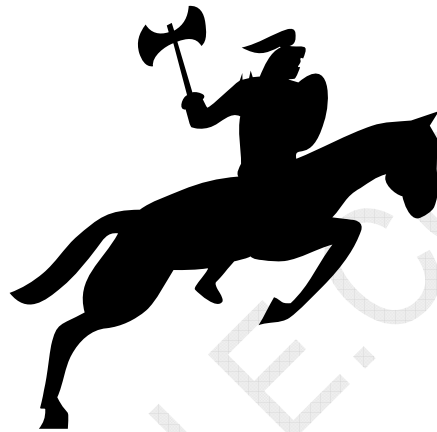


# ***Easy CramBible Lab***



**70-446**

**PRO:Design a Business Intellig  
Infrastr Usi MS SQL Serv 2005**

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**THE TOTAL NUMBER OF QUESTIONS IS 121**

**QUESTION NO: 1 BACKGROUND**

**Fabrikam, Inc, is a manufacturing company that provides components for the engineering industry, fabrikam has a sister company named contoso, Ltd,**

**Work order are processed by the following departments:**

**The Production department handles request for components that are not in stock,**

**The Warehouse department handles the storage and stock management of pre-manufactured**

**components. The Warehouse department handles the packaging of stock in the warehouse or the production department. The Distribution department handles the delivery of orders to clients. The company uses a flexible resourcing structure where individual employees can be reassigned between department. Productivity is higher when specific groups of staff members are assigned to a particular department.**

**EXISTING ENVIRONMENT**

**Fabrikam uses a Microsoft SQL Server 2005 database named FabrikamSQLDB to control and route client requests as work order to the respective department.**

**New Client and Product Order records can be added to the FabrikamSQLDB database throughout the day, these records must be reflected correctly in any reports with zero latency.**

**The FabrikamSQLDB schema is shown in the following exhibit. (Click the Case Study Exhibits button to view the FabrikamSQLDB schema.)**

**The performance of a department is measured against the following factors:**

**Time to resolve a work order  
Number of work order  
completed in a given period**

**Existing SSAS Solution**

**Fabrikam uses a live Microsoft SQL Server 2005 Analysis services (SSAS) database named**

**FabrikamASDB. At present, the company processes the Fabrikam SSAS**

solution every evening. This processing takes three hours.

The Analysis Server Query Log is enabled.

The SSAS solution contains the following objects: A data source view, The data source view within the FabrikamASDB database sources data from the FabrikamSQLDB database.

A cube named FabrikamCube, FabrikamCube exists within the FabrikamASDB database.

FabrikamCube contains the following measure groups: The Productorder measure group, This measure group is based on the ProductOrder table.

The productorder measure group has regular relationships to the client, Currency, and product dimensions. The productorder measure group uses real-time ROLAP that has no aggregations. Reports against the productorder measure group currently tend to perform poorly when aggregates are produced across a large range of data. Users have drillthrough capability to individual rows within the productorder measure group.

The productorder status measure group. This measure group is based on the productorder status table. The productorderstatus measure group has approximately 20 million rows. The productorderstatus measure group is split into the following two partitions:

The currentday partition. This partition is designed to contain all order status data for the current working day and any future-dated orders.

The historical partition, This partition is designed to contain all historical data prior to the current working day. Data within each partition is filtered by a query. Each query contains dates when the measure group was partitioned. Data older than the current working day is used within highly aggregated reports. Data for the current working day is used for individual order status reviews.

The Employeeassignment measure group. This measure group is based on the Employeeassignment table. Records are added to the Employeeassignment data table continuously throughout the day.

Fabrikamcube contains the following dimensions: A client dimension, clients are divided into three regions: North, South, and West. Each region is stored within the region attribute of the client dimension. A product dimension, The product dimension contains the productSKU and product SIZE ID attributes. An Employee dimension, The Employee

dimension is based upon the Employee table. Data can be added to the Employee table during the day.

**Security Roles** The following two security roles exist within the FabrikamASDB data base: NorthRole This security role has an allowed member set that includes clients in the North region. South and WestRole

This security role has an allowed member set that includes clients in the South and the west region. A new sales manager has joined FABrikam. The data base administrator added him to the NorthRole and to the South and WestRole. However, the database administrator does not want to move the users from other teams into new roles.\

**BUSINESS REQUIREMENTS Order Control Team** The order control team wants to report aggregated number of orders that reach the production department eachday, month, and year. The team also wants to filter this report such that it shows only holidays.

The order control team executes reports against the productorderstatus measure group. The reports should display the current data in the FabrikamSQLDB database.

#### **Accounts Team**

The accounts team must be able to sum ordervalue by individual currencies only. The team should not be able to view a client's total that sums british pounds and U.S.dollars.

#### **HR Team**

The HR director requires a report that specifies which employee is assigned to a particulae department at any given time.

The HR manager wants to improve the resource allocation process.

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#### **Packging Department**

The packaging department requires a two-column report that shows the count of orders per productSKU.

The productsSKU attribute should be ordered by the productsizedescriptor attribute.

#### **TECHNICAL REQUIREMENT**

Contoso,Ltd.requires a copy of the SSAS schema for testing purposes.

The Employeeassignment measure group must contain data that is not older than

