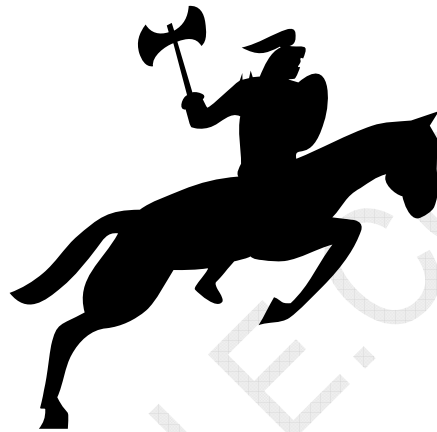


# *Easy CramBible Lab*



**70-442**

**PRO:Design & Optimize Data  
Access by Using MS SQL Serv 2005**

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**THE TOTAL NUMBER OF QUESTIONS IS 110**

**QUESTION NO: 1 BACKGROUND**

**company overview**

Tailspin toys is a regional toy store chain,with stores in 30 cities.

**Planned Changes**

The company wants to add an online store to its chain of retail stores.A prototype of the online store was developed by using SQL server 2000 .However,the IT manager wants to move to SQL Sever 2005 to take advantage of its new features.

The IT manager plans to automate certain database maintenance operations,including scripting of database objects,backup and restore activities ,and creation and maintenance of endpoints.

**Problem Statement**

The nightly processing of the sales data from each store executes very slowly.with the addition of the online store,this performance must be improved in order to complete the processing within the allotted frame.

**EXISTING ENVIRONMENT**

**Existing Application Environment**

The prototype of the online store is experiencing poor concurrency.

**Existing supporting Infrastructure**

Currently,the point of sale(POS) system for the retail stores has a SQL Server 2000 database.Tailspin

Toys has an Enterprise Resource planning(ERP) system running on UNIX that must be able to

communicate with the online store's Inventory database.

**BUSINESS REQUIREMENTS**

**General Application Solution Requirements**

The company is developing an online store that is capable of displaying pictures, prices, and information on products that are sold by Tailspin Toys.

Customers must be able to find out whether toys that are available online are also available at a physical store for pickup. The store inventory for a selected store must be queried real-time as the individual toys are displayed. Inventory quantities for a toy must all be displayed prior to processing the next toy.

Store managers often run reports that query for all sales for a given date range.

New toys are introduced at the online store only once per month.

Performance When a customer uses the online store to perform a search for toys, it should return results in 15 seconds or less.

Users can search for a toy category. The results of this search should be used for future searches by the same user, to minimize round trips to the database.

**TECHNICAL REQUIREMENTS**

Resource usage on the database server must be minimized.

The online store will have two databases named Sales and Inventory. When a sale is completed, both databases must be kept consistent with each other.

The IT department has specified that the online store will use a service-oriented architecture for data access.

**Answer: Pending. Send your suggestion to [web@crambible.com](mailto:web@crambible.com)**

**QUESTION NO: 2 You need to design the data access strategy for the Tailspin Toys online store search requirement. Which strategy should you use?**

A. System.Xml.XmlReader

- B. System.Data.SqlClient.SqlDataReader
- C. System.Data.DataSet
- D. CLR user-defined type

**Answer: C**

**QUESTION NO: 3** You are troubleshooting concurrency problems with the code that was originally developed on the SQL Server 2000 database. You discover that there are excessive read locks on important tables. You need to resolve the problem. What should you do?

- A. Set the transaction isolation level to REPEATABLE READ.
- B. Set the transaction isolation level to SERIALIZABLE.
- C. Set the ALLOW\_SNAPSHOT\_ISOLATION database option to ON.
- D. Set the READ\_COMMITTED\_SNAPSHOT database option to ON.

**Answer: D**

**QUESTION NO: 4** You need to design the user interface that will display availability to pick up items at a retail store for items that are ordered online. You also must minimize the number of connections to the database. Which data access strategy should you use?

- A. ActiveX data objects (ADO)
- B. multiple active result sets (MARS)
- C. System.Data.DataReader
- D. System.Data.DataSet

**Answer: B**

**QUESTION NO: 5** You design the following stored procedure that will be used by sales managers. **CREATE PROCEDURE StoreSales (@StartDate datetime, @EndDate datetime) AS SET TRANSACTION ISOLATION LEVEL SERIALIZABLE SELECT StoreID, TotalSales FROM Sales WHERE SaleDate BETWEEN @StartDate AND @EndDate** While tuning the query, you notice that table locks are occurring. You need to resolve the problem. What should you do?

- A. Change the isolation level to READ COMMITTED.
- B. Add a HOLDLOCK table hint to the query.
- C. Add a NOWAIT table hint to the query.

D. Add a READPAST table hint to the query.

**Answer: A**

**QUESTION NO: 6** You are designing the stored procedure that updates inventory quantities.

The stored procedure contains the following code.

```
CREATE PROCEDURE UpdateInventory (@ProductID int, @Amount int)
```

```
AS
```

```
BEGIN TRANSACTION
```

```
DECLARE @CurrentQuantity int
```

```
SELECT @CurrentQuantity = Quantity
```

```
FROM Inventory.ProductInventory
```

```
WHERE ProductID = @ProductID
```

```
UPDATE Inventory.ProductInventory
```

```
SET Product.Quantity = @CurrentQuantity + @Amount
```

```
WHERE ProductID = @ProductID
```

```
IF @@ERROR <> 0
```

```
ROLLBACK TRAN
```

```
ELSE
```

```
COMMIT TRAN
```

You discover that the ProductInventory column is occasionally updated incorrectly. You need to resolve the problem. What should you do?

- A. Add a SET TRANSACTION ISOLATION LEVEL SERIALIZABLE statement to the stored procedure.
- B. Remove the SELECT statement from the stored procedure. Perform the update using the Product.Quantity column instead of the @CurrentQuantity variable.
- C. Add a NOLOCK hint to the SELECT statement.
- D. Move the BEGIN TRANSACTION statement so that it immediately precedes the UPDATE statement.

**Answer: B**

**QUESTION NO: 7** You are designing a stored procedure that records a sale and decreases the inventory for the items that are being purchased. The stored procedure contains the following code. **CREATE PROCEDURE UpdateSalesAndInventory (@ProductID int, @quantity int) AS SET IMPLICIT\_TRANSACTION ON INSERT INTO Sales.SalesOrder Values(@ProductID, @quantity) UPDATE Inventory.ProductInventory**

```
SET Quantity = Quantity - @quantity
```

**WHERE ProductID = @ProductID** You run this stored procedure and discover that no updates are applied. You need to resolve the problem. What should you do?