

Implementing Analytics Solutions Using Microsoft Fabric (beta)

1. You need to ensure that Contoso can use version control to meet the data analytics requirements and the general requirements.

What should you do?

A. Store at the semantic models and reports in Data Lake Gen2 storage.

B. Modify the settings of the Research workspaces to use a GitHub repository.

C. Modify the settings of the Research division workspaces to use an Azure Repos repository.

D. Store all the semantic models and reports in Microsoft OneDrive.

Answer(s): C

2. HOTSPOT (Drag and Drop is not supported)

You need to recommend a solution to group the Research division workspaces.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Grouping method: ▼
Capacity
Domain
Tenant

Tool: ▼
OneLake data hub
The Fabric Admin portal
The Microsoft Entra admin center

A. See Explanation section for answer.

Answer(s): A

3. You need to refresh the Orders table of the Online Sales department. The solution must meet the semantic model requirements.

What should you include in the solution?

A. an Azure Data Factory pipeline that executes a Stored procedure activity to retrieve the maximum value of the OrderID column in the destination lakehouse

B. an Azure Data Factory pipeline that executes a Stored procedure activity to retrieve the minimum value of the OrderID column in the destination lakehouse

C. an Azure Data Factory pipeline that executes a dataflow to retrieve the minimum value of the OrderID column in the destination lakehouse

D. an Azure Data Factory pipeline that executes a dataflow to retrieve the maximum value of the OrderID column in the destination lakehouse

Answer(s): D

4. Which syntax should you use in a notebook to access the Research division data for Productline1?

A. `spark.read.format("delta").load("Tables/productline1/ResearchProduct")`

B. `spark.sql("SELECT * FROM Lakehouse1.ResearchProduct")`

C. `external_table('Tables/ResearchProduct')`

D. `external_table(ResearchProduct)`

Answer(s): B

5. You need to recommend which type of Fabric capacity SKU meets the data analytics requirements for the Research division.

What should you recommend?

A. A

B. EM

C. P

D. F

Answer(s): D

6. HOTSPOT (Drag and Drop is not supported)

You need to migrate the Research division data for Productline1. The solution must meet the data preparation 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

```
df=spark.read.format('csv').options(header="true",inferSchema="true").load("fs1@storage1.dfs.core.window  
df.write.mode("overwrite").format("
```

Dropdown menu with options: csv, delta, parquet

Dropdown menu with options: productline1, Tables/productline1, Tables/research/productline1

A. See Explanation section for answer.

Answer(s): A

7. What should you use to implement calculation groups for the Research division semantic models?

A. Microsoft Power BI Desktop

B. the Power BI service

C. DAX Studio

D. Tabular Editor

Answer(s): B

8. HOTSPOT (Drag and Drop is not supported)

Which workspace role assignments should you recommend for ResearchReviewersGroup1 and ResearchReviewersGroup2? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

ResearchReviewersGroup1:

ResearchReviewersGroup2:

A. See Explanation section for answer.

Answer(s): A

9. HOTSPOT (Drag and Drop is not supported)

You need to assign permissions for the data store in the AnalyticsPOC workspace. The solution must meet the security requirements.

Which additional permissions should you assign when you share the data store? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

DataEngineers:

DataAnalysts:

DataScientists:

A. See Explanation section for answer.

Answer(s): A

10. HOTSPOT (Drag and Drop is not supported)

You need to create a DAX measure to calculate the average overall satisfaction score.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
Rolling 12 Overall Satisfaction =  
VAR NumberOfMonths = 12  
VAR LastCurrentDate = MAX ( 'Date' [Date] )  
VAR Period = DATESINPERIOD ( 'Date' [Date], LastCurrentDate,  
- NumberOfMonths, MONTH )  
VAR Result =  
CALCULATE (  
    AVERAGE('Survey'[Response Value]),  
    AVERAGEA('Question'[Question Text]),  
    AVERAGEX(VALUE('Survey'[Customer Key]),  
    LastCurrentDate,  
    NumberOfMonths,  
    Period,  
    'Survey Question'[Question Title] = "Overall Satisfaction"  
)  
RETURN  
    Result
```

A. See Explanation section for answer.

Answer(s): A

11. HOTSPOT (Drag and Drop is not supported)

You need to resolve the issue with the pricing group classification.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
CREATE [ ] [dbo].[ProductsWithPricingGroup]  
    FUNCTION  
    PROCEDURE  
    TABLE  
    VIEW  
AS  
  
SELECT ProductId,  
    ProductName,  
    ProductCategory,  
    ListPrice,  
    CASE  
    COALESCE  
    IIF  
    SET  
    WHEN ListPrice <= 50 THEN 'low'  
    WHEN(ListPrice > 50 AND ListPrice < 1000) THEN 'medium'  
    WHEN(ListPrice >= 50 AND ListPrice < 1000) THEN 'medium'  
    WHEN ListPrice BETWEEN 50 AND 1000) THEN 'medium'  
    WHEN ListPrice > 1000 THEN 'high'  
    END AS PricingGroup  
FROM dbo.Products
```

A. See Explanation section for answer.

Answer(s): A

12. What should you recommend using to ingest the customer data into the data store in the AnalyticsPOC workspace?

A. a stored procedure

B. a pipeline that contains a KQL activity

C. a Spark notebook

D. a dataflow

Answer(s): D

13. Which type of data store should you recommend in the AnalyticsPOC workspace?

A. a data lake

B. a warehouse

C. a lakehouse

D. an external Hive metastore

Answer(s): C

14. You need to recommend a solution to prepare the tenant for the PoC.

Which two actions should you recommend performing from the Fabric Admin portal? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

A. Enable the Users can try Microsoft Fabric paid features option for the entire organization.

B. Enable the Users can try Microsoft Fabric paid features option for specific security groups.

C. Enable the Allow Azure Active Directory guest users to access Microsoft Fabric option for specific security groups.

D. Enable the Users can create Fabric items option and exclude specific security groups.

E. Enable the Users can create Fabric items option for specific security groups.

Answer(s): B E

15. HOTSPOT (Drag and Drop is not supported)

You need to design a semantic model for the customer satisfaction report.

Which data source authentication method and mode should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Authentication method:
Basic authentication
Service principal authentication
Single sign-on (SSO) authentication

Mode:
Direct Lake
DirectQuery
Import

A. See Explanation section for answer.

Answer(s): A

16. You need to implement the date dimension in the data store. The solution must meet the technical requirements.

What are two ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Populate the date dimension table by using a dataflow.
- B. Populate the date dimension table by using a Copy activity in a pipeline.
- C. Populate the date dimension view by using T-SQL.
- D. Populate the date dimension table by using a Stored procedure activity in a pipeline.

Answer(s): C D

17. You need to ensure the data loading activities in the AnalyticsPOC workspace are executed in the appropriate sequence. The solution must meet the technical requirements.

What should you do?

- A. Create a dataflow that has multiple steps and schedule the dataflow.
- B. Create and schedule a Spark notebook.
- C. Create and schedule a Spark job definition.
- D. Create a pipeline that has dependencies between activities and schedule the pipeline.

Answer(s): D

18. You have a Fabric warehouse that contains a table named Staging.Sales. Staging.Sales contains the following columns.

Name	Data type	Nullable
ProductID	Integer	No
ProductName	Varchar(30)	No
SalesDate	Datetime2(6)	No
WholesalePrice	Decimal(18,2)	Yes
Amount	Decimal(18,2)	Yes

You need to write a T-SQL query that will return data for the year 2023 that displays ProductID and ProductName and has a summarized Amount that is higher than 10,000.

Which query should you use?

- A.
- B.
- C.
- D.

Answer(s): A

19. HOTSPOT (Drag and Drop is not supported)

You have a data warehouse that contains a table named Stage.Customers. Stage.Customers contains all the customer record updates from a customer relationship management (CRM) system. There can be multiple updates per customer.

You need to write a T-SQL query that will return the customer ID, name, postal code, and the last updated time of the most recent row for each customer ID.

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

```

WITH CUSTOMERBASE AS (
    SELECT [CustomerID]
    , [CustomerName]
    , [PostalCode]
    , [LastUpdated]
    , x =  OVER (PARTITION BY CustomerID
    ORDER BY LastUpdated DESC)
    FROM [LakehousePOC].[dbo].[CustomerChanges]
)
SELECT CustomerID, CustomerName, PostalCode, LastUpdated
FROM CUSTOMERBASE

Having Max(LastUpdated) = 1
WHERE LastUpdated = Max(LastUpdated)
WHERE X = 1

```

A. See Explanation section for answer.

Answer(s): A

20. HOTSPOT (Drag and Drop is not supported)

You have a Fabric tenant.

You plan to create a Fabric notebook that will use Spark DataFrames to generate Microsoft Power BI visuals. You run the following code.

```

from powerbiclient import QuickVisualize, get_dataset_config, Report

PBI_visualize = QuickVisualize(get_dataset_config(df))
PBI_visualize

```

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 code embeds an existing Power BI report.	<input type="radio"/>	<input type="radio"/>
The code creates a Power BI report.	<input type="radio"/>	<input type="radio"/>
The code displays a summary of the DataFrame.	<input type="radio"/>	<input type="radio"/>

A. See Explanation section for answer.

Answer(s): A
