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**Exam Name: Transition Your MCITP: Business Intelligence
Developer 2008 to MCSE: Business Intelligence**

Version: Demo

Topic 1, Tailspin Toys Case A

Overview

Tailspin Toys is a multinational company that manufactures toys. Tailspin Toys has offices in five regions worldwide. The company sells toys at various retail stores. The company also sells toys directly to consumers through a web site.

The company has the following departments:

- Sales
- Distribution
- Manufacturing

Each department has an office in each region.

The fiscal calendar of Tailspin Toys runs from June to May.

The network contains a server farm that has Microsoft SharePoint Server 2013 installed.

Existing Environment

Current Database Environment

Each department uses SharePoint team sites for internal collaboration.

All manufacturing information is stored in a relational database named Manufacturing. All sales information is stored in a relational database named Sales.

Tailspin Toys deploys SQL Server Analysis Services (SSAS) and configures SSAS to use tabular models. SSAS will be used for all sales reports.

Tailspin Toys deploys a SQL Server Reporting Services (SSRS) instance in SharePoint mode.

Sales Database

A database named Sales contains two tables named FactSales and DimProduct.

FactSales contains the following columns:

- SalesID
- TotalDue
- OrderDate

DimProduct contains the following columns:

- ProductID
- ProductName
- ProductCategory
- ProductSubcategory

The Sales database contains information about the products. Most of the products have a category and a subcategory. Certain products only have a category.

A sample from DimProduct is shown in the following table.

ProductID	ProductName	ProductCategory	ProductSubcategory
1	Balsa Wood Flyer	Plane	Classic
2	Radio Controlled Flyer	Plane	Radio Controlled
3	Plastic Model	Model	Model

Requirements

Security Requirements

Tailspin Toys identifies the following security requirement:

- Sales department users must be allowed to view the sales transactions from their region only.
- Sales department users must be able to view the contents of the manufacturing reports.
- Manufacturing department users must be able to create new manufacturing reports.
- Third-party and custom solutions must NOT be deployed to the reporting server.
- Sales department users must NOT be able to create new manufacturing reports.

Planned Reporting Implementation

The manufacturing department plans to use the SSRS instance for its reports. The manufacturing department also plans to make its reports accessible from SharePoint. All manufacturing reports will use an existing database named Manufacturing.

Reporting Requirements

Tailspin Toys identifies the following reporting requirements:

- All reports must contain the company logo and a header that contains the date and the time that the report was executed.
- All reports must be created by using the SQL Server Data Tools.

Manufacturing report

You plan to create a report named ManufacturingIssues.rdl. The report has the following requirements:

- Manufacturing department managers must be able to view product issues by product type, manufacturing plant location, and error type.
- The manufacturing department managers must be able to change views by choosing options from drop-down lists.

Sales reports

You plan to create a sales report named RegionalSales.rdl. The report has the following requirements:

- Users must be able to view the report by using a web browser. By default, subcategories and product details must be hidden when using the browser.
- Users must be able to subscribe to receive the report by email. The report must be sent by email as a PDF attachment.

You plan to create a quarterly sales report named QuarterSales.rdl. The report must display sales data by fiscal quarter.

Technical Requirements

Tailspin Toys identifies the following technical requirements:

- Products in the DimProduct table that do NOT have a subcategory must use the category value as the subcategory value.

- SSRS must NOT connect to databases more frequently than once every 30 minutes.
- Sales department users must be able to use Microsoft Excel to browse tabular data.

QUESTION 1

You need to configure a hierarchy for DimProduct that meets the technical requirements. What should you do?

- A. Set ProductCategory as the parent of ProductSubcategory and set ProductSubCategory as the parent of ProductName. For ProductCategory, click Hide if Name Equals Parent
- B. Set ProductCategory as the parent of ProductSubCategory and set ProductSubcategory as the parent of ProductName. For ProductSubcategory, click Hide if Name Equals Parent.
- C. Set ProductName as the parent of ProductSubcategory and set ProductSubCategory as the parent of ProductCategory. For ProductCategory, click Hide if Name Equals Parent
- D. Set ProductName as the parent of ProductSubCategory and set ProductSubcategory as the parent of ProductCategory. For ProductSubcategory, click Hide if Name Equals Parent.

Correct Answer: B

QUESTION 2

After you deploy the RegionalSales report, you attempt to configure the subscriptions. You discover that the subscription creation screen does not display the option to deliver the report by email. You need to ensure that subscriptions can be delivered by using email. What should you do?

- A. From Central Administration, modify the properties of the Reporting Service Application.
- B. Modify the Rssrvpolicy.config file.
- C. Modify the Rsmgrpolicy.config file.
- D. From Central Administration, modify the SMTP settings of the SharePoint Server server farm.

Correct Answer: C

QUESTION 3

After you deploy the RegionalSales report, users report that they cannot see product data when they receive the reports by email. You need to ensure that the sales department managers can see all of the data. In the report, you update the Hidden property of each group. What should you do next?

- A. In When the report is initially run, select Show or hide based on an expression. Set the expression to = (Globals!RenderFormat.IsInteractive).
- B. In When the report is initially run, select Show or hide based on an expression. Set the expression to =NOT (Globals!RenderFormat.IsInteractive)
- C. In when the report is initially run, select Show.
- D. In When the report is initially run, select Hide.

Correct Answer: D

QUESTION 4

You need to recommend a solution for the sales department that meets the security requirements. What should you recommend?

- A. Create one role for all of the sales department users. Configure the role to have read access to the sales transactions. Ensure that all of the reports that access the sales transaction data restrict read access to the data from the corresponding sales department region only.
- B. Create one role for each region. Configure each role to have read access to a specific region. Add the sales department users to their corresponding role.
- C. Create one role for all of the sales department users. Add a DAX filter that reads the current user name and retrieves the user's region.
- D. Create a table for each region. Create a role for each region. Grant each role read access to its corresponding table.

Correct Answer: C

QUESTION 5

You need to ensure that all reports meet the reporting requirements. What is the best way to achieve the goal? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Create a report part. Publish the report part to a server that has SSRS installed. Add the report part to each new report that is created.
- B. Create a report part. Publish the report part to a SharePoint site. Add the report part to each new report that is created.
- C. Create a report. Copy the report to source code control. Create each new report by using the report template in source code control.
- D. Create a report. Copy the report to the PrivateAssemblies\ProjectItems\ReportProject folder in the Visual Studio directory. Create each new report by using the locally stored report

Correct Answer: D

Topic 2, Tailspin Toys Case B

Overview

Tailspin Toys is a manufacturing company that has offices across the United States, Europe, and Asia.

Tailspin Toys plans to implement a business intelligence (BI) solution for its US-based headquarters to manage the sales data, including information on customer transactions, products, sales quotas, and bonuses.

Existing Environment

Data Sources

Tailspin Toys currently stores data in line-of-business applications, relational databases, flat files, and the following:

- A Microsoft Excel spreadsheet named MarketResearch.xlsx. The spreadsheet is stored on a network drive in a directory owned by an analyst.
- A tabular model named Research.xlsx used in PowerPivot for Excel. Research.xlsx uses MarketResearch.xlsx as one of its data sources.

Network

The network contains an Active Directory forest named tailspintoys.com. The forest contains a Microsoft SharePoint Server 2013 server farm.

Implementation Plans

Databases

Tailspin Toys plans to build a star schema data warehouse named DB1. DB1 will be loaded from several different sources and will be updated nightly to contain new sales data.

DB1 will contain the following table types:

- A fact table to store transactional data, including transaction date, productID, customerID, quantity, and sales amounts.
- Dimension tables to store information about each customer, each product, each date, and each sales department user.

BI Semantic Models

Tailspin Toys plans to deploy the following BI semantic models:

- A multidimensional cube named CUBE1 that will store sales data. CUBE1 will be based on DB1 and will be hosted in SQL Server Analysis Services (SSAS). CUBE1 will contain two distinct count measures named UniqueCustomers and UniqueProducts. The measures are expected to aggregate hundreds of millions of rows from DB1.
- A tabular model named SalesCommission that will contain information about sales department user quotas and commissions.
- A tabular model named Research that will contain the migrated model from Research.xlsx.
- An instance of SSAS in tabular mode named Tabular.

Planned Reports and Queries

Tailspin Toys plans to implement the following reports and queries:

- Power View reports that use data from the Research model.
- Reports for each year the company recorded sales data that used the SalesCommission model. The reports will use the Dates_Between() and the DatesInPeriod() DAX functions in queries.

- Reports that use CUBE1 that contain the following query statements:

```
01 SELECT [Measures].[UniqueCustomers] ON 0,  
02 [Date].[Date].[Date] ON 1  
03 FROM [CUBE1]  
04 WHERE  
05 [Date].[Calendar Month].[Calendar Month].&[2012]&[1]  
  
06 SELECT [Measures].[UniqueProducts] ON 0,  
07 [Date].[Date].[Date] ON 1  
08 FROM [CUBE1]  
09 WHERE  
10 [Date].[Calendar Month].[Calendar Month].&[2012]&[1]
```

- A report named SalesByCategory that uses CUBE1 and the following query statement: (Line numbers are included for reference only.)

```
01 SELECT  
02 {[Measures].[SalesAmount]} on 0  
03 ,{(  
04 [Date].[CalendarYear].[&2012]  
05 ,  
06 [Product].[Categories].[Category].[Category1]  
07 ),(  
08 [Product].[Categories].[Category].[Category2]  
09 ,  
10 [Date].[CalendarYear].[&2012]  
11 )} ON 1  
12 from CUBE1
```

Self-Service Reporting

Tailspin Toys plans to deploy the following self-service reports:

- Reports created by sales department specialists that use CUBE1 and contain drillthroughs, maps, sparklines, and Key Performance Indicators (KPIs). The reports will be stored in a SharePoint Server document library named Library1.
- Reports created by sales department managers that use the SalesCommission model. The reports will contain visualizations that show sales department users their current sales as compared to their quota.
- Power Pivot models stored in a SharePoint Server document library that is configured as a PowerPivot Gallery named Gallery1.

Requirements

Data Security Requirements

Sales department users browsing CUBE1 must be able to view the sales data that relates to their respective customers only.

Access to reports must be controlled by using SharePoint permissions.

ETL Requirements

Tailspin Toys identifies the following extract, transformation, and load (ETL) requirements:

- Nightly updates of DB1 must support the incremental load of dimension and fact tables on separate schedules. Fact data may be loaded before dimension data.
- ETL processes must be able to update dimension attributes without losing context for historical facts.

- Referential integrity between dimension and fact tables must be maintained at all times.

Cube Performance Requirements

The design of CUBE1 must minimize the processing time of the UniqueCustomers and UniqueProducts measures.

The time required to process CUBE1 each night must be minimized.

Data Refresh Requirements

The Research model must be refreshed nightly without interrupting the workflow of the analyst.

QUESTION 6

You execute the SalesbyCategory report and receive the following error message: "Members, types, or sets must use the same hierarchies in the function." You need to ensure that the query executes successfully. Which two actions should you perform? Each correct answer presents part of the solution.

- A. Move the Date and Product clauses on line 11 to axis
- B. Move the Date clause from line 10 to line 08.
- C. Move the Measures clause on line 02 to axis 1.
- D. Move the Product clause from line 08 to line 10.

Correct Answer: CD

QUESTION 7

You are deploying the Research model. You need to ensure that the data contained in the model can be refreshed. What should you do?

- A. Upload MarketResearch.xlsx to Library1.
- B. Create a SQL Server Integration Services (SSIS) package that imports data from MarketResearch.xlsx nightly. Load the data to CUBE1.
- C. Import MarketResearch.xlsx to a new tabular database on the Tabular instance.
- D. Assign the Tabular instance service account permissions to the MarketResearch.xlsx network location.

Correct Answer: A

QUESTION 8

You need to configure Library1 to support the planned self-service reports. What is the best configuration you should add to Library1? More than one answer choice may achieve the goal. Select the BEST answer.

- A. the Report Builder Model content type
- B. the PowerPivot Gallery Document content type
- C. the Report Builder report content type
- D. the Report content type

Correct Answer: A

QUESTION 9

DRAG DROP

You need to recommend a solution to implement the data security requirements for CUBE1.

Which three actions should you recommend performing 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 a factless fact table.	
Create a perspective.	
Write an MDX expression.	
Enable Visual Totals.	
Create a SQL Server login.	

Correct Answer:

Actions	Answer Area
Create a factless fact table.	Create a SQL Server login.
Create a perspective.	Write an MDX expression.
Write an MDX expression.	Enable Visual Totals.
Enable Visual Totals.	
Create a SQL Server login.	

Topic 3, Data Architect

General Background

You are a Data Architect for a company that uses SQL Server 2012 Enterprise edition.

You have been tasked with designing a data warehouse that uses the company's financial database as the data source. From the data warehouse, you will develop a cube to simplify the creation of accurate financial reports and related data analysis.

Background

You will utilize the following three servers:

- ServerA runs SQL Server Database Engine. ServerA is a production server and also hosts the financial database.
- ServerB runs SQL Server Database Engine, SQL Server Analysis Services (SSAS) in multidimensional mode, SQL Server Integration Services (SSIS), and SQL Server Reporting Services (SSRS).
- ServerC runs SSAS in multidimensional mode.

The financial database is used by a third-party application and the table structures cannot be modified.

The relevant tables in the financial database are shown in the exhibit. (Click the Exhibit button.)

The SalesTransactions table is 500 GB and is anticipated to grow to 2 TB. The table is partitioned by month. It contains only the last five years of financial data. The CouponUsedOnSale, and Closeout columns contain only the values Yes or No. Each of the other tables is less than 10 MB and has only one partition.

The SecurityFilter table specifies the sites to which each user has access.

Business Requirements

The extract, transform, load (ETL) process that updates the data warehouse must run daily between 8: 00 P.M. and 5: 00 AM so that it doesn't impact the performance of ServerA during business hours. The cube data must be available by 8: 00 AM.

The cube must meet the following business requirements:

- Ensure that reports display the most current information available.
- Allow fast access to support ad-hoc reports and data analysis.

Business Analysts will access the data warehouse tables directly, and will access the cube by using SSRS, Microsoft Excel, and Microsoft SharePoint Server 2010 PerformancePoint Services. These tools will access only the cube and not the data warehouse.

Technical Requirements

SSIS solutions must be deployed by using the project deployment model.

You must develop the data warehouse and store the cube on ServerB. When the number of concurrent SSAS users on ServerB reaches a specific number, you must scale out SSAS to ServerC and meet following requirements:

- Maintain copies of the cube on ServerB and ServerC.
- Ensure that the cube is always available on both servers.

- Minimize query response time.

The cube must meet the following technical requirements:

- The cube must be processed by using an SSIS package.
- The cube must contain the prior day's data up to 8: 00 P.M.but does not need to contain same-day data.
- The cube must include aggregation designs when it is initially deployed.
- A product dimension must be added to the cube. It will contain a hierarchy comprised of product name and product color.

Because of the large size of the SalesTransactions table, the cube must store only aggregations- the data warehouse must store the detailed data. Both the data warehouse and the cube must minimize disk space usage.

As the cube size increases, you must plan to scale out to additional servers to minimize processing time.

The data warehouse must use a star schema design. The table design must be as denormalized as possible. The history of changes to the Customer table must be tracked in the data warehouse. The cube must use the data warehouse as its only data source.

Security settings on the data warehouse and the cube must ensure that Queries against the SalesTransactions table return only records from the sites to which the current user has access.

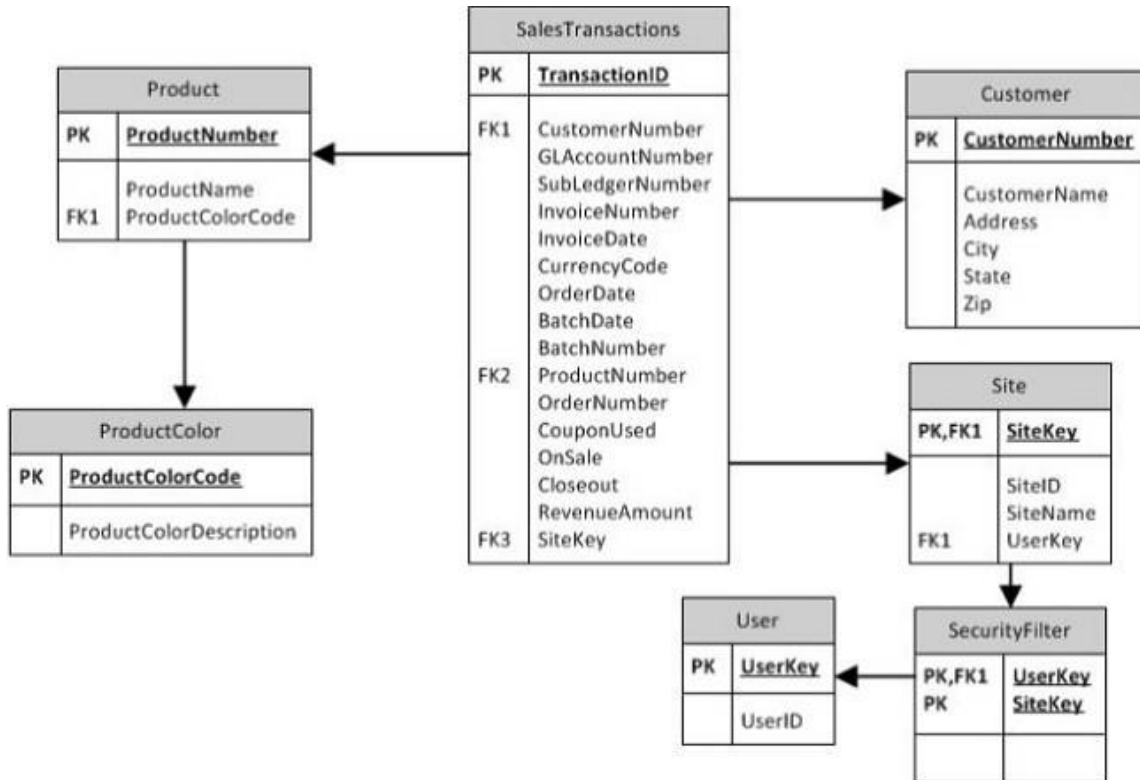
The ETL process must consist of multiple SSIS packages developed in a single project by using the least amount of effort. The SSIS packages must use a database connection string that is set at execution time to connect to the financial database. All data in the data warehouse must be loaded by the SSIS packages.

You must create a Package Activity report that meets the following requirements:

- Track SSIS package execution data (including package name, status, start time, end time, duration, and rows processed).
- Use the least amount of development effort.

Exhibit

Financial Database tables:



QUESTION 10

You need to design a cube partitioning strategy to be implemented as the cube size increases. What should you do?

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

Correct Answer: B

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70-332	70-414	70-485	70-649
70-336	70-417	70-486	70-668
70-337	70-461	70-487	70-680
70-341	70-462	70-488	70-687
70-342	70-463	70-489	70-688
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