

# Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI

1. 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

**Answer(s): B**

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2. 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

**Answer(s): B D**

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3. DRAG DROP (Drag and Drop is not supported)

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.

Select and Place:

**Actions**

**Answer Area**

Create an Apache Spark data source.

Merge columns.

Create a web data source.

Expand the attributes.

Publish the model.



A. See Explanation section for answer.

**Answer(s): A**

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4. DRAG DROP (Drag and Drop is not supported)

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.

Select and Place:

**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.



A. See Explanation section for answer.

**Answer(s):** A

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5. 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

**Answer(s):** D

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6. 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 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.

**Answer(s):** D

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7. 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.

**Answer(s):** C D

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**8. HOTSPOT** (Drag and Drop is not supported)

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 floa
```

- AS
- CONTAINS
- FROM
- GROUP BY
- WITH

A. See Explanation section for answer.

**Answer(s):** A

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**9. DRAG DROP** (Drag and Drop is not supported)

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.

Select and Place:

### 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.



A. See Explanation section for answer.

Answer(s): A

10. 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.

Answer(s): D

11. DRAG DROP (Drag and Drop is not supported)

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.

Select and Place:

### Actions

### Answer Area

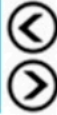
From Power BI Desktop, publish the dataset to the Sales Analytics workspace.

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.



A. See Explanation section for answer.

Answer(s): A

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12. 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 Customers With Product Score tables.

D. In the Power BI datasets, apply sensitivity labels to the columns in the Customer and Customers With Product Score tables.

E. From the Power BI Admin portal, set Make certified content discoverable to Enabled.

Answer(s): A B C

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13. 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.

**Answer(s): B**

14. What should you configure in the deployment pipeline?

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

**Answer(s): D**

15. HOTSPOT (Drag and Drop is not supported)

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            |
| FLOAT          |
| NVARCHAR(1000) |
| VARBINARY(max) |

 = (

    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.Customer                  |
| dbo.CustomerPurchases         |
| dbo.CustomersWithProductScore |
| dbo.Product                   |

 AS d)

WITH (score FLOAT) AS p;

```

A. See Explanation section for answer.

Answer(s): A

16. HOTSPOT (Drag and Drop is not supported)

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, 

	▼
--	---

 ), 1)

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

VAR BasketsWithAndProducts =

	▼
CALCULATE(	
CALCULATABLE(	
INTERSECT(	
KEEPFILTERS(	

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

A. See Explanation section for answer.

Answer(s): A

17. 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.

**Answer(s):** C

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**18.** 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.

**Answer(s):** B D

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**19. HOTSPOT** (Drag and Drop is not supported)

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 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.

A. See Explanation section for answer.

**Answer(s):** A

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**20. HOTSPOT** (Drag and Drop is not supported)

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  
JSON\_VALUE  
PARSE

BULK 'https://mydatalake.dfs.core.windows.net/User

▼  
FORMAT = 'csv',  
FORMAT = 'json',  
FORMAT = 'parquet',

```
    FIELDTERMINATOR = '0x0b',
```

```
    FIELDQUOTE = '0x0b',
```

```
    ROWTERMINATOR = '0x0b'
```

```
    ) WITH (doc NVARCHAR(MAX)) as rows
```

A. See Explanation section for answer.

Answer(s): A

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