



Microsoft

Exam Questions 70-470

Recertification for MCSE: Business Intelligence

Version:Demo

1. You need to develop a BISM that meets the business requirements for ad-hoc and daily operational analysis. You must minimize development effort.

Which development approach and mode should you use?

- A. Develop a tabular project and configure the model with the DirectQuery mode setting on and the project query mode set to DirectQuery.
- B. Develop a tabular project and configure the model with the DirectQuery mode setting on and the project query mode set to In-Memory with DirectQuery.
- C. Develop a multidimensional project and configure the model with the DirectQuery mode setting off.
- D. Develop a multidimensional project and configure the cube to use hybrid OLAP (HOLAP) storage mode.

Answer: C

Explanation:

/ After the upgrade users must be able to perform the following tasks:

/ Ad-hoc analysis of data in the SSAS databases by using the Microsoft Excel PivotTable client (which uses MDX).

/ Daily operational analysis by executing a custom application that uses ADOMD.NET and existing Multidimensional Expressions (MDX) queries.

/ Deploy a data model to allow the ad-hoc analysis of data. The data model must be cached and source data from an OData feed.

We cannot use DirectQuery mode so C is the only answer that will provide the required caching.

When a model is in DirectQuery mode, it can only be queried by using DAX. You cannot use MDX to create queries. This means that you cannot use the Excel Pivot Client,

because Excel uses MDX.

2. You need to use SQL Server Management Studio (SSMS) to make the SSAS databases available for application testing.

What should you do?

- A. Restore the SSAS databases from the latest backup to SSAS01.
- B. Script the databases as a Create script to a new window and then execute the script on SSAS01.
- C. Detach the SSAS databases from the SSASCluster, and then attach them to SSAS01.
- D. Use the Import/Export Wizard to copy the databases from the production server to the development server.

Answer: A

3. You need to use Reporting Services Configuration Manager to configure SSRS to complete the installation on SSRS02.

What should you do? (Each correct answer presents a partial solution. Choose all that apply.)

- A. Change the encryption key.
- B. Specify the execution account.
- C. Join the scale-out deployment.
- D. Set the Report Server Web Service URL.
- E. Set the Report Manager URL.
- F. Delete the encryption key.

Answer: A,B,E

Explanation: A: We need to restore a copy of the encryption key from SSRS01. This step is necessary for enabling reversible encryption on pre-existing connection strings and credentials that are already in the report server database.

B: Reporting Services provides a special account that is used for unattended report processing and for sending connection requests across the network. The account is used in the following ways:

/ Send connection requests over the network for reports that use database authentication, or connect to external report data sources that do not require or use authentication.

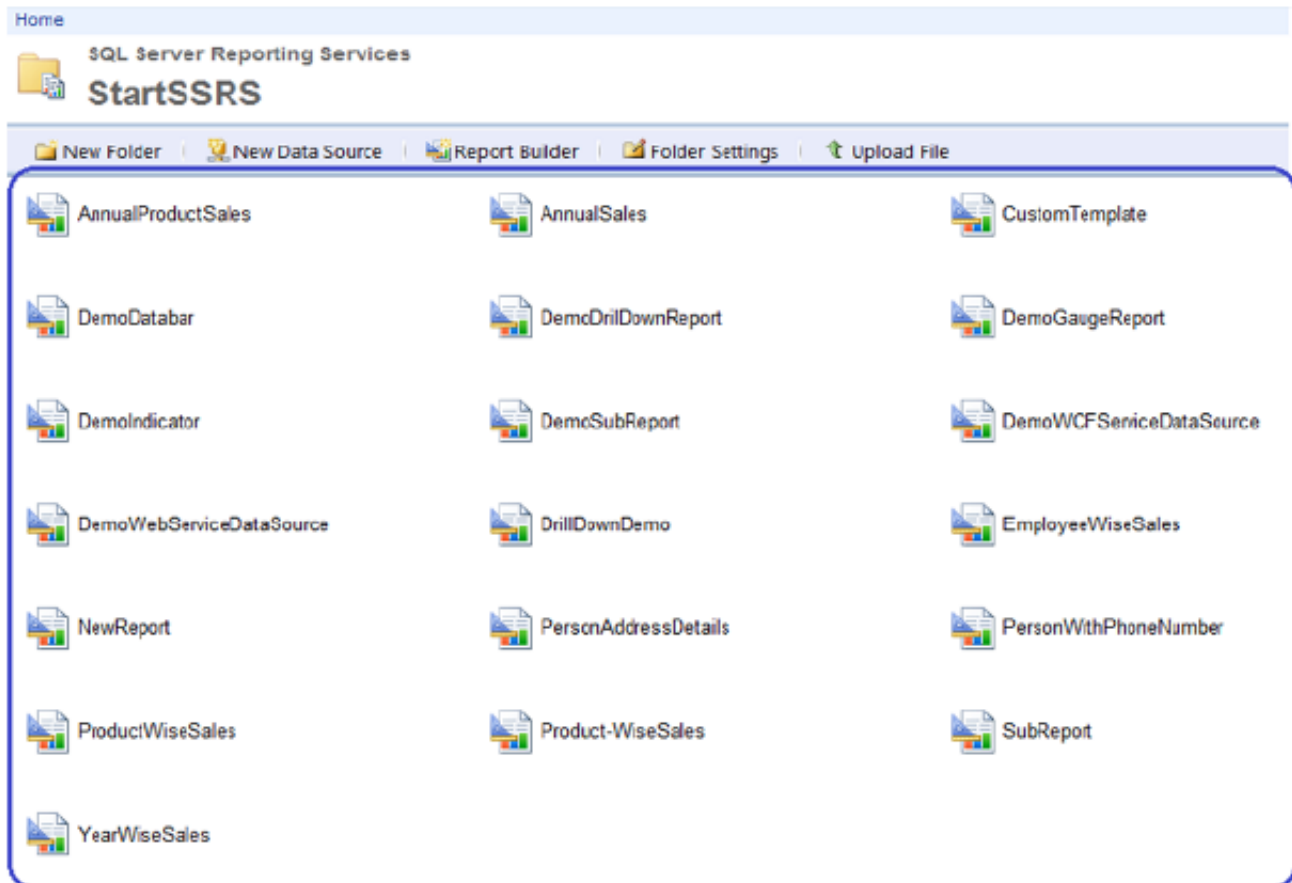
/ Retrieve external image files that are used in report. If you want to use an image file and the file cannot be accessed through Anonymous access, you can configure the unattended report processing account and grant the account permission to access the file.

E: Example:

1. First of all open Internet Explorer and go to Report Manager URL, which is something like below:

<http://string-pc/Reports2012>

2. Click on your SSRS project. So now it will show you the list of reports which are deployed on your report server.



3. Now click on down arrow on the report which you want to subscribe and select Manage. Etc.

* From Scenario:

/ A new server named SSRS02 has been joined to the domain, SSRS02 will host a single-server deployment of SSRS so that snapshots of critical reports are accessible during the upgrade.

/ You have the following requirements for SSRS02:

Replicate the SSRS01 configuration.

Ensure that all current reports are available on SSRS02.

Minimize the performance impact on SSRS01.

/ In preparation for the upgrade, the SSRS-related components have been installed on the new SSRS02 server by using the Reporting Services file-only installation mode. The Reporting Services databases have been restored from SSRS01 and configured appropriately.

/ SSRS02 is the recovery server and is running the same version of SSRS as SSRS01. The report server configuration files, custom assemblies, and extensions on SSRS02 are manually synchronized with SSRS01.

4. You need to design the recovery strategy for SSRS01.

What should the strategy include? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Re-create the SQL Server Agent jobs that are used to trigger schedules.
- B. Restore the ReportServer and ReportServerTempDB databases with recovery.
- C. Restore the ReportServer and ReportServerTempDB databases with no recovery.
- D. Restore the msdb database.
- E. Restore the Report Server encryption key.
- F. Restore the database encryption key.

Answer: A,B,E

5. You need to re-establish subscriptions on SSRS01.

What should you do?

- A. Start the SQL Server Agent on SSRS01.
- B. Restore the ReportServer database.
- C. Restore the ReportServerTempDB database.
- D. Use the SQL Server Configuration Manager to reset the SQL Service account credentials.

Answer: A

6. You need to perform the pre-upgrade database backup operation by using SQL Server Management Studio (SSMS).

How should you configure the backup options?

- A. Select the Apply compression check box. Select the Encrypt backup file check box and supply a password.
- B. Clear the Apply compression check box. Select the Encrypt backup file check box and supply a password.
- C. Clear the Apply compression check box. Clear the Encrypt backup file check box.
- D. Select the Apply compression check box. Clear the Encrypt backup file check box.

Answer: D

7. You need to re-establish subscriptions on SSRS01. What should you do?

- A. Manually failover the active node.
- B. Install prerequisites and upgrade shared components on Node1 and Node2.

- C. Generate a SQL Server 2012 configuration file by running the SQL Server Setup executable.
- D. Upgrade Node1 by using the SQL Server 2012 Upgrade wizard.

Answer: A

Explanation:

SSRS reports are scheduled by SQL server Agent jobs. Start the SQL Server Agent on SSRS01.

8. You need to implement the Customer Sales and Manufacturing data models.

What should you do? (Each correct answer presents a partial solution. Choose all that apply.)

- A. Use the Database Synchronization Wizard to upgrade the database to tabular mode.
- B. Use SQL Server Integration Services (SSIS) to copy the database design to the SSAS instance, and specify tabular mode as the destination.
- C. Use SQL Server Data Tools (SSDT) to redevelop and deploy the projects.
- D. Use the current SSAS instance.
- E. Install a new instance of SSAS in tabular mode.

Answer: C,E

Explanation:

C: Tabular models are authored in SQL Server Data Tools (SSDT) using new tabular model project templates. You can import data from multiple sources, and then enrich the model by adding relationships, calculated columns, measures, KPIs, and hierarchies. Models can then be deployed to an instance of Analysis Services where client reporting applications can connect to them. Deployed models can be managed in SQL Server Management Studio just like multidimensional models. They can also be partitioned for optimized processing and secured to the row-level by using role based security.

E: If you are installing Analysis Services to use the new tabular modeling features, you must install Analysis Services in a server mode that supports that type of model. The server mode is Tabular, and it is configured during installation. After you install the server in this mode, you can use it host solutions that you build in tabular model designer. A tabular mode server is required if you want tabular model data access over the network.

* From scenario: / Deploy a data model to allow the ad-hoc analysis of data. The data model must be cached and source data from an OData feed. / All SSAS databases other than the Research database must be converted to tabular BI Semantic Models (BISMs) as part of the upgrade to SSAS 2012. The Research team must have access to the Research database for modeling throughout the upgrade. To facilitate this, you detach the Research database and attach it to SSAS01.

* The Business Intelligence Semantic Model (BISM) is a single unified BI platform which has both multi-dimensional as well as tabular data modeling capabilities to offer best of both worlds and choice for the developer.

Reference: Install Analysis Services in Tabular Mode

Reference: Tabular Modeling (SSAS Tabular)

9. You need to configure security for the SSRS instance on SSRS01 to connect to SSAS and minimize downtime.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Register a service principal name for the Report Server service.
- B. Register a service principal name for the Analysis Services service.
- C. Restart the IIS service.
- D. Configure SSRS01 to use the Negotiate authentication type.
- E. Configure SSRS01 to use the Custom authentication type.

Answer: A,D

Explanation: A (not B): If you are deploying Reporting Services in a network that uses the Kerberos protocol for mutual authentication, you must create a Service Principal Name (SPN) for the Report Server service if you configure it to run as a domain user account.

D (not E):

* See step 6 below.

To register an SPN for a Report Server service running as a domain user

Install Reporting Services and configure the Report Server service to run as a domain user account. Note that users will not be able to connect to the report server until you complete the following steps.

Log on to the domain controller as domain administrator.

Open a Command Prompt window.

Copy the following command, replacing placeholder values with actual values that are valid for your network:

Setspn -a http/.

Run the command.

Open the RsReportServer.config file and locate the

section. Addas the first entry in this section to enable

NTLM.

* RSWindowsNegotiate. If you initially set the Windows service account for the report server to NetworkService or LocalSystem in Reporting Services Configuration Manager, RSWindowsNegotiate is added to the RSReportServer.config file as the default setting. With this setting, the report server can accept requests from client applications requesting Kerberos or NTLM authentication. If Kerberos is requested and the authentication fails, the report server switches to NTLM authentication and prompts the user for credentials unless the network is configured to manage authentication transparently.

Using RSWindowsNegotiate is your best option because it provides the greatest flexibility for multiple clients in an intranet environment.

Not C: IIS is not mention in this scenario.

Note:

* From scenario:

/ A single-server deployment of SQL Server 2008 R2 Reporting Services (SSRS) in native mode is installed on a server named SSRS01. The Reporting Server service is configured to use a domain service account.

Reference: Register a Service Principal Name (SPN) for a Report Server

10. You need to roll back the compatibility level of the Research database.

What should you do?

- A. Restore a backup of the previous version of the database.
- B. Use an ALTER DATABASE statement to set the compatibility option.
- C. Change the CompatibilityLevel property in the XMLA script, and then execute the script.
- D. In SQL Server Management Studio (SSMS), change the compatibility level in the database properties.

Answer: A

11. You need to implement the security requirement for the sales representatives.

Which MDX expression should you use?

- A. `Exists([Customer].[Customer Number].Members, StrToMember("[Employees].[Login].&[" + Username + "]"), "Security Filter")`
- B. `NonEmpty([Customer].[Customer Number].Members + StrToMember("[Employees].[Login].&[" + Username + "]")`
- C. `NonEmpty([Customer].[Customer Number].Members, (StrToMember("[Employees].[Login].&[" + Username + "]"), Measures.[Security Filter Count]))`
- D. `Exists([Customer].[Customer Number].Members + StrToMember("[Employees].[Login].&[" + Username + "]")`

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

Answer: A

12. You need to slice data by the CouponUsed, OnSale, and Closeout columns.

What should you do?

- A. Create one linked dimension for each column.
- B. Create one degenerate dimension.
- C. Create one role-playing dimension.
- D. Create one junk dimension.

Answer: D

13. You need to identify changes in the financial database.

What should you do?

- A. Add SQL Server replication to each table.
- B. Extract data from the current partition of each table.
- C. Add a timestamp column to each table.
- D. Perform a full extract of each table.
- E. Enable change data capture on each table.

Answer: E

14. You need to identify changes in the financial database.

What should you do?

- A. Add SQL Server log shipping to each table.
- B. Add SQL Server mirroring to each table.
- C. Perform a full extract of each table.
- D. Enable change data capture on each table.
- E. Create an AlwaysOn Availability Group that includes all the tables.

Answer: D

15. You need to implement the product dimension. What should you do?

- A. In the data warehouse, create a product dimension from a view that joins the Product and ProductColor tables in the financial database and contains product name and product color attributes.
- B. In the data warehouse, create a dimension table that contains product name and a dimension table that contains product color.
- C. In the data warehouse, create a product dimension table that contains product name and product color.
- D. In the cube, create a named query that joins the Product and ProductColor tables in the financial database.

Answer: C

16. You need to scale out SSAS.

What should you do?

- A. Back up the cube on ServerB and restore it on ServerC each day.
- B. Create an empty cube on ServerC and link to the objects in the cube on ServerB.
- C. Process the cube on both ServerB and ServerC each day.
- D. Synchronize the cube from ServerB to ServerC each day.

Answer: D

17. You need to implement the aggregation designs for the cube.

What should you do?

- A. Use the Usage-Based Optimization Wizard.
- B. Use the Aggregation Design Wizard.
- C. Partition the cube by month.
- D. Implement cache warming in SSAS via an SSIS package.

Answer: B

18. You need to design a cube partitioning strategy to be implemented as the cube size increases.

What should you do?

- A. Use relational OLAP (ROLAP) on all local partitions.
- B. Implement monthly remote partitions.
- C. Use multidimensional OLAP (MOLAP) on all local partitions.
- D. Implement monthly local partitions.

Answer: B

19. You need to select the appropriate storage settings for the cube.

Which settings should you choose?

- A. Relational OLAP (ROLAP) with proactive caching enabled
- B. Multidimensional OLAP (MOLAP) with proactive caching enabled and a rebuild interval of 24 hours
- C. Hybrid OLAP (HOLAP) with proactive caching disabled
- D. Hybrid OLAP (HOLAP) with proactive caching enabled

Answer: C

20. You need to choose the appropriate key to use when designing a dimension table based on the Customer table.

What should you do?

- A. Use a surrogate key.
- B. Use a natural key.

C. Use the CustomerNumber column as the key.

D. Concatenate the CustomerName and CustomerNumber columns and use the concatenated string as the key.

E. Use the CustomerName column as the key.

Answer: A

21. You need to implement security in the cube to limit the sites visible to each user.

What should you do?

A. Create an SSAS database role in the cube for each user and assign the sites each user can access to his or her database role.

B. Create an SSAS server role for each user and assign the sites each user can access to his or her server role.

C. Create an SSAS database role and define a Multidimensional Expressions (MDX) calculation to implement dynamic dimension security.

D. Create a view on the SalesTransactions table that uses the SecurityFilter and User table data to limit the sites for each user.

Answer: C

22. You need to restrict access to data in the tables in the data warehouse.

What should you do?

A. Configure column-level permissions.

B. Configure database roles.

C. Create views and grant permissions to the views.

D. Configure application roles.

Answer: C

23. You need to create the Package Activity report.

What should you do?

A. Create a log table and use SSIS event handlers to write to the log table. Then create an SSRS report that uses the log table.

B. Use the SSIS log provider for SQL Server. Then create an SSRS report that uses the sysssislog table.

C. Create a log table and build a custom log provider to write to the log table. Then create an SSRS report that uses the log table.

D. Create an SSRS report that uses thecatalog.executions and catalog.execution_data_statistics views.

Answer: D

24. You need to implement the aggregation designs for the cube.

What should you do?

A. Use the CREATE CACHE statement.

B. Use the Aggregation Design Wizard.

C. Create relational indexes on the source tables.

D. Use the Usage-Based Optimization Wizard.

Answer: B

25. You need to configure a parameter for the database connection string. What should you do?

A. Use a required package parameter.

B. Use a required project parameter.

C. Use a package configuration.

D. Use a global variable.

Answer: B

26. You need to create the factCustomerContact table.

Which type of table should you create?

A. A fact table with a non-additive measure

B. A factless fact table

C. A periodic snapshot fact table

D. A fact table with an additive measure

Answer: B

27. You need to select the appropriate model type for the Finance database. Which model type should you

select?

- A. Star schema
- B. Multidimensional
- C. Relational
- D. Tabular with PowerPivot

Answer: B

28. You need to select the appropriate mode for the Sales database.

Which mode should you select?

- A. ROLAP
- B. Direct Query
- C. MOLAP
- D. In-Memory

Answer: B

29. You need to configure permissions for the Customers dimension.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. In SQL Server Management Studio, configure the BusinessUsers role to disallow the reading of all definitions.
- B. In SQL Server Data Tools, configure the BusinessUsers role to disallow the reading of the Customers dimension definition.
- C. In SQL Server Management Studio, deny the member set for the Customers dimension data by using the Multidimensional Expressions (MDX) expression Filter([BusinessUsers]).
- D. In SQL Server Management Studio, configure the BusinessUsers role to disallow the reading of the Customers dimension definition.

Answer: B,D

30. You need to implement the date dimension in the Operations database.

What should you do?

- A. Create three database dimensions. Add each database dimension as a cube dimension by setting the

Referenced relationship type.

B. Create one database dimension. Add three cube dimensions based on the database dimension. Set the Regular relationship type for each cube dimension.

C. Create three database dimensions. Add each database dimension as a cube dimension by setting the Regular relationship type.

D. Create one database dimension. Add three cube dimensions based on the database dimension. Set the Referenced relationship type for each cube dimension.

Answer: B

31. You need to select a method of moving data from the staging tables to the factOrders table.

What type of Transact-SQL (T-SQL) statement should you use?

A. INSERT INTO...SELECT

B. SELECT...INTO

C. ALTER PARTITION-SWITCH

D. ALTER PARTITION FUNCTION

E. ALTER TABLE...SWITCH

Answer: E

32. You need to select and configure a tool for the monitoring solution. What should you choose?

A. Performance Monitor configured with the MSAS11:Storage Engine Query counter

B. Performance Monitor configured with the MSAS11:Processing counter

C. SQL Server Profiler configured with the Query Processing: Query Subcube event

D. SQL Server Profiler configured with the Queries Events: Query Begin event

Answer: A

33. You need to improve the performance of data warehouse queries.

What should you do?

A. Create columnstore indexes.

B. Create clustered indexes.

- C. Create indexed views.
- D. Create bitmap indexes.

Answer: A

34. You need to implement a strategy for efficiently storing sales order data in the data warehouse.

What should you do?

- A. Separate the factOrders table into multiple tables, one for each month that has orders, and use a local partitioned view.
- B. Separate the factOrders table into multiple tables, one for each day that has orders, and use a local partitioned view.
- C. Create daily partitions in the factOrders table.
- D. Create monthly partitions in the factOrders table.

Answer: C

35. You need to ensure that you can monitor the usage data.

What should you do?

- A. In SharePoint Central Administration, enable usage data collection.
- B. In the PowerPivot Configuration Tool, repair PowerPivot for SharePoint.
- C. In the PowerPivot Configuration Tool, upgrade PowerPivot for SharePoint.
- D. In Reporting Services Configuration Manager, enable report execution logging.

Answer: A

36. You need to ensure that managers can successfully run reports.

What should you do?

- A. Implement Kerberos delegation.
- B. Configure the SSRS data sources to store Windows credentials.
- C. Implement forms-based authentication.
- D. Configure the CustomData property in the connection strings.

Answer: A

37. You need to design the dimCustomers table.

Which design approach should you use?

- A. Reference dimension
- B. Type 2 slowly changing dimension
- C. Junk dimension
- D. Conformed dimension
- E. Type 1 slowly changing dimension

Answer: B

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