless SQL pool

Group3: **Answer Area**

Correct Answer:

Group1:  Apache Spark poolGroup2:  Dedicated SQL poolGroup3:  Serverless SQL pool✉ **Eltooth** 6 months, 1 week ago

Apache  
Dedicated  
Serverless  
upvoted 3 times

✉ **DarioReymago** 9 months ago

I think this is ok, but not sure  
upvoted 1 times

✉ **solref** 9 months, 1 week ago

it ok! :)  
upvoted 1 times

✉ **per\_ing** 11 months, 2 weeks ago

I believe this is correct <https://www.royalcyber.com/resources/blogs/dedicated-sql-pool-vs-serverless-sql/>  
upvoted 1 times

## Question #72

## Topic 1

## DRAG DROP -

You have a Power BI dataset. The dataset contains data that is updated frequently.

You need to improve the performance of the dataset by using incremental refreshes.

Which four actions should you perform in sequence to enable the incremental refreshes? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions****Answer Area**

Define the incremental refresh policy for the table.

Enable query caching.

Publish the model to the Power BI service.



Create RangeStart and RangeEnd parameters.



Use the Power BI REST API to post a message to /refreshes.

Apply a custom Date/Time filter to the data.

**Answer Area**

Create RangeStart and RangeEnd parameters.

Correct Answer:

Apply a custom Date/Time filter to the data.

Define the incremental refresh policy for the table.

Publish the model to the Power BI service.

✉️ **MaryemSB** 2 weeks, 5 days ago

correct answer

upvoted 1 times

✉️ **Cata23** 5 months, 2 weeks ago

This is correct :)

upvoted 2 times

✉️ **Eltooth** 6 months, 1 week ago

Create

Apply

Define

Publish

upvoted 3 times

✉️ **DarioReymago** 9 months ago

is corrrrrrect

upvoted 2 times

✉️ **stfglv** 11 months, 3 weeks ago

the correct sequence is: 1. define the RangeStart and RangeEnd parameters 2. apply customer filter to the Date column 3. define incremental refresh policy 4. publish the model

source: <https://learn.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-configure>

upvoted 3 times

## Question #73

## Topic 1

You develop a solution that uses a Power BI Premium capacity. The capacity contains a dataset that is expected to consume 50 GB of memory. Which two actions should you perform to ensure that you can publish the model successfully to the Power BI service? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Restart the capacity.
- B. Publish an initial dataset that is less than 10 GB.
- C. Increase the Max Offline Dataset Size setting.
- D. Invoke a refresh to load historical data based on the incremental refresh policy.
- E. Publish the complete dataset.

**Correct Answer: DE***Community vote distribution*

**joxis4786** 1 week, 6 days ago

itexamslab.com

Given answer is correct

upvoted 1 times

**salvalcaraz** 2 weeks ago

**Selected Answer: DE**

It's in the docs: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models#enable-large-semantic-models>

--> Publish the model as a semantic model to the service.

--> Invoke a refresh to load historical data based on the incremental refresh policy.

upvoted 1 times

**DarioReymago** 9 months ago

**Selected Answer: BD**

in practice B y D is the best solution

upvoted 2 times

**Az301301X** 9 months, 1 week ago

**Selected Answer: CE**

Chat GPT:

The correct options to ensure successful publishing of a Power BI Premium dataset that is expected to consume 50 GB of memory are:

C. Increase the Max Offline Dataset Size setting: Power BI Premium capacity has a default limit of 10 GB for the maximum offline dataset size that can be published to the service. You can increase this limit to accommodate larger datasets. In this case, you should increase the limit to 50 GB to support the dataset.

E. Publish the complete dataset: To ensure that the complete dataset is published successfully, you should not publish an initial dataset that is less than 10 GB, as suggested in option B. Also, restarting the capacity, as suggested in option A, is not necessary in this scenario. Invoking a refresh to load historical data based on the incremental refresh policy, as suggested in option D, is optional and does not affect the publishing process.

Therefore, the correct actions to perform are to increase the Max Offline Dataset Size setting to 50 GB and publish the complete dataset.

upvoted 1 times

**Qordata** 3 months ago

C is definitely wrong please read below as per the logic provided below comments in documentation negate it, anyhow a smaller dataset could have a larger in memory size and to support more than 10 GB one needs to definitely enable Large Dataset storage format which is not there in options.

To safeguard the performance of the system, an additional SKU-specific hard ceiling for max offline dataset size is applied, regardless of the configured value. The additional SKU-specific hard ceiling in the below table does not apply to Power BI datasets stored in large dataset storage format.

EM1/A1 EM2/A2 EM3/A3 P1/A4 P2/A5 P3/A6 P4/A7 P5/A8

Hard ceiling for Max Offline Dataset Size 3 GB 5 GB 6 GB 10 GB 10 GB 10 GB 10 GB

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-workloads#max-offline-dataset-size>

upvoted 1 times

**solref** 9 months, 1 week ago

**Selected Answer: DE**

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>  
upvoted 2 times

✉ **stfgly** 11 months, 3 weeks ago

We need to differentiate between the limit for a dataset and limit for a data model that will be uploaded to the service. As this link (<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>) states, for Premium the option to enable large datasets does not affect the PBI Desktop model upload size, which is still limited to 10 GB. "Instead, datasets can grow beyond that limit in the service on refresh." . In conclusion, until you upload it it has to be smaller than 10GB and afterwards it can grow beyond that. Incremental refresh is a must obviously.

upvoted 2 times

✉ **ThariCD** 10 months, 3 weeks ago

The link you mention also includes the steps to enable a large dataset for a new model published to the service, which are:

1. Create a model in Power BI Desktop. If your dataset will become larger and progressively consume more memory, be sure to configure Incremental Refresh
2. Publish the model as a dataset to the service
3. In the service > dataset > Settings, expand Large dataset storage format, set the slider to On and select Apply

Doesn't that mean that D & E are the correct answers? The incremental refresh is obvious from step 1 but doesn't step 2 mean you should publish the complete dataset? Nowhere in those steps does it say you need to first publish 10 GB of your dataset.

upvoted 2 times

✉ **Qordata** 3 months ago

Complete dataset is of 50 GB size so you could publish the complete data set hence E is wrong.

First you publish the dataset where you had configured the incremental refresh in powerbi desktop file and it's size is less than 10 GB which makes option B correct

Than you do what is mentioned in option D which would make the dataset to consume 50GB of memory maybe but for that you would have to enable large dataset storage format keep that in mind

upvoted 1 times

✉ **Saffar** 11 months, 3 weeks ago

**Selected Answer: BD**

I think BD is correct.

upvoted 4 times

✉ **cherious** 1 year ago

**Selected Answer: BD**

BD is correct.

upvoted 4 times

✉ **Maazi** 1 year ago

I think D & E are the correct answers.

See the section "Enable large Datasets" at <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>

upvoted 2 times

✉ **jeroen12345** 1 year ago

**Selected Answer: BD**

D + B is correct

upvoted 3 times

## Question #74

## Topic 1

You have a Power BI workspace named Workspace1 in a Premium capacity. Workspace1 contains a dataset.

During a scheduled refresh, you receive the following error message: "Unable to save the changes since the new dataset size of 11,354 MB exceeds the limit of 10,240 MB."

You need to ensure that you can refresh the dataset.

What should you do?

- A. Change License mode to Premium per user.
- B. Turn on Large dataset storage format.
- C. Connect Workspace1 to an Azure Data Lake Storage Gen2 account.
- D. Change the location of the Premium capacity.

**Correct Answer: D***Community vote distribution*

**JasonVu** Highly Voted 1 year ago

Answer is B

upvoted 13 times

**6688Wj** Highly Voted 1 year ago

I think is B

<https://blog.crossjoin.co.uk/2022/11/07/understanding-the-unable-to-save-the-changes-since-the-new-dataset-of-size-error-in-power-bi/>

upvoted 7 times

**JCanData** Most Recent 2 months, 2 weeks ago

yeah but it says, Workspace1 in a Premium capacity. so answer is D

upvoted 1 times

**Eltooth** 6 months, 1 week ago

**Selected Answer: B**

B is the correct answer.

upvoted 1 times

**DarioReymago** 9 months ago

**Selected Answer: B**

b is ok

upvoted 2 times

**solref** 9 months, 1 week ago

**Selected Answer: B**

The Answer D , would be ok if the topic would explain the region where the workspace was located. Some regions don't support large datasets, and the large dataset storage format option is disabled.

Check the list : <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models#region-availability>

Because the question/case doesn't express a Region limitation, it should be ok to select opc B, regarding to: Enable the Large dataset storage format option to use datasets in Power BI Premium that are larger than the default limit.

Link here: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>

upvoted 2 times

**Fer079** 10 months, 3 weeks ago

**Selected Answer: D**

The message error says "Unable to save the changes since the new dataset size of 11,354 MB exceeds the limit of 10,240 MB.", so it means that the limit is already 10GB so the "large dataset storage format" is already turned on.

Therefore the only feasible option is D to change a new SKU with more resources.

This article is very clear:

<https://blog.crossjoin.co.uk/2022/11/07/understanding-the-unable-to-save-the-changes-since-the-new-dataset-of-size-error-in-power-bi/>

upvoted 1 times

**Fer079** 10 months, 2 weeks ago

sorry guys, ignore my previous comment.

The default dataset size for power bi premium is 10 GB, but enabling the "large dataset storage format" option we can have a larger dataset

upvoted 1 times

**ThariCD** 10 months, 3 weeks ago

**Selected Answer: B**

I agree with previous comments. Since you're already in a Premium capacity, you should enable the Large dataset storage format. I don't see what the location of the Premium capacity has to do with this as per answer D...

upvoted 3 times

✉  **Ngol** 11 months, 3 weeks ago

**Selected Answer: B**

B is correct

upvoted 3 times

✉  **Ramiel** 1 year ago

**Selected Answer: B**

It should be B

upvoted 4 times

✉  **Ramiel** 1 year ago

Agreed with previous commenters, I think the answer should be B:

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>

upvoted 3 times

## Question #75

## Topic 1

**DRAG DROP -**

You have a Power BI dataset that contains the following measures:

Budget -

Actuals -

Forecast -

You create a report that contains 10 visuals.

You need provide users with the ability to use a slicer to switch between the measures in two visuals only.

You create a dedicated measure named CG Measure Switch.

How should you complete the DAX expression for the Actuals measure? To answer, drag the appropriate values to the targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Values****Answer Area**

ISSELECTEDMEASURE ()

IF ( [ ] = "CG Measure Switch", [Actuals], [ ] )

SELECTEDMEASURENAME ()

SELECTEDMEASURE ()

SELECTEDVALUE ()

**Answer Area****Correct Answer:**

IF ( [SELECTEDMEASURENAME ()] = "CG Measure Switch", [Actuals], [SELECTEDVALUE ()] )

✉  **Maazi**  1 year ago

I think it should be SELECTEDMEASURENAME and SELECTEDMEASURE.

SELECTEDVALUE requires at least one parameter and this has to be a column in a table.

upvoted 18 times

✉  **louisaok**  11 months, 4 weeks ago

SELECTEDMEASURENAME and SELECTEDMEASURE are correct

upvoted 6 times

✉  **Eltooth**  6 months, 1 week ago

SELECTEDMEASURENAME

SELECTEDMEASURE

upvoted 1 times

✉  **Eltooth** 6 months, 1 week ago

See Q#98

upvoted 1 times

## Question #76

## Topic 1

HOTSPOT -

You are configuring an aggregation table as shown in the following exhibit.

## Manage aggregations

Aggregations accelerate query performance to unlock big-data sets. [Learn more](#)

Aggregation table Precedence ⓘ  
 FactSales(Agg) 0

ProductKey	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	
PromotionKey	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	
SalesAmount	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	
SalesQuantity	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	
StoreKey	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	
TotalCost	Select Summarizatio... ▾	Count	GroupBy	Max	Sum	

The detail table is named FactSales and the aggregation table is named FactSales(Agg).

You need to aggregate SalesAmount for each store.

Which type of summarization should you use for SalesAmount and StoreKey? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Summarization for SalesAmount:

- Count
- GroupBy
- Max
- Sum

Summarization for StoreKey:

- Count
- GroupBy
- Max
- Sum

## Answer Area

Summarization for SalesAmount:

- Count
- GroupBy
- Max
- Sum

Correct Answer:

- Count
- GroupBy
- Max
- Sum

elimey 2 months, 4 weeks ago

SUM  
GROUP BY  
upvoted 2 times

SamuComqi 4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  

- Sum
- GroupBy

upvoted 1 times

✉️  **DarioReymago** 9 months ago

is okkk

upvoted 3 times

✉️  **stfglv** 11 months, 3 weeks ago

correct

upvoted 4 times

## Question #77

## Topic 1

You have a Power BI dataset that uses DirectQuery against an Azure SQL database.

Multiple reports use the dataset.

A database administrator reports that too many queries are being sent from Power BI to the database.

You need to reduce the number of queries sent to the database. The solution must meet the following requirements:

DirectQuery must continue to be used.

Visual interactions in all the reports must remain as they are configured currently.

Consumers of the reports must only be allowed to apply filters from the Filter pane.

Which two settings should you select? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Add a single Apply button to the filter pane to apply changes at once
- B. Add Apply buttons to all basic filters to apply changes when you're ready
- C. Disabling cross highlighting/filtering by default
- D. Ignore the Privacy Levels and potentially improve performance
- E. Add an Apply button to each slicer to apply changes when you're ready

**Correct Answer: AE**
*Community vote distribution*


cherious Highly Voted 1 year ago

Selected Answer: AD

IMO the answers are A&D.

Since "Consumers of the reports must only be allowed to apply filters from the Filter pane", then B & E are wrong.

Also, there is noted that "Visual interactions in all the reports must remain as they are configured currently." which would be violated by C.

To support D answer, there is no information that the data contains sensitive information so this change can be considered reasonable: "Caution: Enabling Fast Combine by selecting Ignore the Privacy levels and potentially improve performance in the Workbook Settings dialog could expose sensitive or confidential data to an unauthorized person. Do not enable Fast Combine unless you are confident that the data source does not contain sensitive or confidential data."

Source: <https://support.microsoft.com/en-us/office/set-privacy-levels-power-query-cc3ede4d-359e-4b28-bc72-9bee7900b540>  
upvoted 8 times

Martin\_Nbg 5 months, 2 weeks ago

Since there is only one data source, the SQL database, there is nothing to combine considering privacy levels. So how could fast combine reduce queries if there are no sources to combine?

upvoted 3 times

SamuComqi Highly Voted 4 months, 2 weeks ago

Selected Answer: AE

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Add a single Apply button to the filter pane to apply changes at once
- Add an Apply button to each slicer to apply changes when you're ready

upvoted 6 times

ExamPage Most Recent 4 months, 3 weeks ago

Selected Answer: AC

A. Add a single Apply button to the filter pane to apply changes at once. This will prevent Power BI from sending multiple queries to the database as users interact with the filter pane. Instead, Power BI will only send one query when the user clicks the Apply button.

C. Disabling cross highlighting/filtering by default. Cross highlighting and filtering are features that allow users to filter visuals based on the selection in other visuals. When these features are enabled, Power BI sends multiple queries to the database as users interact with the visuals. Disabling these features will reduce the number of queries sent to the database.

upvoted 1 times

Martin\_Nbg 5 months, 3 weeks ago

Selected Answer: AB

I so Wonder how people Vote for E. Since requirements is "Consumers of the reports must only be allowed to apply filters from the Filter pane." there shouldn't be slicers in the solution at all. For me, AB is the only remaining reasonable solution.

upvoted 1 times

Eltooth 6 months, 1 week ago

**Selected Answer: AE**

A and E are the logical answers.

upvoted 3 times

cloud76 6 months, 3 weeks ago

**Selected Answer: AE**

A. Add a single Apply button to the filter pane to apply changes at once: By adding a single Apply button to the filter pane, users can apply all the selected filters at once, rather than each filter triggering a separate query. This helps reduce the number of queries sent to the database.

E. Add an Apply button to each slicer to apply changes when you're ready: By adding an Apply button to each slicer, users can choose when to apply the changes made through the slicer. This way, the queries are only sent to the database when the users explicitly click the Apply button, reducing the overall number of queries.

upvoted 3 times

DarioReymago 9 months ago

**Selected Answer: AC**

I will agree with ajaysharma2061 because option e: says "Add an Apply button to each slicer to apply changes when you're ready" If this sentence were "Add an Apply button to ALL slicer to apply changes when you're ready" i'll select this

In this case option c is better than e

upvoted 1 times

DarioReymago 9 months ago

Sorry, with option c I broke the interaction between charts and keep this is a requirement

upvoted 1 times

ajaysharma2061 9 months, 1 week ago

The correct answer is A and C.

A. Add a single Apply button to the filter pane to apply changes at once: By adding a single Apply button to the filter pane, users can apply all the selected filters at once, reducing the number of queries sent to the database.

C. Disabling cross highlighting/filtering by default: Disabling cross-highlighting and filtering by default will limit the queries generated by visual interactions.

B and E are incorrect as they suggest adding Apply buttons to filters or slicers, which may cause more queries to be sent to the database as users interact with them.

D is also incorrect as ignoring privacy levels can potentially create security issues and is not related to reducing the number of queries sent to the database.

upvoted 2 times

Lesucks 8 months, 1 week ago

C changes the visual interactions which is supposed to remain unchanged as per requirements so its incorrect

upvoted 1 times

solref 9 months, 1 week ago

**Selected Answer: AE**

Reduce number of queries sent by : Slicers (E) and Filters (A)

In that way you can improve the performance

<https://www.datapears.com/post/power-bi-query-reduction-add-an-apply-all-filters-button-to-your-report>

upvoted 2 times

Az301301X 9 months, 2 weeks ago

**Selected Answer: AC**

Options B and E, adding Apply buttons to basic filters and slicers respectively, may help reduce the number of queries sent to the database, but they don't meet the requirement of allowing consumers to only apply filters from the Filter pane.

Option D, ignoring privacy levels, is not related to reducing the number of queries sent to the database. It's a security setting that determines how Power BI handles data sources with different levels of privacy.

upvoted 1 times

Az301301X 9 months, 2 weeks ago

A. Add a single Apply button to the filter pane to apply changes at once

C. Disabling cross highlighting/filtering by default

Explanation:

Adding a single Apply button to the filter pane allows consumers of the reports to apply filters from the Filter pane, rather than sending queries to the database every time a filter is changed. This will help reduce the number of queries sent to the database.

Disabling cross highlighting/filtering by default also helps reduce the number of queries sent to the database. Cross highlighting/filtering is a feature that allows interactions between visuals in a report. By disabling this feature, Power BI won't send queries to the database for each interaction, which can help improve performance.

upvoted 2 times

✉ **Az301301X** 9 months, 2 weeks ago

BTW: above answer was given by Chat GPT...

upvoted 1 times

✉ **ThariCD** 10 months, 3 weeks ago

I don't understand how the answer most people select could be D when the question says you should reduce the number of queries sent to the database. Changing the privacy levels doesn't affect the number of queries sent to the database does it?

upvoted 1 times

✉ **Fer079** 10 months, 3 weeks ago

**Selected Answer: AE**

The right answer is A and E.

A: because we send just a query when all the filters are set.

E: slicers are not included in the single Apply button to the filter pane, so we must put an extra button to run the slicers once they are set.

We cannot select the option C because the requirement says that "the visual interactions in all the reports must remain as they are configured currently", so interaction between the visual must exist

The option D does not reduce the number of queries sent to the source.

upvoted 4 times

✉ **cookiemonster42** 10 months, 3 weeks ago

A for sure because as a result only one query will be sent to AAS model instead of multiple.

D because When privacy levels are set on a data source, queries from Power BI to the data source have to be evaluated to ensure that only authorized data is returned. This process can add extra time to the query execution and impact performance. In some cases, having many privacy levels or complex privacy level evaluations can have a significant impact on performance. However, it is important to maintain privacy levels to ensure the protection of sensitive data. If performance is a concern, other methods such as optimizing the data model or using DirectQuery or Live Connection instead of Import can help improve performance while still maintaining privacy levels.

upvoted 1 times

✉ **Fer079** 10 months, 3 weeks ago

You are wrong, the requirement is to reduce the number of queries sent to the database and not the spent time for each query.

upvoted 1 times

✉ **Az301301X** 11 months, 1 week ago

**Selected Answer: AD**

These are the ones that make more sense...tricky though

upvoted 2 times

✉ **Saffar** 11 months, 3 weeks ago

**Selected Answer: AE**

answer is correct A,E

upvoted 2 times

✉ **jeroen12345** 1 year ago

Consumers of the reports must only be allowed to apply filters from the Filter pane. So E cannot be correct. I'd pick A & C

upvoted 3 times

✉ **6688Wj** 1 year ago

<https://www.datapears.com/post/power-bi-query-reduction-add-an-apply-all-filters-button-to-your-report>

upvoted 3 times

✉ **Ramiel** 1 year ago

Thanks for sharing this link! But after going through it, the correct answer is AE using PBI options. As noted in the link, the option E is suboptimal and can be improved, but it is not a setting that can be chosen by default.

upvoted 1 times

✉ **cookiemonster42** 11 months, 1 week ago

but this means that we won't reduce the number of queries as each click on this button will generate a new query

upvoted 1 times

## Question #78

## Topic 1

DRAG DROP -

You have a Power BI dataset that contains two tables named Table1 and Table2. The dataset is used by one report.

You need to prevent project managers from accessing the data in two columns in Table1 named Budget and Forecast.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions****Answer Area**

For Table1, set the permissions for the Project Manager role to **None**.

For the Budget and Forecast columns, set the permissions to **None**.

From Power BI Desktop, create a role named Project Managers.

From Power BI Desktop, add a DAX filter to the Project Managers role.

Open **DAX Studio**.

Open **Tabular Editor**.

For Table1, set the permissions for the Project Manager role to **Read**.

**Answer Area**

From Power BI Desktop, create a role named Project Managers.

Open **Tabular Editor**.

From Power BI Desktop, add a DAX filter to the Project Managers role.

For the Budget and Forecast columns, set the permissions to **None**.

Correct Answer:

 **jeroen12345**  1 year ago

1. Create Role
2. Open TE
3. Set table to Read
4. Set Column to None

upvoted 16 times

 **Fer079** 10 months, 3 weeks ago

I agree with you.  
We can see a good example in this video:  
<https://www.youtube.com/watch?v=PAX5GP9SkTA>

upvoted 3 times

 **Maazi** 1 year ago

I agree with these steps.  
Ref: <https://www.fourmoo.com/2021/03/02/configure-ols-in-power-bi-using-tabular-editor-to-limit-access-to-non-financial-measures/>

upvoted 3 times

 **Eltooth**  6 months, 1 week ago

From jeroen12345:

1. Create Role
2. Open TE
3. Set table to Read
4. Set Column to None

upvoted 1 times

✉  **DarioReymago** 9 months ago

PBI: Create Role  
PBI: filter role  
TE open  
TE: set col to none  
upvoted 1 times

✉  **soref** 9 months, 1 week ago

The Answer it is ok, I only disagree with the order  
link: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-ols?tabs=column>  
1. Create the role  
2. Add a DAX Filter to the PM Role  
3. Open Tabular Editor  
4. OLS -> Set Column to None (It allows PM see the table, but not the specific columns required)  
upvoted 2 times

✉  **Lolus** 4 months, 2 weeks ago

I agree with sooref and DarioReymago.  
Create the Role  
Filter the role  
Open Tabular Editor  
Set Budget and Forecast column to none.  
upvoted 1 times

✉  **Ramiel** 1 year ago

I would replace, Tabular Editor with Dax Studio in the given answer.  
upvoted 1 times

✉  **BigEd** 1 year ago

It won't be DAX Studio as you can only implement (OLS) through Tabular Editor  
upvoted 4 times

## Question #79

## Topic 1

You have a Power BI data model.

You need to refresh the data from the source every 15 minutes.

What should you do first?

- A. Configure a scheduled refresh.
- B. Change the storage mode of the dataset.
- C. Enable the XMLA endpoint.
- D. Define an incremental refresh policy.

**Correct Answer: A**

*Community vote distribution*

C (84%) A (16%)

✉️  **BigEd**  1 year ago

**Selected Answer: C**

You cannot schedule a refresh on 15-minute increments. Only 30, unless using XMLA endpoint.  
upvoted 9 times

✉️  **soref** 9 months, 1 week ago

You are right!  
upvoted 1 times

✉️  **Marco1984** 1 year ago

How do you know it's increment?  
upvoted 1 times

✉️  **PietSaman** 11 months, 1 week ago

You need to refresh it every 15 minute. Meaning its incremental.  
upvoted 1 times

✉️  **elimey**  2 months, 4 weeks ago

It didn't say incremental refresh. therefore, it can't be XMLA. I go for option A  
upvoted 2 times

✉️  **Eltooth** 6 months, 1 week ago

**Selected Answer: C**  
C is the correct answer.  
upvoted 1 times

✉️  **DarioReymago** 9 months ago

**Selected Answer: C**  
B or C, option c is better  
upvoted 2 times

✉️  **Az301301X** 9 months ago

**Selected Answer: A**  
Chat GPT  
A. Configure a scheduled refresh.  
To refresh data from the source every 15 minutes, you need to configure a scheduled refresh for your Power BI data model. The scheduled refresh setting allows you to define how often the data should be refreshed from the source, and you can set the frequency to as low as 15 minutes. Option B, changing the storage mode of the dataset, is not relevant to the issue of refreshing the data from the source every 15 minutes. Option C, enabling the XMLA endpoint, is not necessary to refresh the data from the source every 15 minutes. Option D, defining an incremental refresh policy, is not necessary to refresh the data from the source every 15 minutes. Incremental refresh is useful when you have a large dataset and want to reduce the data processing time by only updating the data that has changed since the last refresh.  
upvoted 3 times

✉️  **dera23** 9 months ago

This question is talking about PowerBI Desktop, all the responses are talking about the service.  
upvoted 1 times

✉️  **DarioReymago** 9 months ago

I'm disagree, it say PowerBI , not PowerBI Desktop  
upvoted 2 times

 **solref** 9 months, 1 week ago

**Selected Answer: C**

Refresh operations through the XMLA endpoint are not limited to 48 refreshes per day, and the scheduled refresh timeout is not imposed.

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>

<https://www.youtube.com/watch?v=YEIKzeNCqGg>

upvoted 1 times

 **louisaok** 11 months, 4 weeks ago

**Selected Answer: C**

If the dataset resides on a Premium capacity, you can schedule up to 48 refreshes per day in the dataset settings. For more information, see Configure scheduled refresh later in this article. Datasets on a Premium capacity with the XMLA endpoint enabled for read-write support unlimited refresh operations when configured programmatically with TMSL or PowerShell.

<https://learn.microsoft.com/en-us/power-bi/connect-data/refresh-data>

upvoted 3 times

## Question #80

## Topic 1

You have a dataset that contains a table named UserPermissions. UserPermissions contains the following data.

User	Region
CONTOSO\User1	1
CONTOSO\User2	2
CONTOSO\User3	1
CONTOSO\User4	3
CONTOSO\User4	5

You plan to create a security role named User Security for the dataset.

You need to filter the dataset based on the current users.

What should you include in the DAX expression?

- A. [UserPermissions] = USERPRINCIPALNAME()
- B. [User] = USERPRINCIPALNAME()
- C. [User] = USEROBJECTID()
- D. [UserPermissions] = USERNAME()
- E. [User] = USERNAME()

**Correct Answer: E**

*Community vote distribution*

E (100%)

✉  **Eltooth** 6 months, 1 week ago

**Selected Answer: E**

E is correct answer.

<https://dax.guide/username/>  
upvoted 3 times

✉  **stfglv** 11 months, 2 weeks ago

I agree but technically you could use B as well because: "You can use username() within this expression. Be aware that username() has the format of DOMAIN\username within Power BI Desktop. Within the Power BI service and Power BI Report Server, it's in the format of the user's User Principal Name (UPN). Alternatively, you can use userprincipalname(), which always returns the user in the format of their user principal name, username@contoso.com."

source: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-admin-rls>  
upvoted 1 times

✉  **jesnor** 1 year ago

Answer E is correct  
upvoted 2 times

✉  **AshwinN1992** 1 year ago

Please let me know answer  
upvoted 1 times

## Question #81

## Topic 1

You have an Azure Synapse Analytics serverless SQL pool.

You need to catalog the serverless SQL pool by using Azure Purview.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a managed identity in Azure Active Directory (Azure AD).
- B. Assign the Storage Blob Data Reader role to the Azure Purview managed service identity (MSI) for the storage account associated to the Synapse Analytics workspace.
- C. Assign the Reader role to the Azure Purview managed service identity (MSI) for the Synapse Analytics workspace.
- D. Assign the Owner role to the Azure Purview managed service identity (MSI) for the Azure Purview resource group.
- E. Register a data source.

**Correct Answer:** ABC

*Community vote distribution*

BCE (100%)

≡  **Ramiel**  1 year ago

**Selected Answer:** BCE

The Answer should be, in order:

- E. Register a data source
- C. Set the Reader role and enter your Microsoft Purview account name.
- B. Set the Storage blob data reader role and enter your Microsoft Purview account name.

Source: <https://learn.microsoft.com/en-us/azure/purview/register-scan-synapse-workspace?tabs=MI#authentication-for-enumerating-serverless-sql-database-resources>

upvoted 10 times

≡  **SamuComqi**  4 months, 2 weeks ago

**Selected Answer:** BCE

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Assign the Storage Blob Data Reader role to the Azure Purview managed service identity (MSI) for the storage account associated to the Synapse Analytics workspace.
- Assign the Reader role to the Azure Purview managed service identity (MSI) for the Synapse Analytics workspace.
- Register a data source.

upvoted 3 times

≡  **Plb2** 6 months, 1 week ago

BCE

Not A, because purview MSI is created by using The Microsoft Purview MSI Configuration script.<https://learn.microsoft.com/en-us/azure/purview/tutorial-msi-configuration#prerequisites>

upvoted 1 times

≡  **Eltooth** 6 months, 1 week ago

**Selected Answer:** BCE

B, C and E are correct.

Details are listed here: <https://learn.microsoft.com/en-us/azure/purview/register-scan-synapse-workspace?tabs=MI>

upvoted 2 times

≡  **ExamPage** 8 months, 3 weeks ago

THe Answer should be ABE

Note that assigning the Reader role to the Azure Purview managed service identity (MSI) for the Synapse Analytics workspace (option C) and the Owner role to the Azure Purview managed service identity (MSI) for the Azure Purview resource group (option D) are not required to catalog the serverless SQL pool in Azure Purview.

upvoted 1 times

≡  **soref** 9 months, 1 week ago

**Selected Answer:** BCE

B. C. E

<https://learn.microsoft.com/en-us/azure/purview/register-scan-synapse-workspace?tabs=MI#azure-synapse-serverless-database>

upvoted 2 times

 **Ramiel** 1 year ago

Managed Identity is optional, you can also set service principal or SQL Authentication:

<https://learn.microsoft.com/en-us/azure/purview/register-scan-synapse-workspace?tabs=SQLAuth#apply-permissions-to-scan-the-contents-of-the-workspace>

upvoted 2 times

## Question #82

## Topic 1

## HOTSPOT -

You need to recommend an automated solution to monitor Power BI user activity. The solution must meet the following requirements:

Security admins must identify when users export reports from Power BI within five days of a new sensitivity label being applied to the artifacts in Power BI.

Power BI admins must identify updates or changes to the Power BI capacity.

The principle of least privilege must be used.

Which log should you include in the recommendation for each group? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Security admins:

- the Azure Activity log
- the Power BI activity log
- the unified audit log in Microsoft 365

Power BI admins:

- the Azure Activity log
- the Power BI activity log
- the unified audit log in Microsoft 365

**Answer Area**

Correct Answer:

Security admins:

- the Azure Activity log
- the Power BI activity log
- the unified audit log in Microsoft 365

Power BI admins:

- the Azure Activity log
- the Power BI activity log
- the unified audit log in Microsoft 365

 **solref**  9 months, 1 week ago

Both cases are "PBI Activity log"

Please check it on:

<https://learn.microsoft.com/en-us/power-bi/admin/service-admin-auditing>

upvoted 5 times

 **MaryemSB** 1 week, 3 days ago

agree.

"Power BI audit logs include sensitivity label information about activities such as applying, removing, and changing labels, as well as about activities such as viewing reports, dashboards, etc. This gives Power BI and security admins visibility over sensitive data consumption"

Since Power BI activity log has least privilege than Unified Audit log O365, it's the right answer for both cases.

see link:

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-security-sensitivity-label-overview>

upvoted 1 times

 **ajaysharma2061** 9 months, 1 week ago

I agree with you. Power BI Activity log captures all the information regarding Power BI such as export, view etc activities. Unfed Audit Log for O365 needed for other O365 Services such as Word, Excel etc.

upvoted 1 times

 **Eltooth**  6 months, 1 week ago

1. Unified Audit log - least priv required, logs sensitivity labelling, therefore only users with Audit Log permissions (GA/auditors) can access.  
2. PBI Activity log - only logs PBI audit events

<https://learn.microsoft.com/en-us/power-bi/admin/service-admin-auditing#choosing-a-log-source>

upvoted 1 times

 **Dileep1** 8 months, 2 weeks ago

I think, given answer is correct.

upvoted 1 times

✉️ 🚩 **DarioReymago** 8 months, 4 weeks ago

weird question, both can be solve by PBI Activity log & unified

upvoted 1 times

✉️ 🚩 **stfglv** 11 months, 1 week ago

I would go with Power Bi activity log for the first one because exporting look like a type of activity that you could filter (see here <https://learn.microsoft.com/en-us/power-bi/admin/service-admin-auditing>). And for the second one I would go with unified audit log in Microsoft 365 as capacities for Premium are out of PBI scope (just as PBI capacity admins cannot change them but global admins can).

upvoted 2 times

✉️ 🚩 **Saffar** 11 months, 3 weeks ago

I think the answer is correct,

365 Audit is more about user activities, and power bi log is about the capacity and BI service related log

<https://learn.microsoft.com/en-us/power-bi/admin/service-admin-auditing#use-the-activity-log>

upvoted 2 times

✉️ 🚩 **louisaok** 11 months, 4 weeks ago

Power BI Admin: Power BI Activity Log

<https://learn.microsoft.com/en-us/power-bi/admin/service-admin-auditing>

upvoted 3 times

✉️ 🚩 **moreinva43** 11 months, 4 weeks ago

You might want to actually look up some of these on your own and not just expect everyone else to look it up for you and report back.

upvoted 4 times

✉️ 🚩 **AshwinN1992** 1 year ago

Is option correct

upvoted 1 times

## Question #83

## Topic 1

You have a Power BI workspace that contains one dataset and four reports that connect to the dataset.

The dataset uses import storage mode and contains the following data source:

A CSV file in an Azure Storage account.

An Azure Database for PostgreSQL database.

You plan to use deployment pipelines to promote the content from development to test to production. There will be different data source locations for each stage.

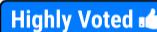
What should you include in the deployment pipeline to ensure that the appropriate data source locations are used during each stage?

- A. auto-binding across pipelines
- B. data source rules
- C. selective deployment
- D. parameter rules

**Correct Answer: D**

*Community vote distribution*

D (100%)

✉️  cherious  1 year ago

**Selected Answer: D**

Correct answer is D and here is why:

In the best practices for deployment, there is written that you can use both data source rules and parameters as well, however, they recommend parameters.

Source: <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-best-practices#use-parameters-in-your-model>

Also, data source rules is supported for limited data sources where I can not find Azure storage Account so I think data source won't be applicable to our case.

Source: <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-get-started#supported-data-sources-for-dataflow-and-dataset-rules>

upvoted 8 times

✉️  Maazi  1 year ago

D is the answer. This is based on what I read from <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-best-practices>

upvoted 5 times

✉️  Fer079  10 months, 3 weeks ago

**Selected Answer: D**

The option D (parameter rules) is the right answer.

Data source rules work for some specific sources only, below you can see the supported data sources for data set rules:

<https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-create-rules#supported-data-sources-for-dataflow-and-dataset-rules>

upvoted 2 times

✉️  stfgly 11 months, 1 week ago

Step 4 from this link <https://learn.microsoft.com/en-us/power-bi/create-reports/deployment-pipelines-get-started> makes me think we should go with D.

upvoted 1 times

✉️  solref 9 months, 1 week ago

Thanks for the link :)

upvoted 1 times

✉️  BigEd 1 year ago

Correct answer is B. Data Source rules are used to switch datasources when using Deployment Pipelines. Parameter Rules only work when you have created parameters within the Power BI Desktop File (.pbix)

upvoted 3 times

✉️  Maazi 1 year ago

Having cross-check this again, I'm leaning towards B too. Will be good to see what others think too.

upvoted 2 times

## Question #84

## Topic 1

You are planning a Power BI solution for a customer.

The customer will have 200 Power BI users. The customer identifies the following requirements:

Ensure that all the users can create paginated reports.

Ensure that the users can create reports containing AI visuals.

Provide autoscaling of the CPU resources during heavy usage spikes.

You need to recommend a Power BI solution for the customer. The solution must minimize costs.

What should you recommend?

- A. a Power BI Premium per capacity
- B. Power BI Report Server
- C. Power BI Premium per user
- D. Power BI Pro per user

**Correct Answer: C**

*Community vote distribution*



✉️ **louisaoak** 11 months, 2 weeks ago

**Selected Answer: A**

<https://powerbi.microsoft.com/en-au/pricing/>

"Enable autoscale with your Azure subscription to automatically scale Power BI Premium capacity."

upvoted 6 times

✉️ **Maddy723** 4 months, 4 weeks ago

**Selected Answer: A**

Answer is A - Autoscale is not available with PPU

upvoted 2 times

✉️ **Alborz** 5 months ago

**Selected Answer: C**

Power BI Premium per capacity provides dedicated resources for the entire organization, which can be beneficial when you have a large number of users who need access to the same Premium features. It allows for greater control and flexibility in managing resources and workloads across the organization.

However, if the customer has 200 Power BI users and they all require access to paginated reports and AI visuals, Power BI Premium per user (option C) would be more cost-effective. With Power BI Premium per user, each individual user gets access to the Premium features, and the customer only pays for the licenses needed for the 200 users.

In summary, both options (Power BI Premium per capacity and Power BI Premium per user) can meet the stated requirements, but option C (Power BI Premium per user) is likely to be the more cost-effective choice for a customer with 200 Power BI users.

upvoted 1 times

✉️ **Eltooth** 6 months, 1 week ago

**Selected Answer: A**

A is correct answer.

upvoted 1 times

✉️ **Plb2** 6 months, 1 week ago

**Selected Answer: C**

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-faq#how-can-i-control-the-costs-of-autoscaling->

"Autoscaling is an optional feature of Power BI Premium"

upvoted 2 times

✉️ **solref** 9 months, 1 week ago

**Selected Answer: A**

<https://powerbi.microsoft.com/en-au/pricing/#premium-add-on-card-autoscale>

Premium capacity enables customers to automatically add compute capacity to avoid slowdowns under heavy use, using Autoscale.

upvoted 3 times

✉️ **Fer079** 10 months, 3 weeks ago

**Selected Answer: C**

Power BI Premium per user supports autoscaling compute capacity (It's supported for all Power BI premiums):  
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-auto-scale>

Also, it supports until 200 users, and it's cheaper than Power BI Premium per capacity  
upvoted 1 times

✉ **cherious** 1 year ago

**Selected Answer: A**

Because of auto scale, Premium Per Capacity must be selected  
upvoted 4 times

✉ **BigEd** 1 year ago

It's better to use PPU when it's less than 250 users. Answer C is correct.  
upvoted 2 times

✉ **BigEd** 1 year ago

Scratch that. Because of autoscale A is correct.  
upvoted 4 times

✉ **ABHI2023** 1 year ago

**Selected Answer: A**

Reference : <https://powerbi.microsoft.com/en-au/pricing/>  
upvoted 3 times

## Question #85

## Topic 1

## HOTSPOT -

You need to configure a source control solution for Azure Synapse Analytics. The solution must meet the following requirements:

Code must always be merged to the main branch before being published, and the main branch must be used for publishing resources.

The workspace templates must be stored in the publish branch.

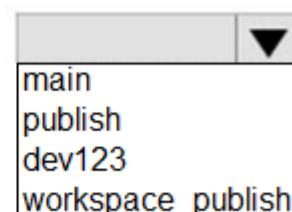
A branch named dev123 will be created to support the development of a new feature.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

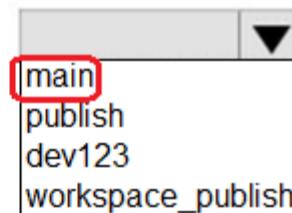
Set the collaboration branch to:



Base the dev123 branch on:

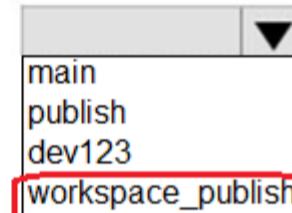
**Answer Area**

Set the collaboration branch to:



**Correct Answer:**

Base the dev123 branch on:



lvgo **Highly Voted** 5 months, 3 weeks ago

Set the collaboration branch to: main

Base the dev123 branch on: main (you can not base dev123 on the Publish branch)

upvoted 8 times

cherious **Highly Voted** 1 year ago

main & workspace\_publish.

I think the answer is correct.

"By default, Synapse Studio generates the workspace templates and saves them into a branch called workspace\_publish."

Source: <https://learn.microsoft.com/en-us/azure/synapse-analytics/cicd/source-control#configure-publishing-settings>

upvoted 7 times

PaulinhoDummett **Most Recent** 4 months, 2 weeks ago

main & main

You will usually always want to base a feature branch off the main branch. The publish branch does not contain any of the actual resources, just a template for deployment.

upvoted 3 times

Dileep1 8 months, 2 weeks ago

I think answer is main and main. Collaboration branch is main and dev branch should be based on main know. Why do we need to base it on publish branch generated by workspace?

upvoted 4 times

DarioReymago 8 months, 3 weeks ago

main & workspace\_publish  
<https://learn.microsoft.com/en-us/azure/synapse-analytics/cicd/source-control#creating-feature-branches>  
upvoted 3 times

👤 **Ramiel** 1 year ago

I think the answer should be:

- main
- publish

As the question states:

The workspace templates must be stored in the publish branch.

upvoted 5 times

## Question #86

Topic 1

You have five Power BI reports that contain R script data sources and R visuals.

You need to publish the reports to the Power BI service and configure a daily refresh of datasets.

What should you include in the solution?

- A. a Power BI Embedded capacity
- B. a workspace that connects to an Azure Data Lake Storage Gen2 account
- C. an on-premises data gateway (personal mode)
- D. an on-premises data gateway (standard mode)

**Correct Answer: C**

*Community vote distribution*

C (100%)

👤 **cherious** Highly Voted 1 year ago

**Selected Answer: C**

To schedule refresh of your R visuals or dataset, enable scheduled refresh and install an on-premises data gateway (personal mode) on the computer containing the workbook and R.

Source: <https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-r-in-query-editor#considerations-and-limitations>

upvoted 8 times

👤 **louisaok** Most Recent 11 months, 2 weeks ago

**Selected Answer: C**

C is correct.

\*On-premise data gateway (personal mode): 1 user, no sharing with other users, for you to publish reports without sharing the data source with others. Allows only A specific user to manage data within the data source. It means other users Can't connect to it.

\*On-premise data gateway (standard mode): allow a team of users to connect, ideal for a large number of users using the reports and need to access to the data sources.

upvoted 3 times

👤 **AshwinN1992** 1 year ago

Is this correct ?

upvoted 1 times

## Question #87

## Topic 1

You have a 2-GB Power BI dataset.

You need to ensure that you can redeploy the dataset by using Tabular Editor. The solution must minimize how long it will take to apply changes to the dataset from powerbi.com.

Which two actions should you perform in powerbi.com? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Enable service principal authentication for read-only admin APIs.
- B. Connect the target workspace to an Azure Data Lake Storage Gen2 account.
- C. Turn on Large dataset storage format.
- D. Enable XMLA read-write.

**Correct Answer:** CD

*Community vote distribution*

CD (100%)

✉️  **hoss29** 1 month ago

**Selected Answer: CD**

Enable XMLA read-write to connect the dataset to Tabular Editor

Enable the large dataset format to get better performance, as this is recommended even for datasets that do not qualify as large (10GB)  
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>

upvoted 1 times

✉️  **Eltooth** 6 months, 1 week ago

**Selected Answer: CD**

C and D are correct answers.

upvoted 3 times

✉️  **ThariCD** 10 months, 3 weeks ago

You need XMLA read-write for Tabular Editor for metadata operations: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>

And as pointed out below, you need to enable the Large dataset storage format when using XMLA endpoint write operations  
upvoted 3 times

✉️  **Saffar** 11 months, 3 weeks ago

correct

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-large-models>

upvoted 3 times

✉️  **stfglv** 11 months, 1 week ago

The part after "even" from that link removes all doubt considering that the dataset in question is only 2GB: While required for datasets to grow beyond 10 GB, enabling the Large dataset storage format setting has other benefits. If you're planning to use XMLA endpoint-based tools for dataset write operations, be sure to enable the setting, even for datasets that you wouldn't necessarily characterize as a large dataset. When enabled, the large dataset storage format can improve XMLA write operations performance.

upvoted 2 times

## Question #88

## Topic 1

You have new security and governance protocols for Power BI reports and datasets. The new protocols must meet the following requirements:

New reports can be embedded only in locations that require authentication.

Live connections are permitted only for workspaces that use Premium capacity datasets.

Which three actions should you recommend performing in the Power BI Admin portal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. From Embed Codes, delete all the codes.
- B. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets.
- C. From Capacity settings, set XMLA Endpoint to Read Write.
- D. From the Premium per user settings, set XMLA Endpoint to Off.
- E. From Tenant settings, set Publish to web to Disable.

**Correct Answer: BCE**
*Community vote distribution*


jesnor Highly Voted 1 year ago

Only A, D, E makes sense  
upvoted 7 times

cherious Highly Voted 12 months ago

Selected Answer: ADE  
I changed my answer. B would not be correct because if you disable XMLA then you won't be able to embed the reports in the locations that require authentication. Plus, when the user uses Analyze service feature he/she goes through authorization  
upvoted 5 times

ExamPage Most Recent 4 months, 3 weeks ago

Selected Answer: ABE

The correct answers are A, B, and E.

- A. From Embed Codes, delete all the codes. This will prevent users from embedding reports in locations that do not require authentication.
- B. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets. This will prevent users from connecting to datasets using XMLA endpoints, which is a way to programmatically access data in Power BI.
- C. From Capacity settings, set XMLA Endpoint to Read Write. This is not necessary, as the Allow XMLA endpoints setting in Tenant settings will control whether or not XMLA endpoints are enabled for all capacities.
- D. From the Premium per user settings, set XMLA Endpoint to Off. This is not necessary, as the Allow XMLA endpoints setting in Tenant settings will control whether or not XMLA endpoints are enabled for all capacities, including Premium per user capacities.
- E. From Tenant settings, set Publish to web to Disable. This will prevent users from publishing reports to the web, which is a way to make reports accessible to anyone with an internet connection.

upvoted 2 times

ExamPage 4 months, 3 weeks ago

The other options are incorrect.

- C. From Capacity settings, set XMLA Endpoint to Read Write. This is not necessary, as the Allow XMLA endpoints setting in Tenant settings will control whether or not XMLA endpoints are enabled for all capacities.
- D. From the Premium per user settings, set XMLA Endpoint to Off. This is not necessary, as the Allow XMLA endpoints setting in Tenant settings will control whether or not XMLA endpoints are enabled for all capacities, including Premium per user capacities.

upvoted 1 times

ajaysharma2061 9 months, 1 week ago

Correct Answers: B, D , E

Based on the requirements, the following three actions should be recommended in the Power BI Admin portal:

- B. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets. This will restrict the use of XMLA endpoints and prevent users from analyzing on-premises datasets in Excel.
- D. From the Premium per user settings, set XMLA Endpoint to Off. This will ensure that users with Premium per user licenses cannot use XMLA endpoints.
- E. From Tenant settings, set Publish to web to Disable. This will prevent reports and dashboards from being shared publicly using Publish to web, ensuring that they are only embedded in locations that require authentication.

Therefore, the correct answers are B (disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets), D (set XMLA Endpoint to Off for Premium per user settings), and E (set Publish to web to Disable in Tenant settings).

upvoted 2 times

Az301301X 9 months, 2 weeks ago

**Selected Answer: BCE**

The requirements state that new reports can only be embedded in authenticated locations and live connections should only be allowed for workspaces with Premium capacity datasets. To meet these requirements, the following actions should be recommended in the Power BI Admin portal:

- B. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets: This will disable the ability to use XMLA endpoints and analyze on-premises datasets, which helps to ensure that data is only accessible through authenticated channels.
- C. From Capacity settings, set XMLA Endpoint to Read Write: This will allow read and write access to the XMLA endpoint for Premium capacity workspaces, which can help to ensure that data is only accessible through authenticated channels.
- E. From Tenant settings, set Publish to web to Disable: This will disable the ability to publish reports to the web, which can help to ensure that data is only accessible through authenticated channels.

upvoted 1 times

✉ **ajaysharma2061** 9 months, 1 week ago

Please ask ChatGPT Again that are you sure and this will change the answer. You can try two three times, till you get the right answer ;)

upvoted 1 times

✉ **Az301301X** 9 months, 2 weeks ago

Therefore, the recommended actions are:

- B. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets.
- C. From Capacity settings, set XMLA Endpoint to Read Write.
- E. From Tenant settings, set Publish to web to Disable.

upvoted 1 times

✉ **Az301301X** 9 months, 2 weeks ago

BTW: These answers were given by Chat GPT

upvoted 1 times

✉ **Fer079** 10 months, 2 weeks ago

**Selected Answer: CDE**

C,D,E

C - I think that the XMLA Endpoint property must be enabled read-write by the capacity admin (by default this is set to read only):

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools#security>

Also, you can see here that "Allow XMLA endpoints and Analyze in Excel with on-premises datasets" option should be enabled, so the option B is not correct.

D - As the question says "Live connections are permitted only for workspaces that use Premium capacity datasets" then we should disable the XMLA Endpoint for Premium per user settings

E - Set Publish to web to disable will avoid to publish to public webs, also when this option is disabled then all the existing Embed Codes are disabled too, so it's not necessary to delete them (Option A would be optional in this case)

<https://learn.microsoft.com/en-us/power-bi/admin/service-admin-portal-embed-codes#disable-embed-codes>

upvoted 1 times

✉ **Ngol** 11 months, 3 weeks ago

**Selected Answer: ADE**

ADE is correct

upvoted 4 times

✉ **cherious** 1 year ago

**Selected Answer: BDE**

BC can't be both happen simultaneously:

"In addition to the XMLA Endpoint property being enabled read-write by the capacity admin, the tenant-level setting Allow XMLA endpoints and Analyze in Excel with on-premises datasets must be enabled in the admin portal."

Source: <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools#security>

upvoted 3 times

✉ **AshwinN1992** 1 year ago

Please confirm the options

upvoted 1 times

✉ **stfgiv** 11 months ago

ADE is the correct answer for sure

upvoted 2 times

## Question #89

## Topic 1

You need to provide users with a reproducible method to connect to a data source and transform the data by using an AI function. The solution must meet the following requirement:

- Minimize development effort.
- Avoid including data in the file.

Which type of file should you create?

- A. PBIT
- B. PBIDS
- C. PBIX

**Correct Answer: A**

*Community vote distribution*

A (55%)	B (45%)
---------	---------

✉  **solref** Highly Voted 9 months ago

Selected Answer: B

B)

Creating a PBIDS file is the best option to provide users with a reproducible method to connect to a data source and transform the data by using an AI function while minimizing development effort and avoiding including data and visualization in the file.

upvoted 6 times

✉  **Deloro** Most Recent 3 months, 2 weeks ago

avoid keeping data in the FILE !!!! > so A PBIT

since PBIX and PBIDS keep data in file

upvoted 2 times

✉  **DarioReymago** 8 months, 3 weeks ago

Selected Answer: A

<https://www.youtube.com/watch?v=GJoxzflQo6o>

a) with template we reduce development effort

upvoted 3 times

✉  **ajaysharma2061** 9 months, 1 week ago

Option A

Remember, a PBIT (Power BI Template) file can include source connection details and report layout, and can be used to provide users with a reproducible method to connect to a data source and transform the data by using an AI function.

A PBIT file is similar to a PBIX file, but it does not include any data. It contains the report layout, data source connection details, and other settings required to create a report. By using a PBIT file, you can provide users with a pre-built report template that they can use to connect to a data source and generate a report.

Therefore, both A (PBIT) and B (PBIDS) could be correct answers depending on the exact requirements of the solution. If the solution requires providing a pre-built report template that includes source connection details and report layout, then A (PBIT) would be the correct answer. If the solution only requires providing a data source connection that can be reused across multiple reports or models, then B (PBIDS) would be the correct answer.

upvoted 2 times

✉  **ThariCD** 10 months, 3 weeks ago

Selected Answer: A

As per previous comments, since you need to include AI functions, a PBIDS (which is only a link to the datasource) isn't enough and PBIX includes the data so PBIT is the correct answer.

upvoted 1 times

✉  **stfglv** 11 months, 1 week ago

The "Working with Power BI and PBIDS" section of this link: <https://www.mssqltips.com/sqlservertip/6444/power-bi-data-source-pbids-files/> clearly shows that users working with PBIDS get direct access to the data itself. This contradicts the second requisite in the question so it has to be PBIT (in case you weren't convinced so far).

upvoted 2 times

✉  **louisaoak** 11 months, 4 weeks ago

Selected Answer: A

PBIT, because "Avoid including data in the file."

upvoted 4 times

cherious 1 year ago

Selected Answer: A

PBIT is correct answer because we are transforming data with an AI function in addition to connecting data source.

PBIT are used to store: queries, parameters, data models (schemas, relationships between tables, measures, etc.), report pages, visualizations and other report elements.

If you want to save only the link to the data source you will create a PBIDS file.

Source: <https://excelk.com/en/pbit-and-pbids-files/>

upvoted 3 times

Ramiel 1 year ago

Selected Answer: B

The answer should be: B. PBIDS

PBIDS files are templates of a connection to data:

<https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-data-sources#using-pbids-files-to-get-data>

upvoted 3 times

6688Wj 1 year ago

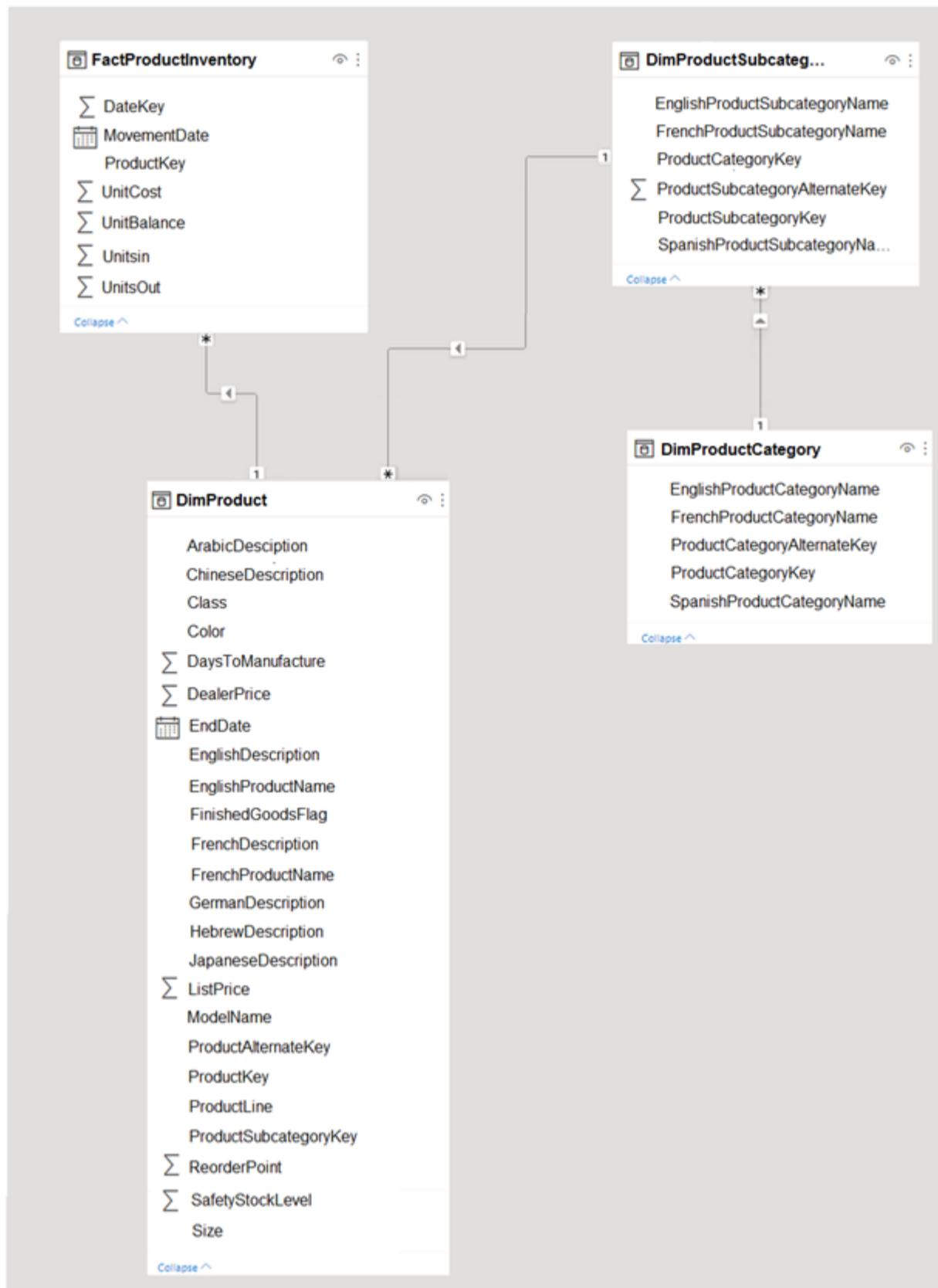
Answer Is B, maek a connection to a data source

upvoted 3 times

## Question #90

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend moving all the measures to a calculation group.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

*Community vote distribution*

B (100%)

Eltooth 6 months, 1 week ago

**Selected Answer: B**

B is correct answer.

upvoted 1 times

cherious 1 year ago

**Selected Answer: B**

Answer is NO.

Moving measures to calculation group only reduces number of measures and has no impact on the calculation speed.

upvoted 4 times

✉  **stfglv** 11 months ago

Also, I see no measures in the depiction of the model (there are no small calculator icons next to fields i.e. columns)

upvoted 1 times

✉  **AshwinN1992** 1 year ago

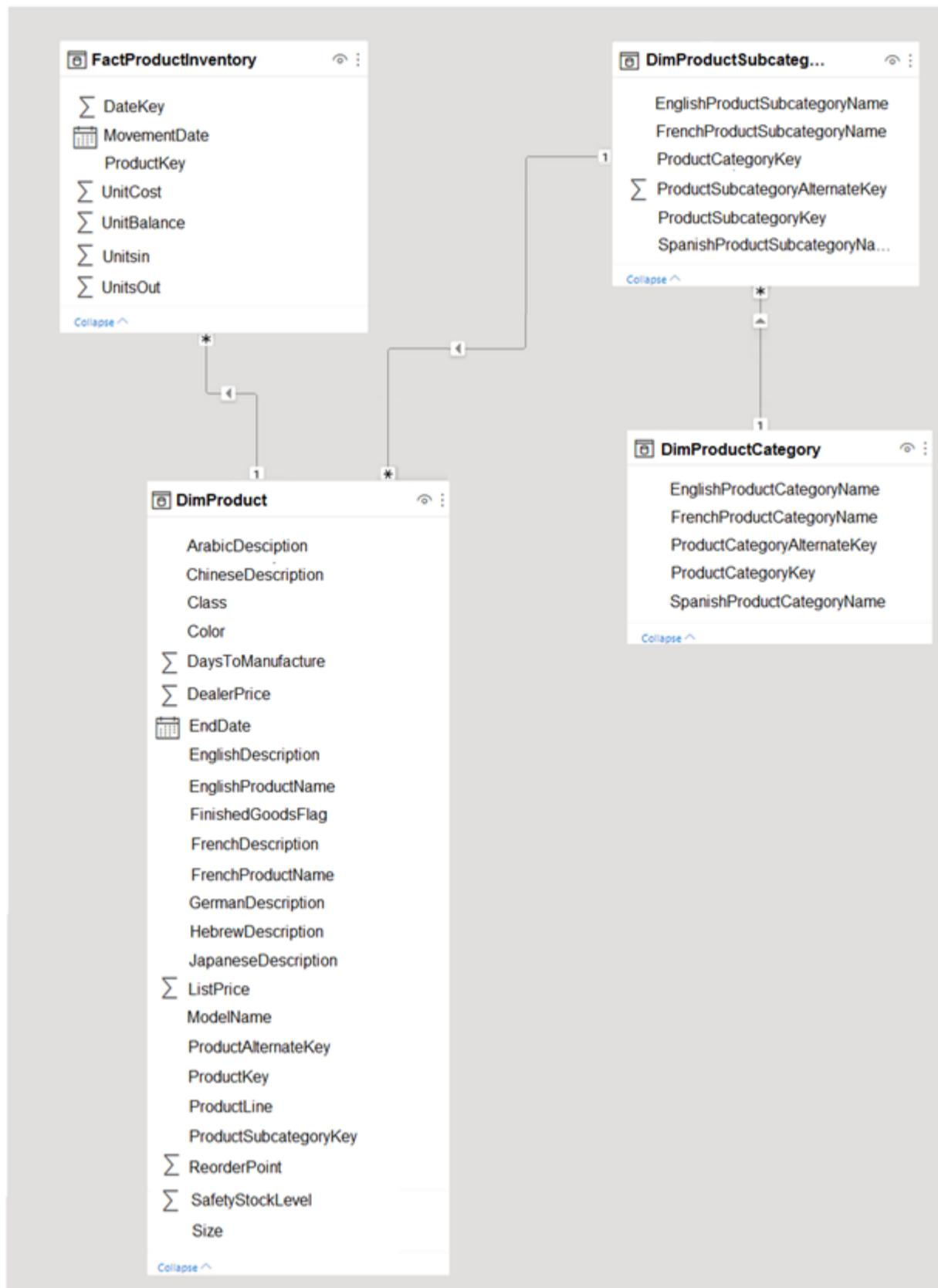
Please confirm the answer

upvoted 1 times

## Question #91

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend creating a perspective that contains the commonly used fields.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

*Community vote distribution*

B (100%)

**cookiemonster42** 11 months, 1 week ago

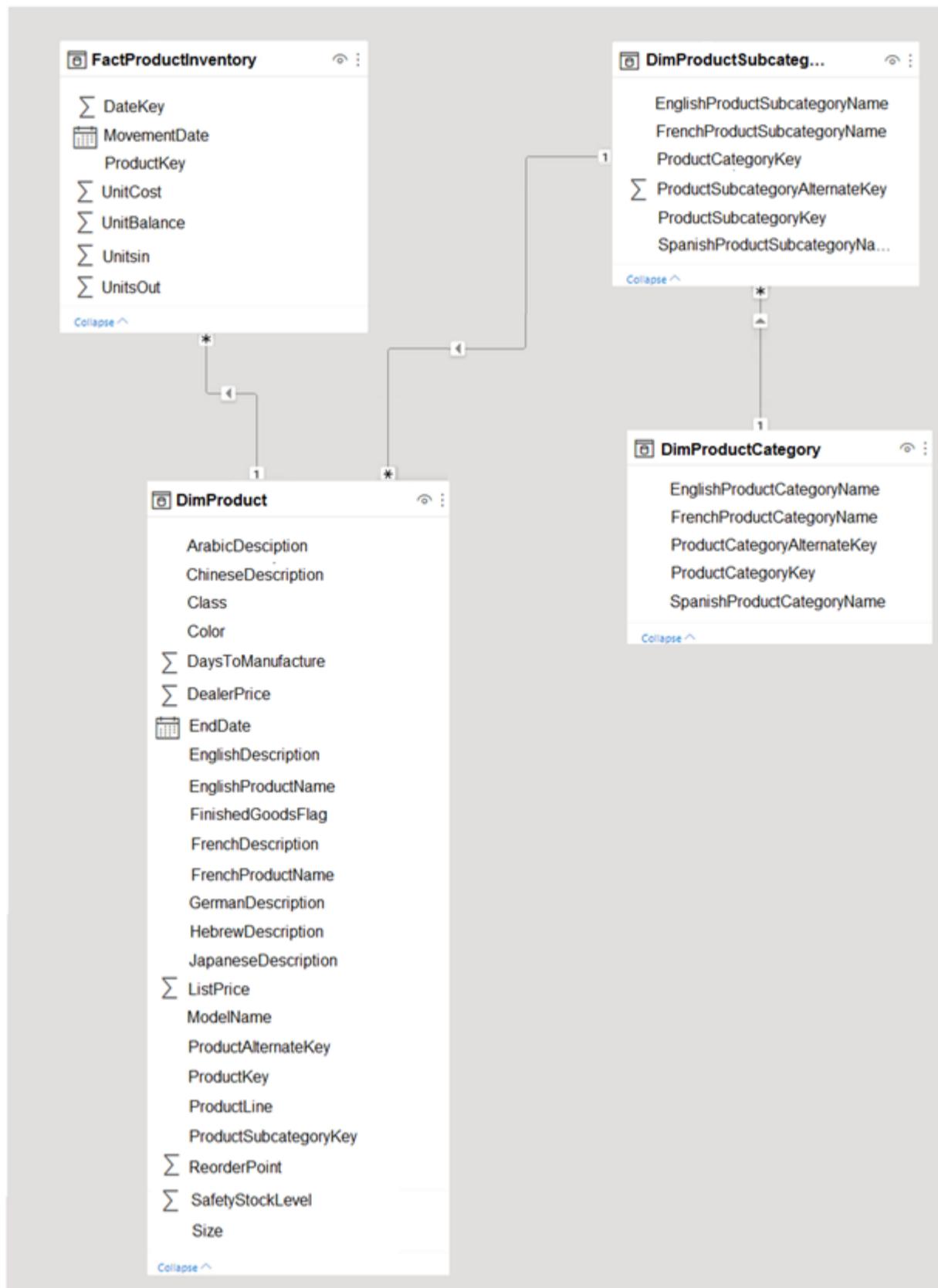
**Selected Answer: B**

I think B (no), because perspective only affects the view of the dataset, not its structure.  
upvoted 7 times

## Question #92

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend denormalizing the data model.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: A**

*Community vote distribution*

A (89%)

11%

**Qordata** 2 months, 3 weeks ago

**Selected Answer: B**

Definitely the answer should no as per the best practices which suggest using star schema then the deformed single table  
<https://learn.microsoft.com/en-us/power-bi/guidance/star-schema>

Advantage of using star schema slim model over denormalized table fat model is very well captured in this article

<https://www.sqlbi.com/articles/power-bi-star-schema-or-single-table/>

But these questions really depend upon the different options that come up here if there is no question with star schema then this might be correct but i would go with Star Schema option if i do not know what the other questions options would be given.

upvoted 1 times

✉ **Deloro** 3 months, 2 weeks ago

see q108 > normalizing is not the way

upvoted 1 times

✉ **Eltooth** 6 months, 1 week ago

**Selected Answer: A**

A is correct answer.

upvoted 1 times

✉ **ThariCD** 10 months, 3 weeks ago

**Selected Answer: A**

This link clearly explains the answer <https://data-mozart.com/mastering-dp-500-exam-optimize-data-model-by-using-denormalization/>

upvoted 4 times

✉ **07kamil** 11 months, 1 week ago

**Selected Answer: A**

Denormalization is an answer here

upvoted 3 times

## Question #93

## Topic 1

DRAG DROP -

You have a shared dataset in Power BI named Dataset1.  
 You have an on-premises Microsoft SQL Server database named DB1.  
 You need to ensure that Dataset1 refreshes data from DB1.  
 Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Install the on-premises data gateway (standard mode).	
Create a virtual network data gateway.	
Install the on-premises data gateway (personal mode).	◀
Configure a private endpoint.	▶
From powerbi.com, add a data source to the gateway clusters.	↑
From powerbi.com, configure Dataset1 to use a data gateway.	↓



**Answer Area**

**Correct Answer:**

**SamuComqi** Highly Voted  4 months, 2 weeks ago

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Install the on-premises data gateway (standard mode)
- From powerbi.com, add a data source to the gateway clusters
- From powerbi.com, configure Dataset1 to use a data gateway

upvoted 7 times

**CeliaML** Most Recent  2 months ago

Agree with you, but, why not a gateway in a personal mode?

upvoted 1 times

**MaryemSB** 4 days, 21 hours ago

standard mode is recommended

<https://powerbidocs.com/2021/02/22/personal-vs-on-premises-data-gateway-standard/>

upvoted 1 times

**DarioReymago** 8 months, 3 weeks ago

It can be ok but

cluster is for high availability and use more than 1 gateway at the same time for high volumen , the needed dont talk about this and does not talk about more than 1 gateway.

this step is not necesary in fact

upvoted 2 times

**DarioReymago** 8 months, 3 weeks ago

I correct myself, it is ok

<https://powerbi.tips/2019/10/building-a-gateway-cluster/>

upvoted 2 times

✉️  **stfglv** 11 months, 2 weeks ago

I would agree with this answer  
upvoted 2 times

✉️  **stfglv** 11 months, 1 week ago

Also the 2nd step (with clusters) makes perfect sense considering how clusters are defined here <https://learn.microsoft.com/en-us/data-integration/gateway/service-gateway-high-availability-clusters>  
upvoted 2 times

## Question #94

## Topic 1

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode. A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.
- B. Configure the dataset to use a composite model that has a DirectQuery connection to the fact table.
- C. Enable the large dataset storage format for workspace.
- D. From Capacity settings in the Power BI Admin portal, increase the Max Intermediate Row Set Count setting.

**Correct Answer: B***Community vote distribution*

✉️ **TheSwedishGuy** 2 months ago

C says ChatGPT.  
upvoted 1 times

✉️ **Qordata** 2 months, 3 weeks ago

**Selected Answer: C**  
sorry did not vote for the answer C  
upvoted 1 times

✉️ **Qordata** 2 months, 3 weeks ago

To reduce the size of queries so it does not refresh the complete dataset i think most logical solution is incremental refresh the recommended approach is to enable the large dataset storage format for workspace

For datasets published to workspaces assigned to Premium capacities, if you think the dataset will grow beyond 1 GB, you can improve refresh operation performance and ensure the dataset doesn't max out size limits by enabling Large dataset storage format before performing the first refresh operation in the service.

<https://learn.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-overview#publish>  
upvoted 1 times

✉️ **Eltooth** 6 months, 1 week ago

**Selected Answer: B**  
B is the correct answer.  
upvoted 2 times

✉️ **stfglv** 11 months, 1 week ago

Not only what per\_ing said, but also A and D apply only to DirectQuery mode (whereas the Q clearly states Import) and the Large format setting makes no sense for a dataset of the size 1GB considering that the Premium capacity has the 10GB limit and we know we are talking about Premium because that is the prerequisites for deployment pipelines altogether. In short, the system of elimination (if not common sense) leaves us with B.  
upvoted 4 times

✉️ **per\_ing** 11 months, 2 weeks ago

**Selected Answer: B**  
I think this is correct as it is one of the suggestions from Microsoft <https://learn.microsoft.com/en-us/power-bi/guidance/import-modeling-data-reduction#switch-to-mixed-mode>  
upvoted 2 times

✉️ **Qordata** 2 months, 3 weeks ago

The recommendation is for reduction of size of the dataset and here we need to reduce the size of the queries during refresh so this solution does not make sense  
upvoted 1 times

## Question #95

## Topic 1

You are using GitHub as a source control solution for an Azure Synapse Studio workspace.

You need to modify the source control solution to use an Azure DevOps Git repository.

What should you do first?

- A. Disconnect from the GitHub repository.
- B. Create a new pull request.
- C. Change the workspace to live mode.
- D. Change the active branch.

**Correct Answer:** A

*Community vote distribution*

A (100%)

✉️  **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: A**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Disconnect from the GitHub repository

upvoted 1 times

✉️  **Maazi** 1 year ago

**Selected Answer: A**

Source: <https://learn.microsoft.com/en-us/azure/synapse-analytics/cicd/source-control>

upvoted 4 times

## Question #96

## Topic 1

You have a Power BI tenant that contains 10 workspaces.

You need to create dataflows in three of the workspaces. The solution must ensure that data engineers can access the resulting data by using Azure Data Factory.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create and save the dataflows to the internal storage of Power BI.
- B. Add the managed identity for Data Factory as a member of the workspaces.
- C. Associate the Power BI tenant to an Azure Data Lake Storage account.
- D. Create and save the dataflows to an Azure Data Lake Storage account.

**Correct Answer: CD***Community vote distribution*

✉️ **per\_ing** Highly Voted 11 months, 2 weeks ago

**Selected Answer: CD**

I think this is correct <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>  
upvoted 6 times

✉️ **Deloro** Most Recent 3 months ago

**Selected Answer: BD**

would gues bd  
upvoted 1 times

✉️ **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: BD**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.  
My answer was:  
- Add the managed identity for Data Factory as a member of the workspaces.  
- Create and save the dataflows to an Azure Data Lake Storage account.  
upvoted 1 times

✉️ **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: BD**

ByD as ajaysharma2061 said  
upvoted 2 times

✉️ **ajaysharma2061** 9 months, 1 week ago

Correct Answer: BD

To ensure that data engineers can access the resulting data by using Azure Data Factory, you should perform the following two actions:

- B. Add the managed identity for Data Factory as a member of the workspaces: This step ensures that Data Factory has access to the Power BI workspaces where the dataflows are located.
- D. Create and save the dataflows to an Azure Data Lake Storage account: This step ensures that the dataflows are saved to a location that can be accessed by Azure Data Factory.

Therefore, the correct answers are B and D.

Option A is incorrect because saving dataflows to the internal storage of Power BI does not provide a location that can be accessed by Azure Data Factory.

Option C is also incorrect because associating the Power BI tenant to an Azure Data Lake Storage account does not automatically save the dataflows to the storage account. The dataflows must still be created and saved to the storage account separately.

upvoted 2 times

✉️ **sgodd\_0298** 8 months, 1 week ago

You just gave the answer in your Option C explanation. Answers are C and D because you associate the PBI tenant to an Azure Data Lake Storage account, THEN create and save the dataflows to an Azure Data Lake Storage account. Each answer is PART of a solution.

upvoted 6 times

## Question #97

## Topic 1

You are implementing a reporting solution that has the following requirements:

Reports for external customers must support 500 concurrent requests. The data for these reports is approximately 7 GB and is stored in Azure Synapse Analytics.

Reports for the security team use data that must have local security rules applied at the database level to restrict access. The data being reviewed is 2 GB.

Which storage mode provides the best response time for each group of users?

- A. Import for the external customers and DirectQuery for the security team.
- B. DirectQuery for the external customers and import for the security team.
- C. DirectQuery for the external customers and DirectQuery for the security team.
- D. Import for the external customers and import for the security team.

**Correct Answer: B**

*Community vote distribution*

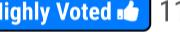
A (100%)

✉️  **louisaok**  11 months, 2 weeks ago

**Selected Answer: A**

Agree that A is correct. Thanks for your links.

upvoted 7 times

✉️  **stfglv**  11 months, 2 weeks ago

A is the correct answer. The external users problem is solved by Import mode, as explained here <https://community.powerbi.com/t5/Service/One-report-for-multiple-users-simultaneously/m-p/1749731#M124530>. And the security team requirements involves security at the data source level which can only be achieved through DirectQuery as explained under DirectQuery use cases on this link <https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-directquery-about>.

upvoted 5 times

✉️  **SamuComqi**  4 months, 2 weeks ago

**Selected Answer: A**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Import for the external customers and DirectQuery for the security team.

upvoted 1 times

✉️  **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: A**

<https://learn.microsoft.com/en-us/power-bi/connect-data/desktop-directquery-about#the-underlying-source-defines-security-rules>

upvoted 4 times

✉️  **QuangTrinh** 11 months, 2 weeks ago

**Selected Answer: A**

A should be correct answer

upvoted 5 times

## Question #98

## Topic 1

DRAG DROP -

You have a Power BI dataset that contains the following measures:

Budget -

Actuals -

Forecast -

You create a report that contains 10 visuals.

You need to provide users with the ability to use a slicer to switch between the measures in two visuals only.

You create a measure named CG Measure Switch.

How should you complete the DAX expression for the Actuals measure? To answer, drag the appropriate values to the targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Values	Answer Area
ISSELECTEDMEASURE()	
SELECTEDMEASURENAME()	IF( [ ] = "CG Measure Switch", [Actuals],
SELECTEDMEASURE()	[ ] )
SELECTEDVALUE()	

**Answer Area**

**Correct Answer:**

```
IF( ISSELECTEDMEASURE() = "CG Measure Switch", [Actuals],
    SELECTEDMEASURE() )
```

✉ **cookiemonster42** Highly Voted 11 months, 1 week ago

SELECTEDMEASURENAME and SELECTEDMEASURE

As Maazi said, ISSELECTEDMEASURE() returns boolean and SELECTEDVALUE is irrelevant.

upvoted 10 times

✉ **Ramiel** Highly Voted 1 year ago

The answer should be:

SELECTEDMEASURENAME()

and

SELECTEDVALUE()

This question already appeared, and this was the provided (correct, IMO) answer.

upvoted 6 times

✉ **mocashe** 6 months, 3 weeks ago

Yes, you are right. This same question already exists in #75. So, the answer should be SELECTEDMEASURENAME() and SELECTEDVALUE().

upvoted 3 times

✉ **Maazi** 1 year ago

I agree with you. Moreover, the ISSELECTEDMEASURE() function returns a boolean

upvoted 4 times

✉ **Maazi** 1 year ago

Should be SELECTEDMEASURENAME and SELECTEDMEASURE

upvoted 9 times

✉ **Eltooth** Most Recent 6 months, 1 week ago

SELECTEDMEASURENAME

SELECTEDMEASURE

As per Q#75

upvoted 2 times

✉ **solref** 9 months, 1 week ago

SELECTEDMEASURENAME and SELECTEDMEASURE

\* ISSELECTEDMEASURE requires a list of measure names and in this case it was not provided, and the calculation is evaluating an equal (=) for

specific measure name.

upvoted 5 times

 **Saffar** 11 months, 3 weeks ago

answer is correct, SELECTEDVALUE need a column name as input, you can't use SELECTEDVALUE(), check below

<https://learn.microsoft.com/en-us/dax/selectedvalue-function>

upvoted 4 times

## Question #99

## Topic 1

You discover a poorly performing measure in a Power BI data model.

You need to review the query plan to analyze the amount of time spent in the storage engine and the formula engine.

What should you use?

- A. Tabular Editor
- B. Vertipaq Analyzer
- C. DAX Studio
- D. Performance analyzer in Power BI Desktop

**Correct Answer: D**

*Community vote distribution*



✉️ cherious **Highly Voted** 1 year ago

**Selected Answer: C**

It is 100% Dax Studio. Although Vertipaq Analyzer is part of DAX Studio, Vertipaq Analyzer only shows details about the tables and columns, not the time it took for each engine to execute the query.

upvoted 8 times

✉️ jeroen12345 1 year ago

Yes you are correct.

upvoted 2 times

✉️ salvalcaraz **Most Recent** 1 week, 6 days ago

**Selected Answer: C**

The Query Plan is a DAX Studio feature.

upvoted 1 times

✉️ SamuComqi 4 months, 2 weeks ago

**Selected Answer: C**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- DAX Studio
- upvoted 1 times

✉️ DarioReymago 8 months, 3 weeks ago

**Selected Answer: D**

C & D can be ok, but C show more details than D

upvoted 2 times

✉️ solref 9 months, 1 week ago

**Selected Answer: D**

It is confusing, but it is OK = D

Performance Analyzer can find out how each of your report elements, such as visuals and DAX formulas are performing.

Link: <https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-performance-analyzer>

upvoted 1 times

✉️ stfglv 11 months, 1 week ago

I agree that it may be confusing that the Vertipaq is technically integrated into DAX studio BUT the Server Timings in DAX definitely show the information re. function and storage engine consumption (even visually with blue and yellow if that jogs your memory) whereas the information in Vertipaq analyzer are separated into tabs such as Table Tab, Relationship Tab and so on and do not mention the wanted information.

upvoted 1 times

✉️ stfglv 11 months, 1 week ago

\*formula engine (sorry)

upvoted 1 times

✉️ louisaok 11 months, 4 weeks ago

**Selected Answer: C**

DAX Studio

upvoted 4 times

✉️ jeroen12345 1 year ago

**Selected Answer: B**

Weird question, Vertipaq Analyser is correct, but that is a feature in both DAX studio and Tabular Editor 3. I would pick B, but C and A could also be considered correct.

upvoted 1 times

✉  **jeroen12345** 1 year ago

Changed my mind. Its DAX studio

upvoted 2 times

✉  **Ramiel** 1 year ago

**Selected Answer: C**

Information regarding the FE and the SE can be accessed using Vertipaq Analyzer, which is a feature from DAX Studio.

upvoted 2 times

✉  **MM\_GG** 1 year ago

In DAX Studio this can be seen.. seems wrong answer

upvoted 2 times

## Question #100

## Topic 1

You plan to modify a Power BI dataset.  
You open the Impact analysis panel for the dataset and select Notify contacts.  
Which contacts will be notified when you use the Notify contacts feature?

- A. the Power BI admins
- B. the workspace admins of any workspace that uses the dataset
- C. all the workspace members of any workspace that uses the dataset
- D. any users that accessed a report that uses the dataset within the last 30 days

**Correct Answer: C**

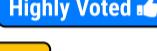
*Community vote distribution*

B (100%)

✉  **jeroen12345**  1 year ago

**Selected Answer: B**

It will be send to the contact list of the workspace. Which by default contains the workspace admins (but can be modified). B upvoted 8 times

✉  **cherious**  1 year ago

**Selected Answer: B**

Assuming that contact list has not modified for the workspaces then the answer is B, because by default the contact list only includes workspace admins.

When you click on Notify Contacts, the window pops up and shows that "An email notification will be sent to all the contacts for all impacted workspaces, including workspaces you don't have access to." So if other users are added in the contact list, then they will also receive email  
upvoted 5 times

✉  **SamuComqi**  4 months, 2 weeks ago

**Selected Answer: B**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- the workspace admins of any workspace that uses the dataset  
upvoted 1 times

✉  **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: B**

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-dataset-impact-analysis#notify-contacts>

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-create-the-new-workspaces#create-a-contact-list>  
upvoted 2 times

✉  **Saffar** 11 months, 3 weeks ago

it's B

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-create-the-new-workspaces#create-a-contact-list>  
upvoted 4 times

## Question #101

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. rollup
- B. cov
- C. explain
- D. describe

**Correct Answer: D**

*Community vote distribution*

D (100%)

Eltooth 6 months, 1 week ago

**Selected Answer: D**

D is correct answer.

upvoted 1 times

DarioReymago 8 months, 3 weeks ago

**Selected Answer: D**

Correct answer is D

upvoted 2 times

per\_ing 11 months, 2 weeks ago

**Selected Answer: D**

Duplicate of 62 and 103. Correct answer is D

upvoted 4 times

## Question #102

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend using OPENROWSET WITH to explicitly define the collation for businessName and surveyName as Latin1\_General\_100\_BIN2\_UTF8.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: A**
*Community vote distribution*

A (61%)

B (39%)

✉ **Qordata** 2 months, 2 weeks ago

**Selected Answer: A**

The comments are very descriptive and suggest answer as A  
upvoted 2 times

✉ **sheilawu** 3 months ago

**Selected Answer: A**

I sitck with AAAAAAA  
upvoted 1 times

✉ **fireofsea** 3 months, 3 weeks ago

**Selected Answer: A**

Make sure that you are explicitly specifying some UTF-8 collation (for example Latin1\_General\_100\_BIN2\_UTF8) for all string columns in WITH clause or set some UTF-8 collation at database level.  
<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-files>  
upvoted 2 times

✉ **fireofsea** 4 months ago

**Selected Answer: A**

<https://techcommunity.microsoft.com/t5/azure-synapse-analytics-blog/always-use-utf-8-collations-to-read-utf-8-text-in-serverless-sql/ba-p/1883633>  
upvoted 1 times

✉ **hoss29** 2 months, 4 weeks ago

But according to that same link, the database has to be dropped beforehand. Last paragraph says " NOTE: If you have existing tables that used default database collation, changing default database collation would not be applied on them. You would need to drop and re-create external tables so they can pickup new default." So i think the answer is NO  
upvoted 1 times

✉ **hoss29** 2 months, 4 weeks ago

please disregard as here we are not changing the database collation. Answer should be YES. From the copilot:  
Reducing I/O Reads

When you query Parquet files in Azure Synapse Analytics, the service can push down certain filter predicates to the storage layer. This means that only the relevant row groups are read from the Parquet files, which can significantly reduce I/O reads. However, this predicate pushdown is only possible if the collation of the column in the Parquet file matches the collation of the column in SQL Server. By explicitly setting the collation to Latin1\_General\_100\_BIN2\_UTF8, you ensure that the collations match, enabling predicate pushdown and reducing I/O reads.

Reducing tempdb Usage

When you query data with a different collation than the server's default collation, SQL Server needs to perform a collation conversion. This

conversion happens in memory and can increase tempdb usage. By setting the collation at the column level to match the data's actual collation, you avoid these conversions and reduce tempdb usage.

upvoted 3 times

 **PrudenceK** 6 months ago

**Selected Answer: B**

Defining the collation for the columns as Latin1\_General\_100\_BIN2\_UTF8 will not directly reduce I/O reads and tempdb usage. Collation determines the sorting and comparison rules for character data and does not have a direct impact on I/O or tempdb usage.

To reduce I/O reads and tempdb usage, you should consider the following approaches:

Implement appropriate indexing on the columns used in the queries to improve query performance and reduce the need for extensive I/O reads. Optimize the query logic by using efficient filters and aggregations to minimize the amount of data read and processed.

Consider partitioning the data based on relevant criteria, such as date or another logical partitioning key, to improve query performance and reduce I/O reads.

Utilize appropriate compression techniques for the Parquet files to reduce their size, leading to reduced I/O reads.

upvoted 1 times

 **sgodd\_0298** 8 months, 1 week ago

**Selected Answer: A**

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-data-storage>

upvoted 2 times

 **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: A**

a is correct

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-files>

upvoted 3 times

 **solref** 9 months, 1 week ago

**Selected Answer: A**

The Latin1\_General\_100\_BIN2\_UTF8 collation has additional performance optimization that works only for parquet and Cosmos DB.

LINK: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-files>

Collations: The default inheritance can be overridden by explicitly stating a different collation for a character-based data type.

upvoted 4 times

 **Fer079** 10 months, 3 weeks ago

**Selected Answer: A**

Data in a Parquet file is organized in row groups. Serverless SQL pool skips row groups based on the specified predicate in the WHERE clause, which reduces IO. The result is increased query performance.

If we want to filter by businessName and/or by survey name then is recommended to use the Latin1\_General\_100\_BIN2\_UTF8 collation  
<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/best-practices-serverless-sql-pool#use-proper-collation-to-utilize-predicate-pushdown-for-character-columns>

upvoted 4 times

 **louisaoak** 11 months, 2 weeks ago

**Selected Answer: B**

B is the correct one.

upvoted 3 times

 **Saffar** 11 months, 3 weeks ago

using "OPENROWSET WITH to explicitly define the collation for businessName and surveyName as Latin1\_General\_100\_BIN2\_UTF8", will allow you to read the string properly, but I think it has nothing to do with decreasing the I/O, so most likely it's NO

upvoted 3 times

 **louisaoak** 11 months, 4 weeks ago

**Selected Answer: B**

No,

Solution: You recommend defining a data source and view for the Parquet files. You recommend updating the query to use the view.

upvoted 4 times

 **Maazi** 1 year ago

**Selected Answer: B**

You don't need to use the OPENROWSET WITH clause when reading Parquet files

Source: <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-files>

upvoted 4 times

 **DarioReymago** 8 months, 3 weeks ago

Sorry Maazi, all that link that you refere say that the correct answer is A

upvoted 3 times

## Question #103

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a Data Frame in a tabular view.

Which method should you invoke on the Data Frame?

- A. sample
- B. describe
- C. freqItems
- D. explain

**Correct Answer: B**

*Community vote distribution*

B (100%)

✉️  **salvalcaraz** 1 week, 6 days ago

**Selected Answer: B**

duplicated question

upvoted 1 times

✉️  **Eltooth** 6 months, 1 week ago

**Selected Answer: B**

B is correct answer.

upvoted 1 times

✉️  **per\_ing** 11 months, 2 weeks ago

**Selected Answer: B**

Duplicate of 62 and 101. Correct answer is B

upvoted 2 times

## Question #104

## Topic 1

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode. A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline. An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Request the authors of the deployment pipeline datasets to reduce the number of datasets republished during development.
- B. In the dataset, delete the fact table.
- C. Configure the dataset to use a composite model that has a DirectQuery connection to the fact table.
- D. From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.

**Correct Answer: C**

*Community vote distribution*

C (100%)

✉️ **Qordata** 2 months, 2 weeks ago  
sqm question as Q20 and Q94 but different options, with these set of options i would go with option C as the question wants us to reduce the queries during refresh time so changing to composite models seems most relevant solution  
upvoted 1 times

✉️ **ajaysharma2061** 9 months, 1 week ago  
Option C: Direct Query

Given the scenario, the best solution to reduce the size of queries sent to the database when dataset changes are published to development, test, or production is to configure the dataset to use a composite model that has a DirectQuery connection to the fact table.

Using a DirectQuery connection allows you to keep the data in the data source and query it directly when needed, rather than importing the entire dataset into Power BI. This can significantly reduce the amount of data that needs to be transferred between the data source and Power BI, which in turn can reduce the number of queries sent to the data source.

upvoted 1 times

✉️ **solref** 9 months, 1 week ago

**Selected Answer: C**

ITS THE SAME THAN 94

upvoted 1 times

✉️ **Pib2** 6 months, 1 week ago  
different answers  
upvoted 1 times

✉️ **per\_ing** 11 months, 2 weeks ago  
Duplicate of question 94  
upvoted 3 times

## Question #105

## Topic 1

## HOTSPOT -

You are building a Power BI dataset that contains a table named Calendar. Calendar contains the following calculated column.

```
pfFlag = IF('Calendar'[Date] < TODAY(), "Past", "Future")
```

You need to create a measure that will perform a fiscal prior year-to-date calculation that meets the following requirements:

Returns the fiscal prior year-to-date value for [Sales Amount]

Uses a fiscal year end of June 30

Produces no result for dates in the future

How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area:

```
PYTD =
CALCULATE (
    [Sales Amount],
    CALCULATETABLE
    CROSSJOIN
    SUMMARIZECOLUMNS
    UNION
    ( DATEYTD ( 'Calendar'[Date], "6/30/2022" ) ),
    DATEADD
    FIRSTDATE
    PARALLELPERIOD
    SAMEPERIODLASTYEAR
)
'Calendar'[pfFlag] =
    "Future"
    NOW()
    "Past"
    TODAY()
```

## Answer Area:

```
PYTD =
CALCULATE (
    [Sales Amount],
    CALCULATETABLE
    CROSSJOIN
    SUMMARIZECOLUMNS
    UNION
    ( DATEYTD ( 'Calendar'[Date], "6/30/2022" ) ),
    DATEADD
    FIRSTDATE
    PARALLELPERIOD
    SAMEPERIODLASTYEAR
)
'Calendar'[pfFlag] =
    "Future"
    NOW()
    "Past"
    TODAY()
```

## Correct Answer:

 MM\_GG Highly Voted 1 year ago

pfFlag would either be Future or Past, so seems redundant to filter on TODAY(), imo should be "Past"  
upvoted 14 times

 stfglv 11 months, 1 week ago

My thoughts exactly. Or, looking from another angle, why would the pfFlag be mentioned and explained at all if one of its outcome values (Future/Past) is not part of the solution?  
upvoted 2 times

 cookiemonster42 Highly Voted 11 months, 1 week ago

pfFlag can only be Past or Future, in the context of the question, it's Past  
upvoted 5 times

 MaryemSB Most Recent 2 weeks, 4 days ago

calculatetable  
sameperiodlastyear  
past  
upvoted 1 times

 Eltooth 6 months ago

Calculate  
Sameperiod

Past

upvoted 2 times

✉ **DarioReymago** 8 months, 3 weeks ago

oky except last must be "past"

upvoted 2 times

## Question #106

Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Power BI Desktop, you create a hierarchy.

Does this meet the goal?

A. Yes

B. No

### Correct Answer: B

*Community vote distribution*

B (100%)

✉ **louisaok** 11 months, 4 weeks ago

**Selected Answer: B**

No,

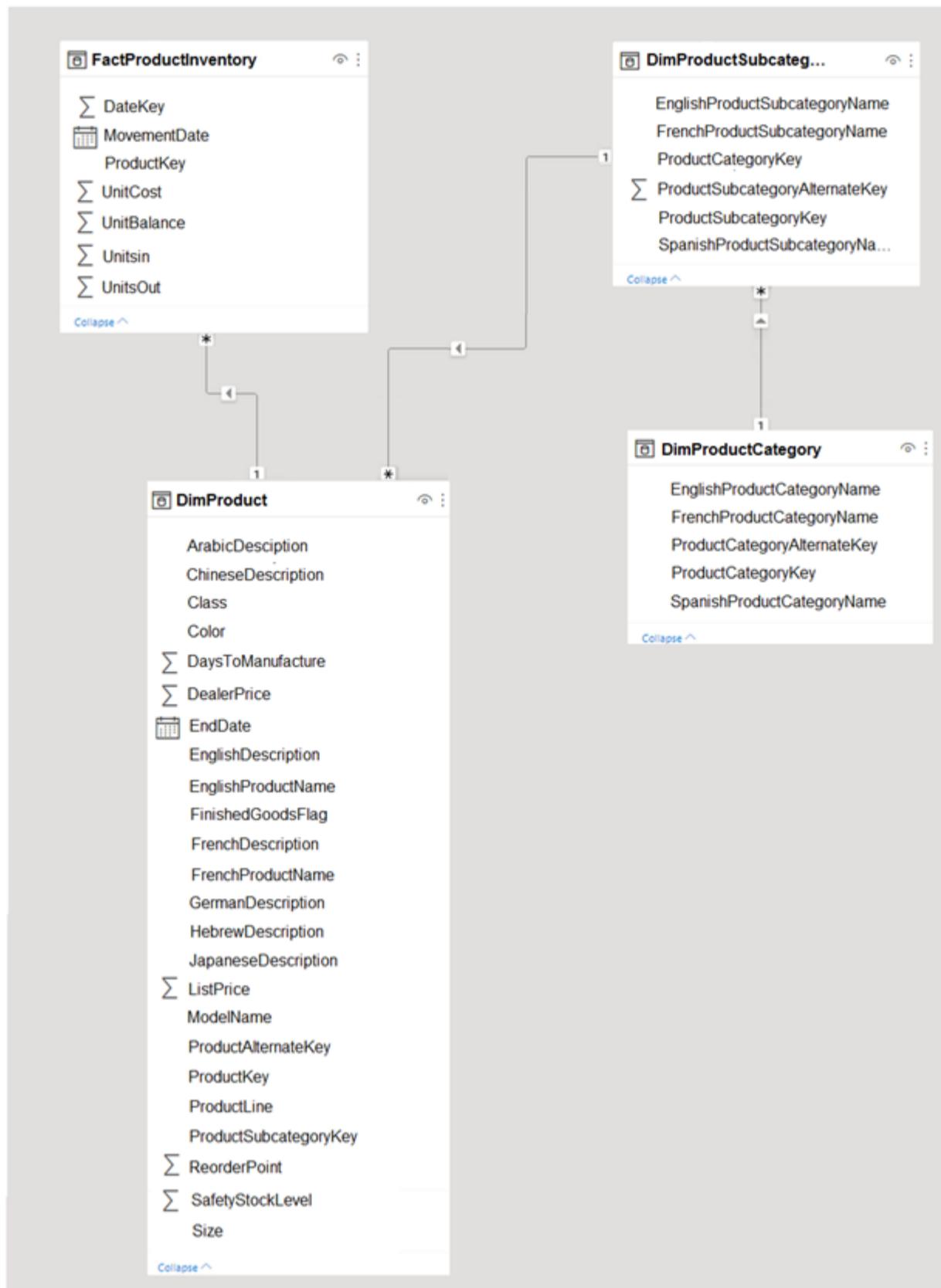
It should be "From Tabular Editor, you create a calculation group."

upvoted 4 times

## Question #107

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend normalizing the data model.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: B**

*Community vote distribution*

B (71%)

A (29%)

louisaok **Highly Voted** 11 months, 4 weeks ago

**Selected Answer: B**

No.

It should be "You recommend denormalizing the data model"

upvoted 5 times

✉ **sgodd\_0298** 8 months, 1 week ago

Normalizing increases performance, denormalizing data can cause data redundancy.  
upvoted 1 times

✉ **stfglv** 11 months, 2 weeks ago

exactly, because the shown model is already normalized  
upvoted 5 times

✉ **Qordata** **Most Recent** 2 months, 2 weeks ago

**Selected Answer: A**

Definitely the answer should yes as per the best practices which suggest using star schema (normalized schema) then the denormalized single table  
<https://learn.microsoft.com/en-us/power-bi/guidance/star-schema>

Advantage of using star schema slim model over denormalized table fat model is very well captured in this article  
<https://www.sqlbi.com/articles/power-bi-star-schema-or-single-table/>

upvoted 1 times

✉ **sgodd\_0298** 8 months, 1 week ago

**Selected Answer: A**

Answer is Yes. Normalizing increases performance, denormalizing data can cause data redundancy.  
upvoted 1 times

✉ **sgodd\_0298** 8 months, 1 week ago

Answer is Yes. Normalizing increases performance, denormalizing data can cause data redundancy.  
upvoted 1 times

## Question #108

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. freqItems
- B. corr
- C. summary
- D. rollup

**Correct Answer: B**

*Community vote distribution*

C (100%)

👤 **cherious** Highly Voted 1 year ago

**Selected Answer: C**

Correct answer is Summary. Corr shows correlation between columns and it has nothing to do with data distribution statistics.

Source: <https://spark.apache.org/docs/3.1.2/api/python/reference/api/pyspark.sql.DataFrame.summary.html>

upvoted 9 times

👤 **per\_ing** Highly Voted 11 months, 2 weeks ago

Duplicate of 62, 101 and 103 only with other answer options. I believe the correct is still "describe" even though that is not an option here  
upvoted 6 times

👤 **Deloro** Most Recent 3 months, 1 week ago

question returns often with different answers  
however I believe it should always be summary  
.describe() function takes cols:String\*(columns in df) as optional args.

.summary() function takes statistics:String\*(count,mean,stddev..etc) as optional args.

upvoted 1 times

👤 **solref** 9 months ago

**Selected Answer: C**

DataFrame.summary(\*statistics)[source]  
<https://spark.apache.org/docs/3.1.2/api/python/reference/api/pyspark.sql.DataFrame.summary.html>

It is the same question than 62 , 101 and 103. But in those cases the answer was "describe" and it's the same if you are looking for dataframe statistics detail

df.describe(['age']).show()  
<https://spark.apache.org/docs/3.1.1/api/python/reference/api/pyspark.sql.DataFrame.describe.html>  
upvoted 1 times

👤 **ThariCD** 10 months, 3 weeks ago

**Selected Answer: C**

It should definitely be summary or describe, either works. Summary shows count, mean, stddev, min, max and quartiles:  
<https://spark.apache.org/docs/3.1.2/api/python/reference/api/pyspark.sql.DataFrame.summary.html>  
Describe shows count, mean, stddev, min and max:  
<https://spark.apache.org/docs/3.1.2/api/python/reference/api/pyspark.sql.DataFrame.describe.html#pyspark.sql.DataFrame.describe>  
The differences seem to be that summary is newer and includes the percentiles at 25%, 50% and 75%.

upvoted 1 times

👤 **JuanData** 11 months ago

**Selected Answer: C**

summary  
upvoted 1 times

👤 **AshwinN1992** 1 year ago

Please confirm  
upvoted 1 times

## Question #109

## Topic 1

You are using DAX Studio to analyze a slow-running report query.

You need to identify inefficient join operations in the query.

What should you review?

- A. the query statistics
- B. the query plan
- C. the query history

**Correct Answer: B**

*Community vote distribution*



✉️ **PrudenceK** 6 months ago

**Selected Answer: B**

Correct

upvoted 1 times

✉️ **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: B**

I think is B

upvoted 1 times

✉️ **Az301301X** 11 months, 1 week ago

**Selected Answer: B**

B, Query Plan.

upvoted 2 times

✉️ **Saffar** 11 months, 3 weeks ago

I think the answer B is correct, there is nothing called Query Statistics in DAX Studio

upvoted 3 times

✉️ **moreinva43** 11 months, 3 weeks ago

A.) it doesn't say that the data source for the Power BI Report is a SQL database and B.) the website you referenced is about finding slow running queries on a SQL Database and C.) that tool has nothing to do with Dax Studios. And in trying to find long running DQX queries, it is looking at the query plan <https://www.sqlbi.com/tv/query-performance-tuning-in-dax-studio/>

upvoted 3 times

✉️ **louisaoak** 11 months, 4 weeks ago

**Selected Answer: A**

we need to enable the Query Statistics for this session

<https://www.sqlshack.com/how-to-identify-slow-running-queries-in-sql-server/>

upvoted 1 times

✉️ **cookiemonster42** 11 months, 1 week ago

Isn't it for SQL server, not DAX Studio?

upvoted 1 times

✉️ **DarioReymago** 8 months, 3 weeks ago

thats true that link is for sql

upvoted 1 times

## Question #110

## Topic 1

You have a Power Bi dataset that contains the following measure.

```
YTD Year-over-Year Var =  
DIVIDE (  
    ([Sales Amount]  
        - CALCULATE (  
            [Sales],  
            SAMEPERIODLASTYEAR ('Calendar'[Date]),  
            'Calendar'[Flag] = "YTD"  
        )  
    ),  
    CALCULATE (  
        [Sales],  
        SAMEPERIODLASTYEAR ('Calendar'[Date]),  
        'Calendar'[Flag] = "YTD"  
    ),  
    BLANK()  
)
```

You need to improve the performance of the measure without affecting the logic or the results.

What should you do?

- A. Create a variable and replace the values for [Sales Amount].
- B. Replace both CALCULATE functions by using a variable that contains the CALCULATE function.
- C. Remove the alternative result of BLANK() from the DIVIDE function.
- D. Remove 'Calendar'[Flag] = "YTD" from the code.

**Correct Answer: B**

*Community vote distribution*

B (100%)

Eltooth 6 months, 1 week ago

**Selected Answer: B**

B is correct answer.

upvoted 2 times

DarioReymago 8 months, 3 weeks ago

**Selected Answer: B**

B is correct

upvoted 2 times

solref 9 months, 1 week ago

**Selected Answer: B**

It is OK!

upvoted 2 times

louisaok 11 months, 2 weeks ago

**Selected Answer: B**

Yes, B is correct. use a function to replace the repeated query

upvoted 4 times

## Question #111

## Topic 1

You are optimizing a dataflow in a Power BI Premium capacity. The dataflow performs multiple joins.

You need to reduce the load time of the dataflow.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Execute foldable operations before non-foldable operations.
- B. Place the ingestion operations and transformation operations in a single dataflow.
- C. Execute non-foldable operations before foldable operations.
- D. Place the ingestion operations and transformation operations in separate dataflows.
- E. Reduce the memory assigned to the dataflows.

**Correct Answer:** AD

*Community vote distribution*

AD (100%)

✉️  **PrudenceK** 6 months ago

**Selected Answer: AD**

To reduce the load time of a dataflow in Power BI Premium, you should consider the following actions:

A. Execute foldable operations before non-foldable operations: Foldable operations can be pushed down to the data source and executed there, reducing the amount of data transferred to Power BI. By executing foldable operations early in the dataflow, you can minimize the data transfer and improve performance.

D. Place the ingestion operations and transformation operations in separate dataflows: Separating ingestion operations (such as loading data from a source) and transformation operations (such as data cleansing or joining) into separate dataflows can help optimize the load time. In this way, the ingestion operations can be executed less frequently, while the transformation operations can be performed on an as-needed basis, reducing the overall load time.

These actions aim to optimize the dataflow's performance by leveraging foldable operations and optimizing the workflow structure.

upvoted 2 times

✉️  **louisao** 11 months, 2 weeks ago

**Selected Answer: AD**

For A:

\*Query folding is the mechanism to push Power Query transformations back to the source to reduce the load of Power Query.... The query is much more complicated, as it has to merge (Join) the source tables to form the result. But the database engine is optimised for doing such stuff and will perform this task much better than Power Query.

<https://towardsdatascience.com/exploring-query-folding-in-power-query-8288fb3c9c2f>

upvoted 4 times

✉️  **cherious** 1 year ago

**Selected Answer: AD**

The answer is correct. You should split the ETL stage into two separate dataflows.

Source: <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-premium-features?tabs=gen2#using-the-enhanced-compute-engine>

upvoted 3 times

✉️  **AshwinN1992** 1 year ago

Please confirm

upvoted 2 times

## Question #112

## Topic 1

You need to save Power BI dataflows in an Azure Storage account.

Which two prerequisites are required to support the configuration? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. The connection must be created by a user that is assigned the Storage Blob Data Owner role.
- B. Dataflows must exist already for any directly connected Power BI workspaces.
- C. The storage account must be protected by using an Azure Firewall.
- D. The storage account must be created in a separate Azure region from the Power BI tenant and workspaces.
- E. The storage account must have hierarchical namespace enabled.

**Correct Answer: AE**

*Community vote distribution*

AE (100%)

✉  **Maazi**  1 year ago

**Selected Answer: AE**

Source: <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>  
upvoted 6 times

✉  **solref** 9 months, 1 week ago

You are so right!

Prerequisites

To bring your own ADLS Gen 2 account, you must have Owner permission at the storage account layer.

The storage account must be created with the Hierarchical Namespace (HNS) enabled.

upvoted 2 times

✉  **louisaoak**  11 months, 4 weeks ago

**Selected Answer: AE**

AE are correct

\*The user must have Storage Blob Data Owner role, Storage Blob Data Reader role, and an Owner role at the storage account level (scope should be this resource and not inherited). Any applied role changes may take a few minutes to sync, and must sync before the following steps can be completed in the Power BI service.

\*The storage account must be created with the Hierarchical Namespace (HNS) enabled.

upvoted 5 times

✉  **Eltooth**  6 months, 1 week ago

**Selected Answer: AE**

A and E are correct answers.

Logical!

upvoted 1 times

✉  **DarioReymago** 8 months, 3 weeks ago

**Selected Answer: AE**

A & E are correct

upvoted 3 times

## Question #113

## Topic 1

## HOTSPOT -

You have the Power BI workspaces shown in the following exhibit.

## Workspaces

View personal and group workspaces that exist in your organization. To change users' ability to create workspaces, see [Tenant settings](#).

Name	Description	Type	State	Capacity name	Capacity SKU Tier	Workspace upg...
Web Analytics		Workspace	Active			
Infrastructure Svcs		Workspace	Active	Premium Per User - Re... PP3		
Sales Orders		Workspace	Active	pbie01	A1	
PBI Capacity Metrics		Workspace	Orphaned			
PersonalWorkspace		Personal Group	Active			

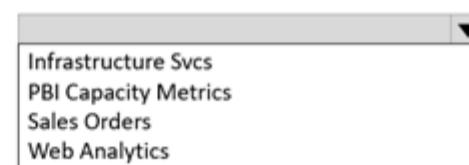
Items per page: 10 1 - 7 of 7 < > >>

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

## Answer Area

The [answer choice] workspace will allow users outside the organization to view private reports from a custom application without a Power BI license.

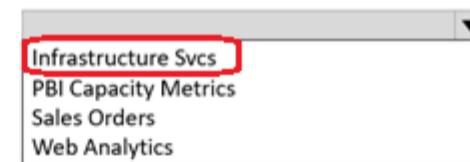


A user must be assigned the [answer choice] role to change the state of the PBI Capacity Metrics workspace to Active.



## Answer Area

The [answer choice] workspace will allow users outside the organization to view private reports from a custom application without a Power BI license.



## Correct Answer:

A user must be assigned the [answer choice] role to change the state of the PBI Capacity Metrics workspace to Active.



✉️ 🚩 cookiemonster42 Highly Voted 11 months, 1 week ago

why Infrastructure? It's ppu, you should choose embedded space with A tier, so Sales is the answer. Correct me if I'm wrong.  
upvoted 8 times

✉️ 🚩 solref 9 months, 1 week ago

Power BI Embedded is an Azure offer that includes "A SKUs", this allow developers who want to embed visuals into their applications. The embed for customers solution allow customers to be external users, and they don't need to sign in using Power BI credentials to view the embedded content.  
1)Sales Orders  
2)Admin  
upvoted 6 times

✉️ 🚩 Fer079 10 months, 3 weeks ago

I agree with you, with Power BI embedded the customers don't need to sign in using Power BI credentials to view the embedded content (so they don't need a Power BI license):  
<https://learn.microsoft.com/en-us/power-bi/developer/embedded/embedded-analytics-power-bi#embed-for-your-customers>

So for me, the right answers are:

Sales Orders

Admin

upvoted 5 times

 **elimey** Most Recent 2 months, 3 weeks ago

Sale Orders  
Admin  
upvoted 1 times

 **Eltooth** 6 months, 1 week ago

Sales Orders  
Admin  
upvoted 1 times

 **louisak** 11 months, 4 weeks ago

Admin: An orphaned workspace is one that does not have an admin assigned. It's easy to Recover an orphan from this screen. Simply select the workspace and click Recover, then add yourself or another user as an admin.

<https://dataveld.com/2019/01/31/what-is-an-orphaned-workspace-in-power-bi/>

upvoted 3 times

## Question #114

Topic 1

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use Import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Enable the large dataset storage format for workspace.
- B. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.
- C. Request the authors of the deployment pipeline datasets to reduce the number of datasets republished during development.
- D. Turn off auto refresh when publishing the dataset changes to the Power BI service.

### Correct Answer: B

Community vote distribution

B (100%)

 **Deloro** 3 months, 1 week ago

Selected Answer: B

answer d won't reduce the size of the dataset, B will

upvoted 1 times

 **solref** 9 months ago

Option D, creating a dataset parameter to reduce the fact table row count in the development and test pipelines, is the recommended solution for this scenario. By creating a dataset parameter, the fact table row count can be reduced, and only the required data can be refreshed during the dataset refresh. This approach can significantly reduce the number of queries sent to the database and improve performance. Once the changes are published to the production pipeline, the dataset parameter can be removed to refresh the entire fact table.

Chat GPT

upvoted 1 times

 **per\_ing** 11 months, 2 weeks ago

Duplicate of question 20

upvoted 2 times

## Question #115

## Topic 1

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

- One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.
- When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Enable the large dataset storage format for workspace.
- B. In the dataset, delete the fact table.
- C. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.
- D. From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.

**Correct Answer: C**

*Community vote distribution*

 C (100%)

✉  **Deloro** 3 months, 1 week ago

**Selected Answer: C**

see comment below

upvoted 1 times

✉  **Deloro** 3 months, 2 weeks ago

the question is, you need to reduce the size when they are sent > a parameter reduces the size, but can be disabled online so the pbix is published faster

upvoted 1 times

✉  **konitoki** 5 months, 2 weeks ago

C seems to be best available option, however we should have full data in both production and test env so I wouldn't pick C having something better

upvoted 1 times

## Question #116

## Topic 1

You have a Power BI workspace named Workspace1 that contains five dataflows.

You need to configure Workspace1 to store the dataflows in an Azure Data Lake Storage Gen2 account.

What should you do first?

- A. Change the Data source settings in the dataflow queries.
- B. Disable load for all dataflow queries.
- C. Delete the dataflow queries.

**Correct Answer: A**

*Community vote distribution*

C (75%)

A (25%)

✉️ **TheSwedishGuy** 2 months ago

ChatGPT is adamant it's B.

upvoted 1 times

✉️ **fireofsea** 4 months ago

**Selected Answer: A**

same question to N18

upvoted 1 times

✉️ **ExamPage** 4 months, 3 weeks ago

**Selected Answer: C**

The question says to configure the Workspace1....

Answer is C.

Finally, you can connect to any ADLS Gen 2 from the Admin portal, but if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting.

<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 3 times

✉️ **acsoma** 5 months, 1 week ago

In Q18 we have the same situation. Q18 answers are below from which option A was selected

>> A. From the Power BI Admin portal, enable tenant-level storage.

B. Disable load for all dataflow queries.

C. Delete the dataflow queries.

D. Change the Data source settings in the dataflow queries.

upvoted 4 times

## Question #117

## Topic 1

You are using an Azure Synapse Analytics serverless SQL pool to query network traffic logs in the Apache Parquet format.

A sample of the data is shown in the following table.

source		destination	
name	ip	name	ip
Network01	192.168.0.1	Internet	0.0.0.0

You need to create a Transact-SQL query that will return the source IP address.

Which function should you use in the select statement to retrieve the source IP address?

- A. JSON\_VALUE
- B. CONVERT
- C. FIRST\_VALUE
- D. FOR\_JSON

**Correct Answer: A**

*Community vote distribution*

A (100%)

 **Anchov** 2 months, 3 weeks ago

**Selected Answer: A**

Agree with source supplied by Martin\_Nbg  
upvoted 1 times

 **KBelh** 3 months, 1 week ago

none of the answers is correct.  
It should be Openrowset.  
upvoted 1 times

 **Martin\_Nbg** 5 months, 3 weeks ago

**Selected Answer: A**

Correct, see <https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-parquet-nested-types>  
upvoted 3 times

## Question #118

## Topic 1

You have a Power BI report that contains a bar chart. The bar chart displays sales by country.

You need to ensure that a summary of the data shown on the bar chart is accessible by using a screen reader.

What should you configure on the bar chart?

- A. conditional formatting
- B. the layer order
- C. alt text
- D. the tab order

**Correct Answer:** C

*Community vote distribution*

 C (100%)

✉️  **Deloro** 3 months, 2 weeks ago

**Selected Answer: C**

confirmed C > open power bi, create bar chart add data and go to the alt text setting, it literally states that this will only be shown by screen readers

upvoted 1 times

✉️  **Kaartick** 3 months, 2 weeks ago

**Selected Answer: C**

Alt text is the right answer

upvoted 1 times

## Question #119

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. explain
- B. describe
- C. corr
- D. cov

**Correct Answer: B**

*Community vote distribution*

 B (100%)

✉️  **Deloro** 3 months, 1 week ago

.describe() function takes cols:String\*(columns in df) as optional args.  
.summary() function takes statistics:String\*(count,mean,stddev..etc) as optional args.  
upvoted 1 times

✉️  **Deloro** 3 months, 2 weeks ago

**Selected Answer: B**

DataFrame.describe(percentiles=None, include=None, exclude=None)[source]  
Generate descriptive statistics.  
> describe

corr > shows correlation between 2 series  
cov > compute pairwise covariance  
explain >  
upvoted 1 times

✉️  **emino** 5 months, 1 week ago

**Selected Answer: B**  
duplicate question 103  
upvoted 2 times

## Question #120

## Topic 1

You have an Azure Synapse Analytics dedicated SQL pool and a Microsoft Purview account.

The Microsoft Purview account has been granted sufficient permissions to the dedicated SQL pool.

You need to ensure that the SQL pool is scanned by Microsoft Purview.

What should you do first?

- A. Create a data policy.
- B. Search the data catalog.
- C. Register a data source.
- D. Create a data share connection.

**Correct Answer: C**

*Community vote distribution*

C (100%)

✉️  **Deloro** 3 months, 2 weeks ago

**Selected Answer: C**

After data sources are registered in your Microsoft Purview account, the next step is to scan the data sources. The scanning process establishes a connection to the data source and captures technical metadata like names, file size, columns, and so on.

<https://learn.microsoft.com/en-us/purview/concept-scans-and-ingestion>  
upvoted 1 times

✉️  **emino** 5 months, 1 week ago

**Selected Answer: C**

C is correct, duplicate with q19  
upvoted 2 times

## Question #121

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. freqItems
- B. sample
- C. corr
- D. describe

**Correct Answer: D**

## Question #122

## Topic 1

DRAG DROP

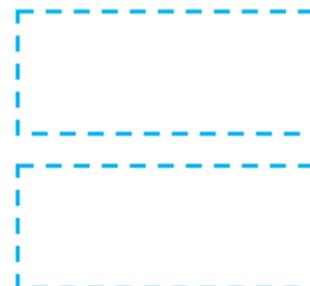
You have a dataset that is populated from a list of business categories in a source database. The list of categories changes over time.

You use Power BI Report Builder to create a paginated report. The report has a report parameter named BusinessCategory.

You need to modify BusinessCategory to ensure that when the report opens, a drop-down list displays all the business categories, and all the business categories are selected.

How should you configure BusinessCategory? To answer, drag the appropriate options to the correct settings. Each option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Options****Settings****List****Available Values****None****Default Values****Query****Settings****Correct Answer:****Available Values****List****Default Values****Query**

**Martin\_Nbg** **Highly Voted** 5 months, 3 weeks ago

Solution should be Query and Query. Requirements say, available categories change over time and all currently available categories should be default. Thus a query is needed for both. See <https://learn.microsoft.com/en-us/sql/reporting-services/tutorial-add-a-parameter-to-your-report-report-builder?view=sql-server-ver16#AvailableValues>

upvoted 6 times

**hieuleo** **Most Recent** 1 month ago

Could someone please help me to add some comment on question #121 and other questions without any comment so that I can access them? I can't afford Contribution Access.

upvoted 1 times

**Deloro** 3 months, 1 week ago

i would also use 2 times query

upvoted 1 times

**fireofsea** 3 months, 1 week ago

Can same answer be drop twice ?

upvoted 1 times

**Kaartick** 3 months, 2 weeks ago

It should be query and query for both: -

<https://www.youtube.com/watch?v=XA5twJ2wLd0>

upvoted 4 times

## Question #123

## Topic 1

You have a Power BI tenant.

You need to ensure that all reports use a consistent set of colors and fonts. The solution must ensure that the colors and fonts can be applied to existing reports.

What should you create?

- A. a report theme file
- B. a PBIX file
- C. a Power BI template

**Correct Answer: A**

✉️  **MaryemSB** 6 days, 3 hours ago

**Selected Answer: A**

correct answer

upvoted 1 times

✉️  **Deloro** 3 months, 2 weeks ago

**Selected Answer: A**

theme!

upvoted 2 times

✉️  **konitoki** 5 months, 2 weeks ago

A, because of req to apply theme to existing reports

upvoted 1 times

## Question #124

## Topic 1

You need to use Power BI to ingest data from an API. The API requires that an API key be passed in the headers of the request.

Which type of authentication should you use?

- A. organizational account
- B. Basic
- C. Web API
- D. Anonymous

**Correct Answer: B**

✉  **hoss29** 2 months, 3 weeks ago

**Selected Answer: C**

I think it should be Web API because of the API key. Check this out: <https://learn.microsoft.com/en-us/power-query/connector-authentication#select-an-authentication-method>

upvoted 4 times

✉  **hoss29** 2 months, 3 weeks ago

this is a better link <https://learn.microsoft.com/en-us/power-query/connectors/web/web>

upvoted 2 times

✉  **batman1197** 3 months, 1 week ago

**Selected Answer: B**

Basic authentication allows you to pass a username (in this case, the API key) and an optional password in the headers of the request, which is a common method for APIs that require API key-based authentication whereas Anonymous option is used when the API does not require any form of authentication, meaning you don't need to pass an API key in the headers and the question requires API key passed in the headers of the request.

upvoted 2 times

✉  **batman1197** 3 months, 1 week ago

Also check this, <https://community.fabric.microsoft.com/t5/Desktop/quot-A-web-API-Key-can-only-be-specified-when-a-web-API-key-name/td-p/2739227>

upvoted 1 times

✉  **fireofsea** 4 months ago

**Selected Answer: B**

change mind, answer is B

The specified API key typically falls under "Basic" authentication rather than anonymous authentication. Basic authentication involves passing a username and password or API key in the request to verify the source of the request. This method is usually used for authentication that requires a certain level of security but does not involve complex OAuth2.0 or Azure AD integration scenarios.

upvoted 1 times

✉  **Martin\_Nbg** 5 months, 3 weeks ago

**Selected Answer: D**

Correct answer is Anonymous, see <https://community.fabric.microsoft.com/t5/Desktop/A-web-API-key-can-only-be-specified-when-a-web-API-key-name-is/m-p/547468/highlight/true#M257397>

upvoted 3 times

✉  **fireofsea** 4 months ago

source

<https://www.dalesandro.net/accessing-rest-apis-with-basic-auth-and-api-key-in-power-query/>

upvoted 1 times

✉  **Deloro** 3 months, 2 weeks ago

confirm! D (anonymous) not basic

upvoted 1 times

## Question #125

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

From Power Query Editor, you profile the data shown in the following exhibit.

	A IoT GUID	B IoT DateTime	C IoT ID
	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>
1	48196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:25	100001000
2	49196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:26	100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You change the IoT DateTime column to the date data type.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

 **Deloro** 3 months, 2 weeks ago  
guess not, since you need 'hour'  
upvoted 2 times

## Question #126

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

From Power Query Editor, you profile the data shown in the following exhibit.

	A IoT GUID	B IoT DateTime	C IoT ID
	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>	<ul style="list-style-type: none"> <li>● Valid 100%</li> <li>● Error 0%</li> <li>● Empty 0%</li> </ul>
1	48196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:25	100001000
2	49196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:26	100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You remove the IoT ID column and retain the IoT GUID column.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: A**

✉ **MaryemSB** 2 weeks, 3 days ago

A is correct.  
agree with Deloro : even though removing GUID is a better solution, removing ID also improves performance  
upvoted 1 times

✉ **Deloro** 3 months ago

**Selected Answer: A**  
check below why  
upvoted 1 times

✉ **KBelh** 3 months, 1 week ago

It is better to keep ID (whole number) than GUID.  
So correct answer is No  
upvoted 2 times

✉ **Deloro** 3 months, 2 weeks ago

guess not, rather remove GUID's than ID's since its better to use surrogates  
upvoted 2 times

✉ **Deloro** 3 months ago

actually, i would say yes since you're removing data so it will be improving however i would remove the guid  
upvoted 2 times

## Question #127

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

From Power Query Editor, you profile the data shown in the following exhibit.

	A IoT GUID	B IoT DateTime	C IoT ID
	Valid Error Empty	Valid Error Empty	Valid Error Empty
1	48196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:25	100001000
2	49196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:26	100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You split the IoT DateTime column into a column named Date and a column named Time.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

✉ **MaryemSB** 2 weeks, 3 days ago

answer : A

upvoted 1 times

✉ **MaryemSB** 2 weeks, 3 days ago

splitting datetime will remove redundant data and keeps dataset size down

upvoted 1 times

✉ **prusik369** 3 months ago

Yes, for sure . It is in best practises

upvoted 2 times

✉ **SamuComqi** 4 months, 2 weeks ago

**Selected Answer: A**

I took the exam a few days ago (14/8/2023) and I passed the exam with a score of 915.

My answer was:

- Yes

upvoted 3 times

✉ **sg1890** 5 months ago

The correct answer is : A

Check this link : <https://powerbi.microsoft.com/fr-be/blog/best-practice-rules-to-improve-your-models-performance/>

upvoted 2 times

✉ **segma** 5 months, 2 weeks ago

**Selected Answer: A**

Split Date and time do improve dataset performance  
upvoted 1 times

**PrudenceK** 6 months ago

**Selected Answer: B**

No, this does not meet the goal. Splitting the IoT DateTime column into separate Date and Time columns will not improve dataset performance or enable analysis by the hour and day of the year. Splitting the column only separates the date and time components, but it does not provide the necessary functionality to analyze events by the hour and day of the year.

upvoted 1 times

## Question #128

## Topic 1

## HOTSPOT

You have a Power BI tenant that uses a primary domain named fabrikam.com and contains a Power BI Premium workspace named Workspace1. Workspace1 contains a dataset named DS1. DS1 is an imported model that has one data source.

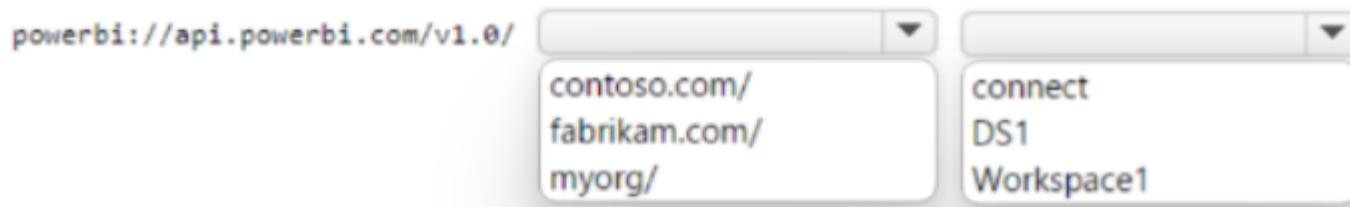
You have a guest user named user1@contoso.com that is assigned the Contributor role for Workspace1.

You need to ensure that User1 can connect to the XMLA endpoint of DS1.

How should you complete the URL of the XMLA connection? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area



**Correct Answer:**

✉️ **MaryemSB** 2 weeks, 3 days ago

Contoso and workspace1  
"B2B users must specify their organization UPN in tenant name".  
in this question, Contoso is the B2B tenant.

check the link  
<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools#connecting-to-a-premium-workspace>  
upvoted 1 times

✉️ **TheSwedishGuy** 2 months ago

ChatGPT says Fabrikam.com and DS1  
upvoted 1 times

✉️ **Deloro** 3 months, 2 weeks ago

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>  
> would go for contoso and workspace  
> it states that myorg can also be used (in the same tenant)  
> fabrikam would be B2B

Workspaces assigned to a capacity have a connection string in URL format. For example:

powerbi://api.powerbi.com/v1.0/[tenant name]/[workspace name].

Applications connecting to the workspace use the URL as if it were an Analysis Services server name. For example:

powerbi://api.powerbi.com/v1.0/contoso.com/Sales Workspace.

Users with UPNs in the same tenant (not B2B) can replace the tenant name with myorg. For example:

powerbi://api.powerbi.com/v1.0/myorg/Sales Workspace.

B2B users must specify their organization UPN in tenant name. For example:

powerbi://api.powerbi.com/v1.0/fabrikam.com/Sales Workspace.

upvoted 2 times

✉️ **Deloro** 3 months, 2 weeks ago

sorry, fabrikam and workspace since you have a guest user!  
upvoted 4 times

✉️ **fireofsea** 3 months, 4 weeks ago

agreee with DS1  
[powerbi://api.powerbi.com/v1.0/fabrikam.com/DS1](https://api.powerbi.com/v1.0/fabrikam.com/DS1)  
upvoted 2 times

✉️ **Deloro** 3 months, 2 weeks ago

workspace see link <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>  
upvoted 2 times

✉️ **fireofsea** 3 months, 4 weeks ago

#Edit  
[powerbi://api.powerbi.com/v1.0/myorg/Workspace1/DS1](https://api.powerbi.com/v1.0/myorg/Workspace1/DS1)

#URL  
<https://learn.microsoft.com/zh-cn/power-bi/enterprise/service-premium-connect-tools>  
upvoted 2 times

✉️ **Maddy723** 4 months, 4 weeks ago

"B2B users must specify their organization UPN in tenant name"  
Answer would be contoso.com and Workspace1  
upvoted 2 times

✉️ **dthien** 5 months ago

Answer is frabrikam.com  
, workspace1 for guest user ./myorg only work for local users (same tenant)

<https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>  
upvoted 3 times

✉️ **PrudenceK** 6 months ago

To complete the URL of the XMLA connection for User1 to connect to the XMLA endpoint of DS1 in Workspace1, you should use the following format:

[powerbi://api.powerbi.com/v1.0/myorg/Workspace1/DS1](https://api.powerbi.com/v1.0/myorg/Workspace1/DS1)  
upvoted 2 times

## Question #129

## Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. describe
- B. corr
- C. freqItems
- D. explain

**Correct Answer: A**

## Question #130

## Topic 1

You have a Power BI report hosted on the Power BI service. The report displays expenses by department for department managers and contains a line chart that shows expenses by month.

You need to ensure that users can choose between viewing the report as a line chart or a column chart. The solution must minimize development and maintenance effort.

What should you do?

- A. Create a mobile report that contains a column chart.
- B. Add a column chart a bookmark, and a button for users to choose a visual.
- C. Enable report readers to personalize visuals.
- D. Create a separate report page for users to view a column chart.

**Correct Answer:** C

 **PrudenceK** 6 months ago

**Selected Answer: C**

Enable report readers to personalize visuals allows users to customize the visuals based on their preferences. They can choose to switch between a line chart and a column chart without requiring additional development or maintenance effort from the report creator.

upvoted 2 times

## Question #131

## Topic 1

You have a PostgreSQL database named db1.

You have a group of data analysts that will create Power BI datasets. Each analyst will use data from a different schema in db1.

You need to simplify the process for the analysts to initially connect to db1 when using Power BI Desktop.

Which type of file should you use?

- A. PBIT
- B. PBIX
- C. PBIDS

**Correct Answer:** C

 **PrudenceK** 6 months ago

**Selected Answer: C**

PBIDS is correct. To simplify the process for the data analysts to initially connect to the PostgreSQL database (db1) when using Power BI Desktop, you should use a PBIDS (Power BI Data Source) file.

upvoted 3 times

## Question #132

## Topic 1

## HOTSPOT

You are building a financial report by using Power BI.

You have a table named financials that contains two columns named Date and Sales.

You need to create a DAX measure that calculates the relative change in sales compared to the previous quarter.

How should you complete the measure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
Sales_QoQ% =  
IF(  
    ISFILTERED('financials'[Date]),  
    ERROR("Uh oh."),  
    VAR PREV_QUARTER =  
        CALCULATE  
        CALCULATETABLE  
        DATEADD  
        DIVIDE  
        FILTER  
        FIND  
        SUM('financials'[Sales]),  
        ('financials'[Date].[Date], -1, QUARTER)  
    )  
    CALCULATE  
    CALCULATETABLE  
    DATEADD  
    DIVIDE  
    FILTER  
    FIND  
)  
RETURN  
    CALCULATE  
    CALCULATETABLE  
    DATEADD  
    DIVIDE  
    FILTER  
    FIND
```

**Answer Area**

```
Sales QoQ% =  
IF(  
    ISFILTERED('financials'[Date]),  
    ERROR("Uh oh."),  
    VAR PREV_QUARTER =  
        CALCULATE(SUM('financials'[Sales]),  
            DATEADD('financials'[Date].[Date], -1, QUARTER))  
    )  
    RETURN  
        DIVIDE(SUM('financials'[Sales]) - PREV_QUARTER, PREV_QUARTER)
```

**Correct Answer:**

```
CALCULATE(CALCULATETABLE(DATEADD(DIVIDE(FILTER(FIND(SUM('financials'[Sales])),  
            DATEADD('financials'[Date].[Date], -1, QUARTER))  
        )  
        RETURN  
            DIVIDE(SUM('financials'[Sales]) - PREV_QUARTER, PREV_QUARTER))
```

✉️ **MaryemSB** 2 weeks, 3 days ago

```
CALCULATE  
DATEADD  
DIVIDE
```

upvoted 1 times

✉️ **fireofsea** 3 months, 4 weeks ago

```
Sales QoQ% =  
IF (  
    NOT ISFILTERED('financials'[Date]),  
    ERROR("Uh oh."),  
    VAR PREV_QUARTER =  
        CALCULATE(  
            SUM('financials'[Sales]),  
            DATEADD('financials'[Date].[Date], -1, QUARTER)  
        )  
        RETURN  
            DIVIDE(SUM('financials'[Sales]) - PREV_QUARTER, PREV_QUARTER)  
    )
```

upvoted 1 times

✉️ **Alborz** 4 months, 3 weeks ago

```
CALCULATE  
DATEADD  
DIVIDE
```

upvoted 3 times

✉️ **konitoki** 5 months, 2 weeks ago

```
CALCULATE  
DATEADD  
DIVIDE
```

upvoted 3 times

## Question #133

Topic 1

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. summary
- B. cov
- C. sample
- D. rollup

**Correct Answer: A**

≡  PrudenceK 6 months ago

**Selected Answer: A**

Correct

upvoted 2 times

## Question #134

Topic 1

You have an Azure Synapse Analytics dataset that contains data about jet engine performance.

You need to score the dataset to identify the likelihood of an engine failure.

Which function should you use in the query?

- A. PREDICT
- B. CAST
- C. GROUPING
- D. PIVOT

**Correct Answer: A**

≡  Alex\_D 3 months ago

**Selected Answer: A**

Predict!

upvoted 2 times

≡  Alborz 4 months, 3 weeks ago

**Selected Answer: A**

Predict.

For sure!

upvoted 1 times

≡  PrudenceK 6 months ago

**Selected Answer: A**

Correct

upvoted 1 times

## Question #135

Topic 1

## DRAG DROP

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

## To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

## Overview

## Existing environment

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

## Azure Resources

Litware has the following Azure resources:

- An Azure Synapse Analytics workspace named synapseworkspace1
- An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1
- A Synapse Analytics dedicated SQL pool named SQLDW

## Dedicated SQL Pool

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, isActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

## Power BI

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

## Requirements

### Analytics Goals

Litware identifies the following analytics goals:

- Provide historical reporting of sales by product and channel over time.
- Allow sales managers to perform ad hoc sales reporting with minimal effort.
- Perform market basket analysis to understand which products are commonly purchased in the same transaction.
- Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the

percent change of users that view reports in the Sales Analytics workspace each month.

#### Security Requirements

Litware identifies the following security requirements for the analytics environment:

- All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.
- Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.
- Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.
- Sales managers must be prevented from modifying reports created by other users.

#### Development Process Requirements

Litware identifies the following development process requirements:

- SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.
- Power BI content must be deployed to test and production by using deployment pipelines.
- All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to create the customized Power BI usage reporting. The Usage Metrics Report dataset has already been created. The solution must minimize development and administrative effort.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

#### Actions

#### Answer Area

From Power BI Desktop, open the **Usage Metrics Report** dataset in the Sales Analytics workspace.

Request access to the Power BI audit logs.

Add visuals to the report.

Add a report measure.

Publish the report to the Sales Analytics workspace.



**Answer Area**

From Power BI Desktop, open the **Usage Metrics Report** dataset in the Sales Analytics workspace.

**Correct Answer:**

Add a report measure.

Add visuals to the report.

Publish the report to the Sales Analytics workspace.

## Question #136

Topic 1

## DRAG DROP

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- Power BI content must be deployed to test and production by using deployment pipelines.
- All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You have an Azure Synapse Analytics serverless SQL pool.

You need to return a list of files and the number of rows in each file.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Values
APPROX_COUNT_DISTINCT
COUNT_BIG
OPENDATASOURCE
OPENJSON
OPENQUERY
OPENROWSET

## Answer Area

```

SELECT
    asa.filename() AS [filename]
    , [ ] (*) AS [rows]
FROM
    [ ]
(BULK 'parquet/production/year=2017/month=9/*.parquet',
DATA_SOURCE = 'DataLake1',
FORMAT='PARQUET'
) asa
GROUP BY [filename]

```

**Answer Area**

```
SELECT  
    asa.filename() AS [filename]  
    , APPROX_COUNT_DISTINCT (*) AS [rows]  
FROM  
    OPENROWSET  
        (BULK 'parquet/production/year=2017/month=9/*.parquet',  
        DATA_SOURCE = 'DataLake1',  
        FORMAT='PARQUET'  
    ) asa  
GROUP BY [filename]
```

**Correct Answer:**

✉ **MaryemSB** 2 weeks, 3 days ago

Count Big  
OpenRowSet  
upvoted 1 times

✉ **TheSwedishGuy** 1 month, 2 weeks ago

Same question as 45. So the answer is ACTUALLY:  
Count Big  
OpenRowSet  
upvoted 3 times

**Question #137***Topic 1*

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics.

You need to present the data distribution statistics from a DataFrame in a tabular view.

Which method should you invoke on the DataFrame?

- A. summary
- B. explain
- C. cov
- D. corr

**Correct Answer: A**

✉ **Qordata** 3 weeks, 1 day ago

Question is same as Q62 and Q101 see answers there too  
upvoted 1 times

## Question #138

## Topic 1

You deploy a tabular model named DM1 to a Power BI Premium capacity. DM1 was created as an import model.

You change a fact table named Table1 into a hybrid table.

What else occurred on DM1 automatically after the change?

- A. Table1 was removed from the scheduled refresh.
- B. Dimension tables that relate to Table1 were changed to dual storage mode.
- C. A related aggregation table was created.
- D. A DirectQuery partition was added to Table1.

**Correct Answer:** D

 **MaryemSB** 2 weeks, 3 days ago

**Selected Answer: D**

<https://community.fabric.microsoft.com/t5/Desktop/What-is-the-purpose-of-Hybrid-Tables-w-Incremental-Refresh/td-p/3069472#:~:text=Hybrid%20tables%20can%20complement%20incremental,interacts%20with%20the%20data%20model.>

upvoted 1 times

## Question #139

## Topic 1

You have a Power BI tenant.

You invite an external consultant to work in the tenant.

You need to grant the consultant access to the tenant. The solution must meet the following requirements:

- The consultant must be able to consume, create, and update reports and datasets.
- The consultant must access content by using Azure AD B2B.

Which settings should you enable in the Power BI Admin portal? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Invite external users to your organization
- B. Allow Azure Active Directory guest users to access Power BI
- C. Allow Azure Active Directory guest users to edit and manage content in the organization
- D. External sharing

**Correct Answer: A**

✉️  **Qordata** 3 weeks, 1 day ago

I think the correct answers are A B and C as per the information in  
<https://learn.microsoft.com/en-us/power-bi/guidance/whitepaper-azure-b2b-power-bi#ad-hoc-or-planned-sharing-of-power-bi-apps>  
upvoted 1 times

✉️  **Cata23** 1 month, 1 week ago

Correct Answers: B & C  
upvoted 1 times

✉️  **TheSwedishGuy** 1 month, 2 weeks ago

Asked CGPT:

So, the correct selections are:

- B. Allow Azure Active Directory guest users to access Power BI
  - C. Allow Azure Active Directory guest users to edit and manage content in the organization
- upvoted 3 times

## Question #140

## Topic 1

## HOTSPOT

You are enhancing a Power BI model that has DAX calculations.

You need to create a DAX measure that returns the year-to-date total sales from the same date from the previous calendar year.

How should you complete the measure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
Sales PYTD =  
VAR startyear =  
    STARTOFTYEAR ( PREVIOUSYEAR ( 'Date'[Date] ) )  
VAR enddate =  
    LASTDATE ( Sales[Date] ) - 365  
RETURN  
    CALCULATE  
    DATESBETWEEN  
    SAMEPERIODLASTYEAR  
    SUM (Sales[sales]),  
    CALCULATE  
    DATESBETWEEN  
    SAMEPERIODLASTYEAR  
    SUM ('Calendar[Date], startyear, enddate ')  
)
```

Correct Answer:

## Answer Area

```
Sales PYTD :=  
VAR startyear =  
    STARTOFTYEAR ( PREVIOUSYEAR ( 'Date'[Date] ) )  
VAR enddate =  
    LASTDATE ( Sales[Date] ) - 365  
RETURN
```

```
(  
    CALCULATE  
    DATESBETWEEN  
    SAMEPERIODLASTYEAR  
    SUM  
)  
(Sales[sales]),  
(  
    CALCULATE  
    DATESBETWEEN  
    SAMEPERIODLASTYEAR  
    SUM  
)  
( 'Calendar[Date], startyear, enddate )  
)
```

 **Qordata** 3 weeks, 1 day ago

Is Correct, tried it out too. Also refer to similar question

<https://www.examtopics.com/discussions/microsoft/view/51355-exam-da-100-topic-4-question-6-discussion/>

upvoted 2 times

## Question #141

## Topic 1

You have a Power BI tenant that is linked to an Azure AD tenant. The tenant contains a group named Group1.

You create a paginated report that does NOT use row-level security (RLS).

You need to send a copy of the report to Group1 every Monday at 9 AM UTC.

Which two actions should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Create a subscription for Group1.
- B. Publish the paginated report to a Pro workspace.
- C. Create a data alert for Group1.
- D. Publish the paginated report to a Premium Per User workspace.

**Correct Answer:** AD

✉️  **MaryemSB** 1 week, 2 days ago

**Selected Answer: AB**

Pro licence is sufficient to publish paginated reports.

<https://learn.microsoft.com/en-us/power-bi/paginated-reports/paginated-reports-save-to-power-bi-service#requirements>

upvoted 1 times

✉️  **Qordata** 3 weeks, 1 day ago

**Selected Answer: AB**

Although it is a correct answer but i would suggest to go with pro license as it is cheaper than PPU.

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/end-user-subscribe?tabs=creator>

upvoted 2 times

## Question #142

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

From Power Query Editor, you profile the data shown in the following exhibit.

	A B C IoT GUID		IoT DateTime		1 2 3 IoT ID
	<ul style="list-style-type: none"> <li><span style="color: green;">■</span> Valid 100%</li> <li><span style="color: red;">■</span> Error 0%</li> <li><span style="color: black;">■</span> Empty 0%</li> </ul>		<ul style="list-style-type: none"> <li><span style="color: green;">■</span> Valid 100%</li> <li><span style="color: red;">■</span> Error 0%</li> <li><span style="color: black;">■</span> Empty 0%</li> </ul>		<ul style="list-style-type: none"> <li><span style="color: green;">■</span> Valid 100%</li> <li><span style="color: red;">■</span> Error 0%</li> <li><span style="color: black;">■</span> Empty 0%</li> </ul>
1	48196321-38D9-EC11-BB3D-0022489A2...		21/05/2022 18:59:15		100001000
2	49196321-38D9-EC11-BB3D-0022489A2...		21/05/2022 18:59:26		100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...		21/05/2022 19:00:21		100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You remove the IoT GUID column and retain the IoT ID column.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: A**

👤 **Qordata** 3 weeks, 1 day ago

Question came in PL-300 link to correct answer's Question: <https://www.examtopics.com/discussions/microsoft/view/94716-exam-pl-300-topic-2-question-50-discussion/>

upvoted 1 times

## Question #143

## Topic 1

You have a Power BI tenant and an Azure subscription named Sub1. The Power BI tenant and Sub1 are linked to a single Azure AD tenant.

In Sub1, you create a storage account named storage1.

You need to configure a Power BI workspace to store dataflows in storage1. The solution must use the principle of least privilege.

Which three roles should you assign for storage1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Reader
- B. Storage Blob Data Contributor
- C. Contributor
- D. Owner
- E. Storage Blob Data Owner
- F. Storage Blob Data Reader

**Correct Answer:** DEF

✉️  **MaryemSB** 2 weeks, 3 days ago

**Selected Answer: DEF**

correct answer

upvoted 1 times

✉️  **hoss29** 1 month ago

**Selected Answer: DEF**

correct

upvoted 1 times

✉️  **Sabbath** 1 month, 1 week ago

**Selected Answer: DEF**

DEF according to the document: <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 1 times

✉️  **Sabbath** 1 month, 1 week ago

DEF according to the document: <https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>

upvoted 1 times

## Question #144

## Topic 1

## HOTSPOT

You have a team of business analysts that uses Power BI for departmental analytics.

The team creates and manages PBIX files.

You need to implement a source control solution for the PBIX files. The solution must meet the following requirements:

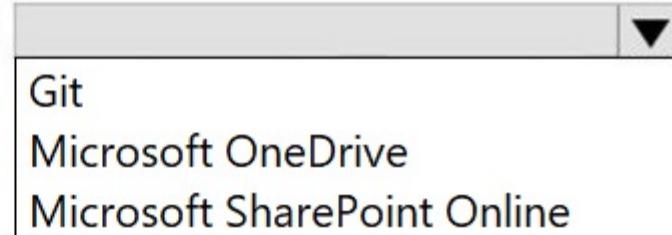
- Provide version tracking and roll back.
- Minimize version conflicts between edits.
- Ensure that all the analysts can access the files.
- Prevent multiple analysts from editing the same version of a file.

What should you include in the solution? To answer, select the appropriate options in the answer area.

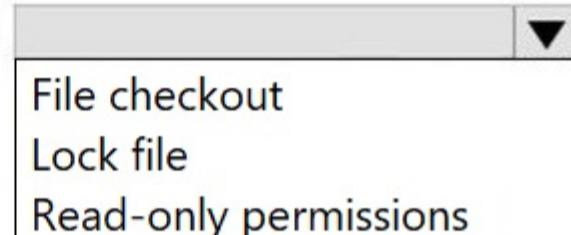
NOTE: Each correct selection is worth one point.

**Answer Area**

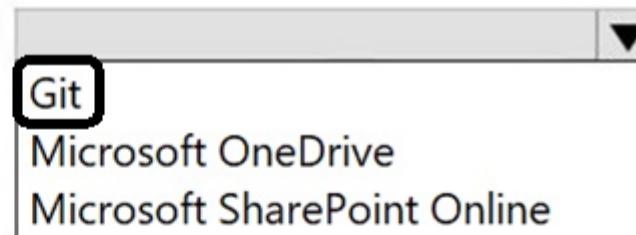
For source control, use:



To limit file access, use:

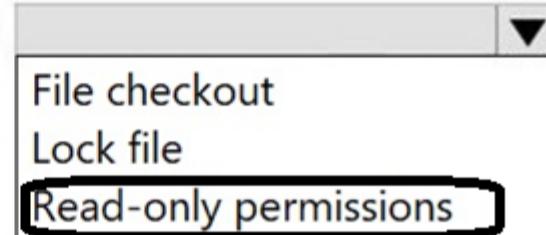
**Answer Area**

For source control, use:



Correct Answer:

To limit file access, use:



✉️ **Sabbath** 1 month, 1 week ago

According to Doc, the best answers seem to be SharePoint and file checkout: <https://learn.microsoft.com/en-us/training/modules/design-power-bi-application-lifecycle-management-strategy/3-recommend-source-control-strategy>  
upvoted 3 times

✉️ **Cata23** 1 month, 1 week ago

The correct answers are: Git and Lock file  
upvoted 1 times

✉️ **Cata23** 1 month, 1 week ago

The correct answer is : File locking  
upvoted 1 times

## Question #145

Topic 1

You have a Power BI workspace named workspace1 that contains three reports and two dataflows.

You have an Azure Data Lake Storage account named storage1.

You need to integrate workspace1 and storage1.

What should you do first?

- A. In storage1, create a folder named dataflows.
- B. Delete the dataflows from workspace1.
- C. In storage1, create a folder named reports.
- D. Delete the reports from workspace1.

**Correct Answer: B**

✉️ **MaryemSB** 2 weeks, 3 days ago

**Selected Answer: B**  
workspace should be empty of dataflows before connection to ADLS2  
upvoted 1 times

✉️ **hoss29** 1 month ago

**Selected Answer: B**  
Correct. You have to first delete all dataflows from the workspace  
<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration#detach-azure-data-lake-gen-2-from-a-workspace-or-tenant>  
upvoted 1 times

✉️ **Sabbath** 1 month, 1 week ago

**Selected Answer: B**  
"Finally, you can connect to any ADLS Gen 2 from the Admin portal, but if you connect directly to a workspace, you must first ensure there are no dataflows in the workspace before connecting."  
<https://learn.microsoft.com/en-us/power-bi/transform-model/dataflows/dataflows-azure-data-lake-storage-integration>  
upvoted 2 times

## Question #146

## Topic 1

## HOTSPOT

You have a Power BI tenant that is configured as shown in the following exhibit.

## Export and sharing settings

- ▶ Allow Azure Active Directory guest users to access Power BI  
*Enabled for the entire organization*
- ▶ Invite external users to your organization  
*Disabled for the entire organization*
- ▶ Allow Azure Active Directory guest users to edit and manage content in the organization  
*Disabled for the entire organization*
- ▶ Show Azure Active Directory guests in lists of suggested people  
*Enabled for the entire organization*

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct answer is worth one point.

## Answer Area

A new external user [answer choice].

can add other external users to the tenant  
must be added in Azure AD to access Power BI content  
will appear in lists of suggested users

For an existing guest user to edit a report, you must  
modify a [answer choice] setting.

report  
tenant  
workspace

Correct Answer:	Answer Area
	<p>A new external user [answer choice].</p> <p>can add other external users to the tenant must be added in Azure AD to access Power BI content will appear in lists of suggested users</p>
	<p>For an existing guest user to edit a report, you must modify a [answer choice] setting.</p> <p>report tenant workspace</p>

 **hoss29** 1 month ago

I believe BB. it says a 'NEW' external user which implies that he is not yet added to Azure AD  
upvoted 2 times

 **Sabbath** 1 month, 1 week ago

I think it will be C and A (report):  
 "Allow Azure Active Directory guest users to edit and manage content in the organization  
 This setting allows Azure AD B2B guest users to have full access to the browsing experience using the left-hand navigation pane in the organization. Guest users who have been assigned workspace roles or specific item permissions continue to have those roles and/or permissions, even if this setting is disabled."  
<https://learn.microsoft.com/en-us/fabric/admin/service-admin-portal-export-sharing>  
 upvoted 1 times

 **Qordata** 3 weeks ago

If we refer to "Power BI Admin Portal provides the \*allow external guest users to edit and manage content in the organization setting\* in Tenant settings" so for second drop down option B "Tenant" is correct. I think we should stick to it because other settings are on similar lines that are shared in question.  
 upvoted 1 times

 **Qordata** 3 weeks ago

link to above forgot to provide: <https://powerbi.microsoft.com/nl-be/blog/azure-ad-b2b-guest-users-can-now-edit-and-manage-content-in-power-bi-to-collaborate-better-across-organizations/>

upvoted 1 times

## Question #147

*Topic 1*

DRAG DROP

You have a Power BI data model that contains two tables named Products and Sales.

A one-to-many relationship exists between the tables.

You have a report that contains a report-level filter for Products.

You need to create a DAX measure that will return the percent of total sales for each product. The measure must respect the report-level filter when calculating the total.

How should you complete the measure? To answer, drag the appropriate DAX functions to the correct targets. Each function may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Functions
ALL
ALLSELECTED
CALCULATE
FILTER
SELECTEDVALUE

### Answer Area

```
Percent of Product Sales =
VAR ProductSales = SUM ('Sales'[Sales])
VAR AllSales =
    [CALCULATE] (SUM ('Sales'[Sales]), [ALL] ('Products'[Product]))
RETURN
DIVIDE (ProductSales, AllSales)
```

### Answer Area

```
Percent of Product Sales =
VAR ProductSales = SUM ('Sales'[Sales])
VAR AllSales =
    [CALCULATE] (SUM ('Sales'[Sales]), [ALL] ('Products'[Product]))
RETURN
DIVIDE (ProductSales, AllSales)
```

### Correct Answer:

 **MaryemSB** 2 weeks, 3 days ago

1. CALCULATE
2. ALLSELECTED

second is not ALL because "ALLSELECTED only ignores the filters coming from inside the visual itself, whereas ALL ignores any filters coming from anywhere in this visual or other visual on the page"

<https://radacad.com/power-bi-dax-all-vs-allselected#:~:text=The%20ALLSELECTED%20is%20also%20a,other%20visual%20on%20the%20page.>  
upvoted 1 times

 **Qordata** 2 weeks, 5 days ago

For dropbox 2 it should be ALLSELECTED b/c question states: The measure must respect the report-level filter when calculating the total.  
<https://learn.microsoft.com/en-us/dax/allselected-function-dax>

upvoted 2 times

## Question #148

## Topic 1

You have an Azure Synapse Analytics notebook.

You run the %%sql magic command to render data into an Apache Spark DataFrame named df1, and then you run the following code.

```
display(df1, summary = true)
```

Which three attributes will be returned by the command? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. type
- B. range
- C. missing
- D. unique
- E. ordinal

**Correct Answer:** ACD

✉️  **Qordata** 2 weeks, 5 days ago

**Selected Answer: ACD**

Correct

Reference: <https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization>

upvoted 2 times

✉️  **hoss29** 1 month ago

**Selected Answer: ACD**

Correct

upvoted 1 times

**Question #149****Topic 1**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI Premium capacity.

From the Power BI Premium Capacity Metrics app, you discover the following:

- There is insufficient CPU to execute dataset refreshes.
- Out-of-memory throttling occurs when the dataset is waiting.

You need to recommend a solution to resolve the performance issues.

Solution: You assign Premium per user licenses to all workspace members.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

**Question #150****Topic 1**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI Premium capacity.

From the Power BI Premium Capacity Metrics app, you discover the following:

- There is insufficient CPU to execute dataset refreshes.
- Out-of-memory throttling occurs when the dataset is waiting.

You need to recommend a solution to resolve the performance issues.

Solution: You move the datasets to a larger capacity.

Does this meet the goal?

- A. Yes
- B. No

**Correct Answer: B**

## Question #151

## Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI Premium capacity.

From the Power BI Premium Capacity Metrics app, you discover the following:

- There is insufficient CPU to execute dataset refreshes.
- Out-of-memory throttling occurs when the dataset is waiting.

You need to recommend a solution to resolve the performance issues.

Solution: You scale up the capacity.

Does this meet the goal?

A. Yes

B. No

**Correct Answer: A**

## Question #152

## Topic 1

You have a Power BI report that contains a card. The card displays the value for year-to-date revenue.

You need to ensure that screen reader users can read the value when initially interacting with the card. The value must stay updated as the dataset is refreshed.

What should you do?

- Convert the card into a text box.
- Populate the alt text by using conditional formatting with a DAX measure.
- Add the value to the chart title text.
- Populate the alt text with a static value.

**Correct Answer: B**

 **Qordata** 3 weeks ago

**Selected Answer: B**

Answer is correct because when a report consumer navigates to a visual, the screen reader will read out the title, visual type, and any alt text if that has been set.

<https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-creating-reports>

upvoted 1 times

## Question #153

## Topic 1

DRAG DROP

You have an Azure Synapse Analytics workspace that is connected to an Azure Data Lake Storage Gen2 account.

From Synapse Studio, you run the following query.

```
SELECT YEAR(OrderDate) AS OrderYear,  
       SUM((UnitPrice * Quantity) + TaxAmount) AS GrossRevenue  
  FROM dbo.orders  
 GROUP BY YEAR(OrderDate)  
 ORDER BY OrderYear;
```

You need to create a column chart to visualize the changes in gross revenue over time.

How should you populate the chart? To answer, drag the appropriate columns to the correct settings. Each column may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Columns**

GrossRevenue  
 OrderYear  
 Quantity  
 UnitPrice

**Answer Area**

Category column:   
Legend (series) columns:

**Correct Answer:****Answer Area**

Category column:  OrderYear

Legend (series) columns:  GrossRevenue

## Question #154

## Topic 1

You are creating a Power BI report that will contain multiple visuals.

You need to ensure that the report is accessible to users who use a screen reader.

Which two configurations should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. consistent colors for each visual
- B. consistent fonts for each visual
- C. alt text for each visual
- D. the tab order for each page
- E. Play Axis for each page

**Correct Answer:** CD

 **Qordata** 3 weeks ago

C: Alt Text is read out loud by screen reader so it is definitely correct

D: Tab Order is for keyboard navigation but if any visual tab order is marked as hidden then they are not announced by screen reader so this setting could be used in this sense but tab order for page still seems not a good option but this is better than other options available so i would go with it

upvoted 2 times

## Question #155

## Topic 1

## HOTSPOT

You deploy a tabular model to the Power BI service. The model is developed and maintained by using Microsoft Visual Studio. Power BI connects to the model by using the Connect live option.

You need to recommend a source control solution for the model and the report files.

What should you include in the recommendation for each type of file? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

.pbix files:

- Azure Data Lake Storage
- Git repository
- Microsoft OneDrive

.bim files:

- Azure Data Lake Storage
- Git repository
- Microsoft OneDrive

**Answer Area**

.pbix files:

- Azure Data Lake Storage
- Git repository
- Microsoft OneDrive

Correct Answer:

.bim files:

- Azure Data Lake Storage
- Git repository
- Microsoft OneDrive

  **MaryemSB** 2 weeks, 3 days ago

OneDrive  
Git

check Best practices section in below link

"If developing .pbix and .bim files, still use OneDrive or SharePoint for .pbix files, and use Git for .bim files."

<https://learn.microsoft.com/en-us/training/modules/design-power-bi-application-lifecycle-management-strategy/3-recommend-source-control-strategy>

upvoted 1 times

## Question #156

## Topic 1

## HOTSPOT

You have an Azure Synapse Analytics dedicated SQL pool that contains a table named dbo.DimProduct.

You need to write a query to meet the following requirements:

- Return the ranked position of each product ordered by list price descending within each product category, allowing gaps in the ranking values after ties.
- Specify the quartile in which each product's list price falls within each product category.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
SELECT ProductCategory,
       ProductName,
       ListPrice,
        OVER
       DENSE_RANK()
       RANK()
       ROW_NUMBER()
       (PARTITION BY ProductCategory ORDER BY ListPrice DESC) AS Rank,
        OVER
       NTILE(25)
       NTILE(4)
       PERCENT_RANK
       (PARTITION BY ProductCategory ORDER BY ListPrice DESC) AS Quartile
FROM dbo.DimProduct
ORDER BY ProductCategory;
```

**Answer Area**

```
SELECT ProductCategory,
       ProductName,
       ListPrice,
        OVER
       DENSE_RANK()
       RANK()
       ROW_NUMBER()
       (PARTITION BY ProductCategory ORDER BY ListPrice DESC) AS Rank,
        OVER
       NTILE(25)
       NTILE(4)
       PERCENT_RANK
       (PARTITION BY ProductCategory ORDER BY ListPrice DESC) AS Quartile
FROM dbo.DimProduct
ORDER BY ProductCategory;
```

**Correct Answer:**

  MaryemSB 1 week, 4 days ago

Correct answer  
upvoted 1 times

## Question #157

## Topic 1

You have a Power BI report named Report1. Report1 is connected to an imported dataset that contains a matrix. The matrix displays five measures.

When users view the report, they discover that the matrix is slow to render.

You need to review the execution times and durations in the formula engine and the storage engine for the DAX query executed by the matrix.

What should you use?

- A. DAX Studio
- B. SQL Server Profiler
- C. Performance analyzer
- D. Vertipaq Analyzer

**Correct Answer:** D

✉️  **MaryemSB** 1 week, 2 days ago

**Selected Answer: A**

DAX Studio

upvoted 1 times

✉️  **salvalcaraz** 1 week, 5 days ago

**Selected Answer: A**

DAX Studio, no doubt

upvoted 1 times

✉️  **Qordata** 3 weeks ago

**Selected Answer: A**

refer link: <https://www.sqlbi.com/articles/formula-engine-and-storage-engine-in-dax/>

upvoted 2 times

✉️  **hoss29** 1 month ago

**Selected Answer: A**

The answer is Dax Studio

upvoted 1 times

✉️  **TheSwedishGuy** 1 month, 2 weeks ago

Should be A, DAX Studio.

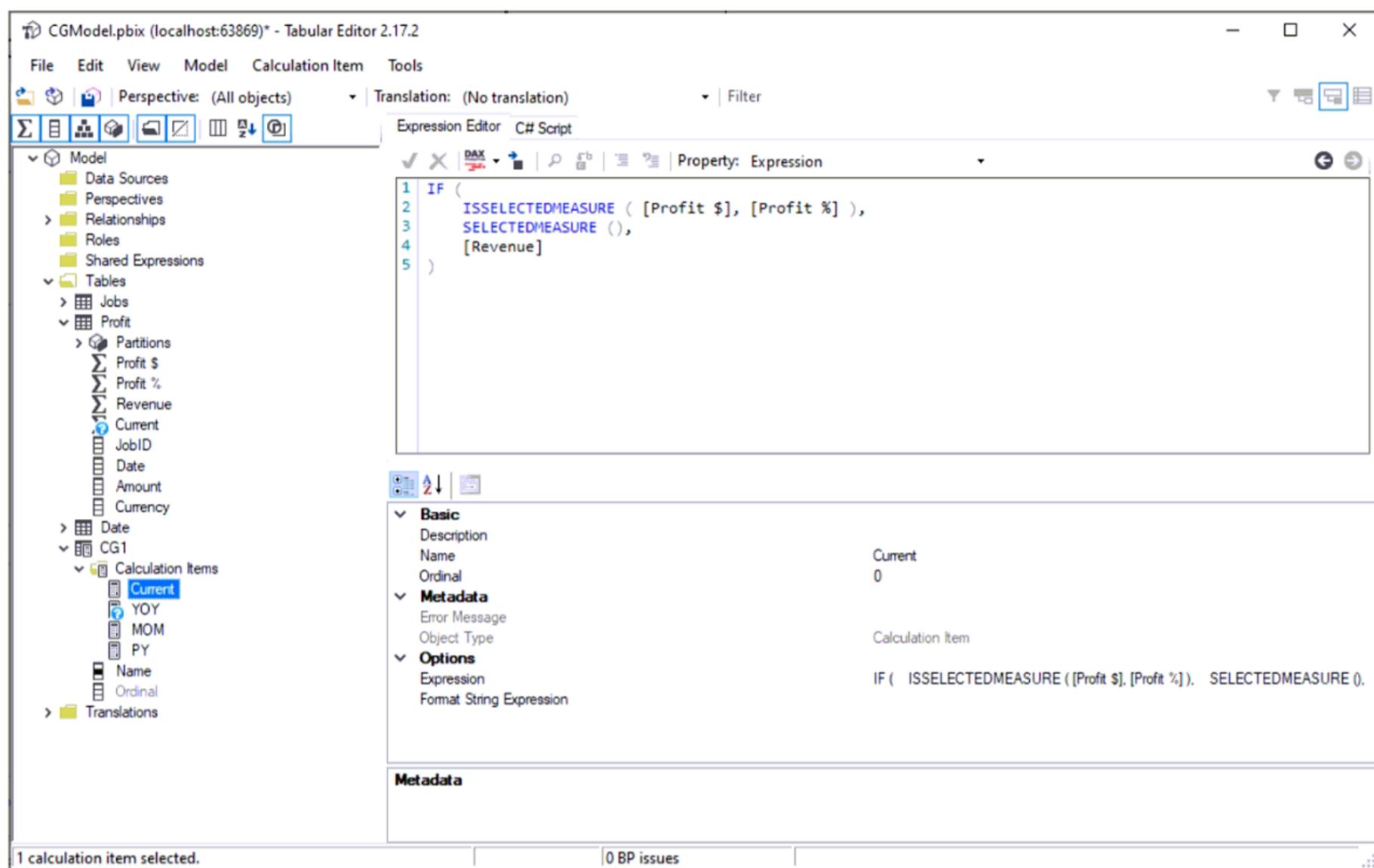
upvoted 3 times

## Question #158

## Topic 1

## HOTSPOT

You have a Power BI report and dataset in Power BI Desktop. The dataset contains a calculation group named CG1 that contains four calculation items. The Current calculation item is shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

## Answer Area

The [Profit \$] and [Profit %] measures are referenced to [answer choice] the calculation group.

exclude them from  
include them specifically in  
to make the precedence higher for

If the name of the [Profit \$] measure is changed, the calculation item expression [answer choice].

must be manually updated  
will be automatically updated with the new name  
will fail until a translation is added

## Answer Area

The [Profit \$] and [Profit %] measures are referenced to [answer choice] the calculation group.

exclude them from  
include them specifically in  
to make the precedence higher for

## Correct Answer:

If the name of the [Profit \$] measure is changed, the calculation item expression [answer choice].

must be manually updated  
will be automatically updated with the new name  
will fail until a translation is added

MaryemSB 6 days, 3 hours ago

Correct Answer

upvoted 1 times

✉  **hoss29** 1 month ago

I think it's correct

upvoted 1 times

## Question #159

*Topic 1*

You have an Azure subscription that contains an Azure Synapse Analytics workspace.

You create an Azure Data Lake Storage Gen2 account and upload a CSV file named File1.csv.

You need to use Synapse Studio to query the data in File1.csv by using a serverless SQL pool.

Which Transact-SQL operator should you include in the query?

- A. OPENQUERY
- B. OPENROWSET
- C. STRING\_SPLIT
- D. OPENDATASOURCE

**Correct Answer:** *B*

✉  **MaryemSB** 1 week, 4 days ago

Correct answer

upvoted 1 times

**Question #160****Topic 1**

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

**To start the case study -**

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

**Overview -****General Overview -**

Fabrikam, Inc. is a software company that develops educational software for higher education.

**Organizational Structure -**

Fabrikam has the following business units:

- Finance and Accounting
- Sales and Marketing
- Operations
- Product

The Product business unit contains the following groups:

- User experience designers
- Software engineers
- Product managers
- Testers

The Operations business unit contains an information technology (IT) group. The IT group contains an enterprise analytics team and an information security team.

**Existing Environment -****Data Storage -**

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using

## Power BI.

The company imports the following files into the Data Lake Storage accounts:

- User experience data stored as JSON files
- Finance data stored as CSV files
- Sales data stored as CSV files

## Reporting -

Fabrikam has a Power BI tenant that contains 30 workspaces in Pro license mode. The data in the workspaces is a mix of Import and DirectQuery datasets. All reports are interactive.

Fabrikam has three frequently used workspaces as shown in the following table.

Name	Description	Owner
User Experience	Contains the following data: support requests, logged bugs, and end-user survey responses	Product
P&L	Contains the following data: profit and loss statements for the entire company and for various internal product group	Finance and Accounting
Corporate Date Models	Contains datasets that are maintained by the enterprise analytics team for use in the workspaces of other teams	IT

The Corporate Data Models workspace contains a dataset named Financial Model that is used by reports in the P&L workspace. Financial Model is maintained by the enterprise analytics team. The Corporate Data Models workspace and the User Experience workspace have corresponding development and test workspaces.

## User Problems -

Administrators report an increase in the maintenance of Power BI tenant assets due to analysts in the Finance and Accounting business unit who create new Power BI datasets when the existing datasets already meet their needs.

Analysts in the Product business unit report the following issues:

- Datasets are published to the User Experience workspace, while the data sources reference workspace1test.
- The parsing of user experience data in Power Query is very slow.

The enterprise analytics team identifies two DAX measures in the Financial Model dataset that are consistently slow to execute. The team must identify all the reports that use the Financial Model dataset and notify the report owners of changes to the measures.

Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

## Requirements -

### Planned Changes -

Fabrikam plans to implement the following changes:

- Power BI will be registered as a data source in Microsoft Purview.
- The analysts in the Product business unit will create a more automated process for deploying Power BI reports and datasets to the User Experience workspace.

The enterprise analytics team plans to perform the following tasks:

- Update the DAX calculations in the Financial Model dataset.
- Create views in the Azure Synapse workspaces to speed up the parsing of user experience data.
- Create and document the change management process for shared Power BI datasets.

### Technical Requirements -

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

- Access to the tenant by external users must be approved by a manager and granted by the IT group.
- The external users must be prevented from publishing or modifying content in the tenant.
- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

The enterprise analytics team needs to notify the report owners of the planned changes. The solution must minimize administrative effort.

What should the team do?

- A. Locate all the downstream reports, identify all the users that are assigned the Admin role, and then send an email to each user.
- B. Write a PowerShell script to access the Power BI API that retrieves a list of downstream reports and a list of workspace administrators, and then send an email to each workspace administrator.
- C. Perform impact analysis on the Financial Model dataset to notify the workspace contacts.
- D. Perform impact analysis feature on the lake database data source to notify the workspace contacts.

**Correct Answer: C**

  **MaryemSB** 1 week, 4 days ago

**Selected Answer: C**

Correct answer

<https://learn.microsoft.com/en-us/power-bi/collaborate-share/service-dataset-impact-analysis>

upvoted 1 times

**Question #161****Topic 1**

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**Overview -****General Overview -**

Fabrikam, Inc. is a software company that develops educational software for higher education.

**Organizational Structure -**

Fabrikam has the following business units:

- Finance and Accounting
- Sales and Marketing
- Operations
- Product

The Product business unit contains the following groups:

- User experience designers
- Software engineers
- Product managers
- Testers

The Operations business unit contains an information technology (IT) group. The IT group contains an enterprise analytics team and an information security team.

**Existing Environment -****Data Storage -**

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using

## Power BI.

The company imports the following files into the Data Lake Storage accounts:

- User experience data stored as JSON files
- Finance data stored as CSV files
- Sales data stored as CSV files

## Reporting -

Fabrikam has a Power BI tenant that contains 30 workspaces in Pro license mode. The data in the workspaces is a mix of Import and DirectQuery datasets. All reports are interactive.

Fabrikam has three frequently used workspaces as shown in the following table.

Name	Description	Owner
User Experience	Contains the following data: support requests, logged bugs, and end-user survey responses	Product
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The Corporate Data Models workspace contains a dataset named Financial Model that is used by reports in the P&L workspace. Financial Model is maintained by the enterprise analytics team. The Corporate Data Models workspace and the User Experience workspace have corresponding development and test workspaces.

## User Problems -

Administrators report an increase in the maintenance of Power BI tenant assets due to analysts in the Finance and Accounting business unit who create new Power BI datasets when the existing datasets already meet their needs.

Analysts in the Product business unit report the following issues:

- Datasets are published to the User Experience workspace, while the data sources reference workspace1test.
- The parsing of user experience data in Power Query is very slow.

The enterprise analytics team identifies two DAX measures in the Financial Model dataset that are consistently slow to execute. The team must identify all the reports that use the Financial Model dataset and notify the report owners of changes to the measures.

Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

## Requirements -

### Planned Changes -

Fabrikam plans to implement the following changes:

- Power BI will be registered as a data source in Microsoft Purview.
- The analysts in the Product business unit will create a more automated process for deploying Power BI reports and datasets to the User Experience workspace.

The enterprise analytics team plans to perform the following tasks:

- Update the DAX calculations in the Financial Model dataset.
- Create views in the Azure Synapse workspaces to speed up the parsing of user experience data.
- Create and document the change management process for shared Power BI datasets.

### Technical Requirements -

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

- Access to the tenant by external users must be approved by a manager and granted by the IT group.
- The external users must be prevented from publishing or modifying content in the tenant.
- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to recommend a solution for the analysts in the Finance and Accounting business unit to mitigate the increase in maintenance of their assets in the Power BI tenant.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Use Microsoft Purview to search for datasets that contain the relevant data.
- B. Perform impact analysis on the relevant data source.
- C. Create a live connection to a Power BI dataset.
- D. Create a Power BI template app.

**Correct Answer: BD**

 **MaryemSB** 1 week, 4 days ago

**Selected Answer: AB**

- A. Use Microsoft Purview to search for datasets that contain the relevant data.
  - B. Perform Impact Analysis
- upvoted 1 times

**Question #162****Topic 1****HOTSPOT**

-

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**Overview**

-

**General Overview**

-

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**Organizational Structure**

-

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- Product managers
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**Existing Environment**

## Data Storage

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using Power BI.

The company imports the following files into the Data Lake Storage accounts:

- User experience data stored as JSON files
- Finance data stored as CSV files
- Sales data stored as CSV files

## Reporting

Fabrikam has a Power BI tenant that contains 30 workspaces in Pro license mode. The data in the workspaces is a mix of Import and DirectQuery datasets. All reports are interactive.

Fabrikam has three frequently used workspaces as shown in the following table.

Name	Description	Owner
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The Corporate Data Models workspace contains a dataset named Financial Model that is used by reports in the P&L workspace. Financial Model is maintained by the enterprise analytics team. The Corporate Data Models workspace and the User Experience workspace have corresponding development and test workspaces.

## User Problems

Administrators report an increase in the maintenance of Power BI tenant assets due to analysts in the Finance and Accounting business unit who create new Power BI datasets when the existing datasets already meet their needs.

Analysts in the Product business unit report the following issues:

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- The parsing of user experience data in Power Query is very slow.

The enterprise analytics team identifies two DAX measures in the Financial Model dataset that are consistently slow to execute. The team must identify all the reports that use the Financial Model dataset and notify the report owners of changes to the measures.

Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

#### Requirements

-

#### Planned Changes

-

Fabrikam plans to implement the following changes:

- Power BI will be registered as a data source in Microsoft Purview.
- The analysts in the Product business unit will create a more automated process for deploying Power BI reports and datasets to the User Experience workspace.

The enterprise analytics team plans to perform the following tasks:

- Update the DAX calculations in the Financial Model dataset.
- Create views in the Azure Synapse workspaces to speed up the parsing of user experience data.
- Create and document the change management process for shared Power BI datasets.

#### Technical Requirements

-

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

- Access to the tenant by external users must be approved by a manager and granted by the IT group.
- The external users must be prevented from publishing or modifying content in the tenant.
- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to recommend a security solution for the Power BI tenant to control external data sharing. The solution must meet the technical requirements.

What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

To prevent users from sharing public reports:

Disable Publish to web.  
For specific security groups, Enable Publish to web.  
For specific security groups, enable Invite external users to your organization.

To provide external users with access:

Disable Invite external users to your organization.  
Disable Users can set up email subscriptions.  
For specific security groups, enable Invite external users to your organization.

### Answer Area

To prevent users from sharing public reports:

Disable Publish to web.  
For specific security groups, Enable Publish to web.  
For specific security groups, enable Invite external users to your organization.

### Correct Answer:

To provide external users with access:

Disable Invite external users to your organization.  
Disable Users can set up email subscriptions.  
For specific security groups, enable Invite external users to your organization.

 **MaryemSB** 1 week, 2 days ago

answer is correct

upvoted 1 times

**Question #163****Topic 1****HOTSPOT**

-

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**To start the case study**

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**Overview**

-

**General Overview**

-

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**Existing Environment**

## Data Storage

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using Power BI.

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Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

#### Requirements

-

#### Planned Changes

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Fabrikam plans to implement the following changes:

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- Create views in the Azure Synapse workspaces to speed up the parsing of user experience data.
- Create and document the change management process for shared Power BI datasets.

#### Technical Requirements

-

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

- Access to the tenant by external users must be approved by a manager and granted by the IT group.
- The external users must be prevented from publishing or modifying content in the tenant.
- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

The enterprise analytics team needs to create a view for the survey response data. The solution must meet the technical requirements.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

```
CREATE VIEW dbo.SurveyAnswers AS
SELECT doc
FROM
OPENROWSET(
    BULK 'https://mydatalake.dfs.core.windows.net/UserExp/Raw/SurveyAnswers*.json',
    JSON_VALUE,
    PARSE
)
FORMAT = 'csv',
FORMAT = 'json',
FORMAT = 'parquet',
FIELDTERMINATOR = '0x0b',
FIELDQUOTE = '0x0b',
ROWTERMINATOR = '0x0b'
) WITH (doc NVARCHAR(MAX)) as rows
```

### Answer Area

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CREATE VIEW dbo.SurveyAnswers AS
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FORMAT = 'parquet',
FIELDTERMINATOR = '0x0b',
FIELDQUOTE = '0x0b',
ROWTERMINATOR = '0x0b'
) WITH (doc NVARCHAR(MAX)) as rows
```

### Correct Answer:

 **MaryemSB** 1 week, 2 days ago

First is obviously BULK  
Second is CSV not JSON. in Microsoft documentation, it's clearly mentioned to use 'csv' as FORMAT in OPENROWSET.

see link:

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql/query-json-files#read-json-documents>

upvoted 1 times

 **Qordata** 3 weeks ago

Second is definitely json but for first there is already BULK in statement so we don't have to place any keyword before that this question is very confusing

upvoted 1 times

 **TheSwedishGuy** 1 month, 2 weeks ago

Should be BULK and JSON.

upvoted 3 times

**Question #164****Topic 1****DRAG DROP**

-

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**Overview**

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**General Overview**

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**Organizational Structure**

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- Testers

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**Existing Environment**

## Data Storage

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using Power BI.

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#### Requirements

-

#### Planned Changes

-

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- Update the DAX calculations in the Financial Model dataset.
- Create views in the Azure Synapse workspaces to speed up the parsing of user experience data.
- Create and document the change management process for shared Power BI datasets.

#### Technical Requirements

-

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- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to ensure that the new process for deploying reports and datasets to the User Experience workspace meets the technical requirements.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and

arrange them in the correct order.

### Actions

### Answer Area

Create deployment rules for the rest and production stages.



Assign the workspaces to the correct stages.



Create a Power BI deployment pipeline.



Create deployment rules for the development and test stages.

Create an Azure Synapse pipeline.

### Correct Answer:

#### Answer Area

Create an Azure Synapse pipeline.

Assign the workspaces to the correct stages.

Create deployment rules for the development and test stages.

✉️ **MaryemSB** 2 weeks, 2 days ago

- 1.Create a Power BI deployment pipeline.
- 2.Assign the workspaces to the correct stages.
- 3.Create deployment rules for the test and prod stages.

3: dev stage does not provide option to define deployment rules

upvoted 1 times

✉️ **Cata23** 1 month, 1 week ago

The correct answer is:

- Create a Power BI deployment pipeline.  
Assign the workspaces to the correct stages.  
Create deployment rules for the development and test stages.

upvoted 2 times

✉️ **hoss29** 1 month ago

I agree but I have a doubt : all 30 PowerBI workspaces are in Pro license, while premium licensing is required for deployment pipelines in Power bi ?

upvoted 1 times

**Question #165****Topic 1**

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**Overview -****General Overview -**

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**Organizational Structure -**

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- Product

The Product business unit contains the following groups:

- User experience designers
- Software engineers
- Product managers
- Testers

The Operations business unit contains an information technology (IT) group. The IT group contains an enterprise analytics team and an information security team.

**Existing Environment -****Data Storage -**

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using

## Power BI.

The company imports the following files into the Data Lake Storage accounts:

- User experience data stored as JSON files
- Finance data stored as CSV files
- Sales data stored as CSV files

## Reporting -

Fabrikam has a Power BI tenant that contains 30 workspaces in Pro license mode. The data in the workspaces is a mix of Import and DirectQuery datasets. All reports are interactive.

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## User Problems -

Administrators report an increase in the maintenance of Power BI tenant assets due to analysts in the Finance and Accounting business unit who create new Power BI datasets when the existing datasets already meet their needs.

Analysts in the Product business unit report the following issues:

- Datasets are published to the User Experience workspace, while the data sources reference workspace1test.
- The parsing of user experience data in Power Query is very slow.

The enterprise analytics team identifies two DAX measures in the Financial Model dataset that are consistently slow to execute. The team must identify all the reports that use the Financial Model dataset and notify the report owners of changes to the measures.

Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

## Requirements -

### Planned Changes -

Fabrikam plans to implement the following changes:

- Power BI will be registered as a data source in Microsoft Purview.
- The analysts in the Product business unit will create a more automated process for deploying Power BI reports and datasets to the User Experience workspace.

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- Update the DAX calculations in the Financial Model dataset.
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### Technical Requirements -

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

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- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

The enterprise analytics team needs to resolve the DAX measure performance issues.

What should the team do first?

- A. Use Performance analyzer in Power BI Desktop to get the DAX durations.
- B. Use DAX Studio to get detailed statistics on the server timings.
- C. Use DAX Studio to review the Vertipaq Analyzer metrics.
- D. Use Tabular Editor to create calculation groups.

**Correct Answer: A**

 **MaryemSB** 4 days, 20 hours ago

**Selected Answer: B**

B should be the right answer.

Performance Analyzer indicates if slowness is coming from DAX, visual or waiting time (other), while here, it's already identified that slowness is at DAX level. Hence, Performance Analyzer has no added value. In addition, DAX Studio gives detailed metrics about CPU, Storage Engine, Formula Engine,... durations (and more) which can identify the root cause of DAX low performance.  
check link:

<https://blog.enterprisedna.co/query-plan-server-timings-in-dax-studio/>

upvoted 1 times

 **hoss29** 1 month ago

**Selected Answer: A**

A should be correct

upvoted 1 times

**Question #166****Topic 1**

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Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

The information security team identifies that the user experience data is being shared externally.

## Requirements -

### Planned Changes -

Fabrikam plans to implement the following changes:

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### Technical Requirements -

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

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Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

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- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to optimize the workflow for the creation of reports and the adjustment of tables by the enterprise analytics team.

What should you do?

- A. Add a tenant-level storage connection to Power BI.
- B. Create a linked service in workspace1.
- C. Create an integration runtime in workspace1.
- D. From the Tenant setting, enable Use global search for Power BI.

**Correct Answer: B**

 **MaryemSB** 1 week, 2 days ago

**Selected Answer: B**

B is correct.

Analysts should switch between Power BI and Synapse workspaces which is "tedious" as mentioned in the case study. Solution is to link Power BI service to Synapse workspace to enable working in the same platform.

upvoted 1 times

 **Qordata** 3 weeks ago

Answer B seems incorrect but I am unsure of what is the correct answer. Someone please confirm if it is clear to them

upvoted 1 times

**Question #167****Topic 1**

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- User experience designers
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- Product managers
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The Operations business unit contains an information technology (IT) group. The IT group contains an enterprise analytics team and an information security team.

**Existing Environment -****Data Storage -**

Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using

## Power BI.

The company imports the following files into the Data Lake Storage accounts:

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## User Problems -

Administrators report an increase in the maintenance of Power BI tenant assets due to analysts in the Finance and Accounting business unit who create new Power BI datasets when the existing datasets already meet their needs.

Analysts in the Product business unit report the following issues:

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Members of the enterprise analytics team report that creating Power BI reports and adjusting tables and views in Azure Synapse is tedious because they must switch between the Power BI workspaces and the Azure Synapse workspaces.

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## Requirements -

### Planned Changes -

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### Technical Requirements -

From Microsoft Purview, analysts in all the business units must be able to see all the assets in the Power BI tenant and the Azure Synapse workspaces. Power BI asset information must include lineage to identify the data sources used by each report.

The information security team must identify all the Power BI reports and datasets that contain Personally Identifiable Information (PII).

Fabrikam requires a security solution for the Power BI tenant. The solution must meet the following requirements:

- Access to the tenant by external users must be approved by a manager and granted by the IT group.
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- Users must be prevented from sharing Power BI reports publicly to the internet.

The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to meet the technical requirements for deploying reports and datasets to the User Experience workspace.

What should you do?

- A. From the Corporate Data Models and User Experience workspaces, select Allow contributors to update the app.
- B. From the Corporate Data Models and User Experience workspace, set License mode to Premium per user.
- C. From the Tenant settings, set Allow specific users to turn on external data sharing to Enable.
- D. From the Developer settings, set Allow service principals to use Power BI APIs to Enable.

**Correct Answer: D**

**Question #168****Topic 1**

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Fabrikam has three Azure Synapse Analytics workspaces named workspace1prod, workspace1test, and workspace1dev. Each workspace is connected to an Azure Data Lake Storage account and contains a lake database that is accessed by using the built-in serverless SQL pool. The data in the Data Lake Storage accounts is available in the lake databases for analysts from every business unit to query and analyze by using

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The company imports the following files into the Data Lake Storage accounts:

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- Finance data stored as CSV files
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## User Problems -

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## Requirements -

### Planned Changes -

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The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

You need to recommend changes to the Power BI tenant to meet the technical requirements for external data sharing.

Which tenant setting should you recommend disabling?

- A. Allow shareable links to grant access to everyone in your organization
- B. Allow Azure Active Directory guest users to edit and manage content in the organization
- C. Users can reassign personal workspaces
- D. Show Azure Active Directory guests in lists of suggested people

**Correct Answer: A**

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The new process for deploying Power BI reports and datasets to the User Experience workspace must ensure that the datasets point to the lake database to which the relevant dataset is deployed. The views in each lake database must present the data in a tabular format.

The IT group registers the Power BI tenant as a data source in Microsoft Purview.

You need to ensure that all the analysts can view the assets in the Power BI tenant. The solution must meet the technical requirements for Microsoft Purview and Power BI.

What should you do?

- A. Create a scan.
- B. Deploy a Power BI gateway.
- C. Search the data catalog.
- D. Create a linked service.

**Correct Answer: A**

 **Serhiib** 1 week, 5 days ago

I think it should be C

<https://community.fabric.microsoft.com/t5/Service/Create-a-data-catalog-list-of-dataflows-datasets-reports/m-p/2620224>

upvoted 1 times

## Question #170

## Topic 1

## HOTSPOT

You have a Power BI tenant that contains two workspaces named WorkspaceA and WorkspaceB. WorkspaceA contains centralized datasets.

You need to ensure that users can create reports by using the datasets in WorkspaceA and store the reports in WorkspaceB.

Which setting should you enable and for which resource? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Setting:

- Allow DirectQuery connections to Power BI datasets
- Allow specific users to turn on external data sharing
- Guest users can work with shared datasets in their own tenants
- Use datasets across workspaces

Resource:

- The datasets
- The tenant
- The workspaces

## Answer Area

Setting:

- Allow DirectQuery connections to Power BI datasets
- Allow specific users to turn on external data sharing
- Guest users can work with shared datasets in their own tenants
- Use datasets across workspaces

Correct Answer:

Resource:

- The datasets
- The tenant
- The workspaces

✉ Razin 3 weeks, 6 days ago

<https://learn.microsoft.com/en-us/power-bi/connect-data/service-datasets-admin-across-workspaces>

Use datasets across workspaces

The Tenant

upvoted 3 times

## Question #171

Topic 1

You have an Azure SQL database named DB1.

You have a Power BI tenant that contains 20 workspaces. Multiple workspaces contain datasets that use DB1 as a data source.

You need to identify how many datasets use DB1 as a data source across the tenant.

What should you use?

- A. an XLMA endpoint
- B. the Power BI REST API
- C. Power BI data source files
- D. lineage view

**Correct Answer: D**

✉️  **MaryemSB** 1 week, 2 days ago

**Selected Answer: D**

Data lineage shows list of datasets using a specific datasource via "Show impact across workspaces" button  
upvoted 1 times

## Question #172

Topic 1

You have a Power BI tenant.

You plan to publish 10 paginated reports that will be used by a team of business analysts.

You need to create a new workspace for the reports. The solution must minimize costs.

Which license mode should you select for the new workspace?

- A. Pro
- B. Premium per user
- C. Embedded
- D. Premium per capacity

**Correct Answer: A**

✉️  **MaryemSB** 1 week, 2 days ago

**Selected Answer: A**

PRO licence is sufficient to publish paginated reports  
upvoted 1 times

## Question #173

## Topic 1

You have a development workspace in the Power BI service.

You plan to use Tabular Editor to develop and deploy a new dataset, and then use Power BI Desktop to create and publish a report to the Power BI service.

Which three components should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. the Read Write XMLA endpoint in a capacity
- B. a Premium Per User workspace
- C. the Read Write XMLA endpoint in the tenant
- D. a .pbix file that has an imported dataset
- E. a .pbix file that has a live connection

**Correct Answer:** ABD

✉️  **MaryemSB** 1 week, 4 days ago

**Selected Answer:** ABE

A: Enable Read write for the XMLA in the capacity settings not the tenant settings  
B: you need to have a ppu or Prmuim capacity to enable xmla read write  
E: with tabular editor, we need to live connection  
upvoted 1 times

✉️  **Qordata** 2 weeks, 4 days ago

**Selected Answer:** AE

A: The setting is available only on capacity and not tenant. <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>  
E: Yes to fulfil requirement: "Power BI Desktop to create and publish a report to the Power BI service"

B: Not correct as requirement says that we already have a development workspace  
C: Incorrect as setting is available only on capacity and not tenant. <https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-connect-tools>  
D: if we use Tabular Editor we don't need .pbix file with imported dataset <https://docs.tabulareditor.com/te3/tutorials/new-pbi-model.html>  
upvoted 1 times

## Question #174

## Topic 1

You are creating a Power BI deployment pipeline that will be used to deploy a paginated report.

You need to ensure that the paginated report is updated to point to the correct dataset for each stage.

What should you configure in the deployment pipeline?

- A. a data source rule
- B. a dataflow
- C. a selective deployment
- D. a parameter rule

**Correct Answer: A**

 **MaryemSB** 1 week, 4 days ago

**Selected Answer: A**

A is the correct answer.

for paginated reports, the only option available is datasource rule

check the link <https://learn.microsoft.com/en-us/fabric/cicd/deployment-pipelines/create-rules#supported-data-sources-for-dataflow-and-dataset-rules>

upvoted 1 times

## Question #175

## Topic 1

## HOTSPOT

You deploy an 80-GB compressed data model to a Power BI Premium workspace.

You discover that the model has the following issues:

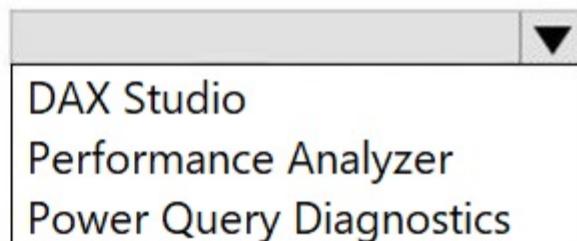
- The model recently increased excessively in size.
- Date columns are formatted inconsistently.
- Measures calculate slowly.

Which tool should you use to troubleshoot each issue? To answer, select the appropriate options in the answer area.

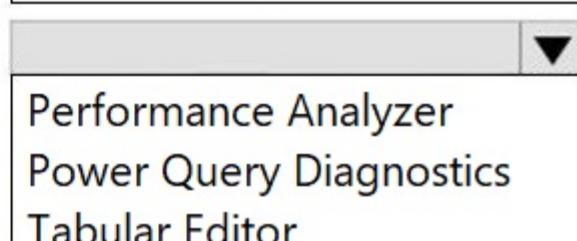
NOTE: Each correct selection is worth one point.

**Answer Area**

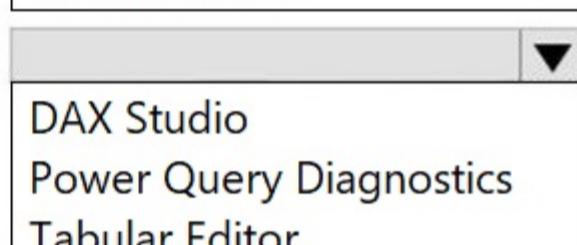
The model has recently increased excessively in size:



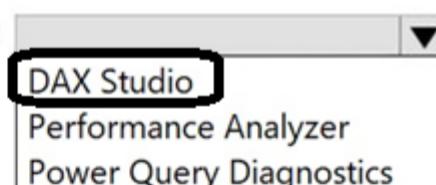
Date columns are not consistently formatted:



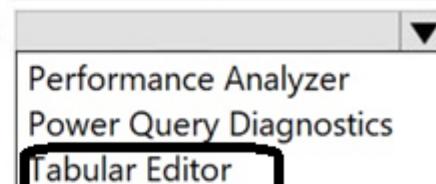
Measures are calculating slowly:

**Answer Area**

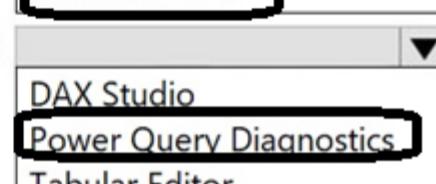
The model has recently increased excessively in size:



Date columns are not consistently formatted:



Measures are calculating slowly:

**Correct Answer:**

**dumpsowner** 4 days, 19 hours ago

Dax studio  
Power query diagnostic  
Tabular  
Realdumpscollection.com  
upvoted 1 times

**MaryemSB** 1 week, 2 days ago

DAX Studio  
Tabular Editor (using Best Practice Analyser)  
DAX Studio  
upvoted 1 times

✉️ 🚩 **MaryemSB** 4 days, 20 hours ago

check below link:

<https://datamartin.ca/2022/09/29/tools-to-analyze-the-performance-of-your-power-bi-solution/>

upvoted 1 times

## Question #176

## Topic 1

## HOTSPOT

You have a hybrid tenant in Microsoft Azure Active Directory (AD), part of Microsoft Entra, that syncs by using Azure AD Connect.

You are building a dataset by using Power BI Desktop. The dataset will be deployed to the Power BI service.

You need to implement object-level security (OLS) based on a table named User Corporate Role that contains the following two columns:

- User: Contains user identities synced from on-premises Active Directory in the form of Domain\user
- Corporate Role: A text column

What should you use to configure OLS, and which Power BI function should you use to retrieve the user identities? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Use:

DAX Studio

Power BI Desktop

The Power BI service

Tabular Editor

Function:

USERNAME()

USEROBJECTID()

USERPRINCIPALNAME()

**Answer Area**

Correct Answer:

Use:

DAX Studio

Power BI Desktop

The Power BI service

Tabular Editor

Function:

USERNAME()

USEROBJECTID()

USERPRINCIPALNAME()

  Serhiib 1 week, 5 days ago

It is true

upvoted 1 times

## Question #177

## Topic 1

## HOTSPOT

You have a Power BI model that contains three tables named Sales, Marketing, and Delivery. The Sales table relates to the Marketing and Delivery tables. The Marketing and Delivery tables do NOT relate to each other.

You need to create a measure to meet the following requirements:

- Sum the values in a column named Sales[SalesAmount].
- Ensure that the tables and relationships remain unchanged.
- If a user applies a filter to a column named Marketing[Region], apply the same filter to a column named Delivery[Region].

How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
CALCULATE(
    SUM(Sales[SalesAmount]),
     CROSSFILTER
     TREATAS
     USERELATIONSHIP
     CROSSJOIN
     SELECTCOLUMNS
     VALUES
    (Marketing[Region]), Delivery[Region])
)
```

<b>Answer Area</b>	
<b>Correct Answer:</b>	<pre>CALCULATE(     SUM(Sales[SalesAmount]),     <input type="checkbox"/> CROSSFILTER     <input checked="" type="checkbox"/> TREATAS     <input checked="" type="checkbox"/> USERELATIONSHIP     <input type="checkbox"/> CROSSJOIN     <input checked="" type="checkbox"/> SELECTCOLUMNS     <input type="checkbox"/> VALUES     (Marketing[Region]), Delivery[Region]) )</pre>

  **MaryemSB** 2 weeks, 2 days ago

Treatas and Values  
<https://learn.microsoft.com/en-us/dax/treatas-function>  
upvoted 1 times

  **Cata23** 1 month, 1 week ago

The correct answer is: TREATAS and VALUES  
upvoted 4 times

## Question #178

## Topic 1

## HOTSPOT

You use Power Query Editor to transform data.

You need to create a function named ConvertF2C that accepts a temperature value in Fahrenheit and returns a temperature value in Celsius.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

```
(TempC as number) =>
(TempF as number) =>
Source =
let
    TempC = (TempF - 32) * 5 / 9
in
```

```
ConvertF2C
TempC
TempF
```

**Answer Area**

```
(TempC as number) =>
(TempF as number) =>
Source =
```

Correct Answer:

```
let
    TempC = (TempF - 32) * 5 / 9
in
```

```
ConvertF2C
TempC
TempF
```

✉  **MaryemSB** 1 week, 4 days ago

Source

TempC

<https://datamadness.medium.com/how-to-write-functions-in-power-query-4a29302760ce>

upvoted 1 times

✉  **MaryemSB** 1 week, 2 days ago

I correct myself:

First is (TempF as number) since TempF should be passed as a parameter

Second, not sure but it should be TempC to retrieve the result of expression from the "let" statement to the "in" statement

upvoted 1 times

## Question #179

Topic 1

You have a Power BI dataflow named DF1 that contains the following columns:

- OrderID
- SaleDate
- ProductID
- SalesAmount
- ProductCategory

You create a Power BI dataset named DS1 that uses DF1 as a data source. DS1 creates an aggregated view of the data in DF1. The view contains the following columns:

- SaleMonth
- SalesAmount
- ProductCategory

You need to minimize how long it takes to refresh DS1.

What should you do first?

- A. Add a computed entity to DF1.
- B. Create a custom function in DS1.
- C. Create a linked entity in DF1.
- D. Add a computed column to DS1.

**Correct Answer: D**

✉  **MaryemSB** 2 weeks, 2 days ago

**Selected Answer: A**

"To perform in-storage computations, you first must create the dataflow and bring data into that Power BI dataflow storage. After you have a dataflow that contains data, you can create computed tables, which are tables that do in-storage computations."

<https://learn.microsoft.com/en-us/power-query/dataflows/computed-tables>

upvoted 1 times

✉  **Qordata** 3 weeks ago

**Selected Answer: A**

Computed Table/Entity would help to reduce the refresh time of dataset

<https://learn.microsoft.com/en-us/power-query/dataflows/computed-tables>

upvoted 1 times

## Question #180

## Topic 1

## HOTSPOT

You have a deep neural network (DNN) machine learning model named Model1 and an Azure Synapse Analytics workspace named Workspace1.

You need to score the data in Workspace1 by using Model1 and Transact-SQL code.

Which Transact-SQL function should you use to score the data, and which format should you use for Model1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Function:

- INTERSECT
- LEAD
- NTILE
- PREDICT

Format:

- MLeap
- MLModel
- ONNX
- PMML
- Protobuf

**Answer Area**

Function:

- INTERSECT
- LEAD
- NTILE
- PREDICT

Correct Answer:

Format:

- MLeap
- MLModel
- ONNX
- PMML
- Protobuf

  **MaryemSB** 1 week, 4 days ago

Predict  
ONNX

<https://learn.microsoft.com/en-us/sql/t-sql/queries/predict-transact-sql?view=sql-server-ver16>  
upvoted 1 times

## Question #181

## Topic 1

You have a Power BI dataset that has only the necessary fields visible for report development.

You need to ensure that only 25 fields are available when end users personalize visuals.

What should you do?

- A. From Tabular Editor, create a new perspective.
- B. From Tabular Editor, create a new role.
- C. Hide all the fields in the dataset.
- D. Configure object-level security (OLS).

**Correct Answer: A**

## Question #182

## Topic 1

You have the following code in a cell in an Azure Synapse notebook.

```
# insert command here
new_rows = [('CA',22,45000), ('WA',35,65000), ('WA',50,85000)]
demo_df = spark.createDataFrame(new_rows, ['state', 'age', 'salary'])
demo_df.createOrReplaceTempView('demo_df')
```

You need to replace the comment on the first line of the code with the correct magic command.

Which magic command should you use?

- A. %%sparkr
- B. %%pyspark
- C. %%spark
- D. %%sql

**Correct Answer: B**

## Question #183

## Topic 1

You have a Power BI report that contains a single page. The page contains two line charts and one bar chart.

You need to ensure that users can perform the following tasks for all three visuals:

- Switch the measures used in the visuals.
- Change the visual type.
- Add a legend.

The solution must minimize development effort.

What should you do?

- A. Enable personalization for each visual.
- B. Enable personalization for the report.
- C. Create a bookmark for each acceptable combination of visual type, measure, and legend in the bar chart.
- D. Edit the interactions between the three visuals.

**Correct Answer: B**

## Question #184

## Topic 1

You have an Apache Spark notebook that contains PySpark code and is used to explore data in an Azure Synapse Analytics workspace.

You need to create data visualizations in the notebook by using built-in libraries.

Which two libraries can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Gleam
- B. Plotly
- C. Seaborn
- D. Matplotlib

**Correct Answer: BD**

  **MaryemSB** 1 week, 4 days ago

**Selected Answer: CD**

same as Question 58  
upvoted 1 times

  **Zekes** 1 month, 1 week ago

**Selected Answer: CD**

Answer is Seaborn and Matplotlib  
<https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/apache-spark-data-visualization-tutorial#visualize-data>  
upvoted 3 times

## Question #185

## Topic 1

HOTSPOT

You have an Azure Synapse Analytics workspace that contains an Apache Spark pool.

You create a notebook and configure a cell that runs the following SparkSQL query.

```
SELECT ProductID, ProductName, Category
```

From products

You need to create a column chart by using the built-in charting capability. The solution must visualize the distribution of product IDs across product categories.

How should you complete the column chart? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Key:	<input type="checkbox"/> Category <input type="checkbox"/> ProductID <input type="checkbox"/> ProductName
Values:	<input type="checkbox"/> Category <input type="checkbox"/> ProductID <input type="checkbox"/> ProductName
Aggregation:	<input type="checkbox"/> Count <input type="checkbox"/> Max <input type="checkbox"/> Sum

**Answer Area****Correct Answer:**

Key:	<input type="checkbox"/> Category <input checked="" type="checkbox"/> ProductID <input type="checkbox"/> ProductName
Values:	<input type="checkbox"/> Category <input checked="" type="checkbox"/> ProductID <input type="checkbox"/> ProductName
Aggregation:	<input type="checkbox"/> Count <input checked="" type="checkbox"/> Max <input type="checkbox"/> Sum