

# Ssis And Ssrs Interview Questions

1. What is difference in select statement in T-SQL and MDX?
2. If you want to automate the task of building the cube and deploying it from development server to production server what will you do?
3. Can a fact table have non quantifiable columns? If yes can we merge 2 non quantifiable columns into one column in fact table.
4. How big was the size of the cube you built?
5. How can we write mdx scripts for partitioning?
6. How do you optimize performance of olap/rolap hyperactive cubes?
7. Which method did you use for partitioning of cube? Why?
8. Which method do you use for olap cube star schema or snowflake schema? Which one do you prefer? Why?
9. Differences between star and snowflake schema.
10. What is a hypercube?
11. What are conformed dimensions?
12. What is materialized view? What are its limitations?
13. What is indexed view?
14. On what basis did you partition the cube give an example for from your recent project.
15. How do you do performance tuning of the cube and mdx queries?
16. What did you do to optimize query performance of mdx ?
17. Where do you check the performance of the mdx queries?
18. What are calculated members and calculated dimensions?
19. What are slowly changing dimensions? Give an example?
20. What are KPI's?
21. What are differences between MOLAP and ROLAP?
22. What is a cube, measure, fact table, dimension table?

SSIS and SSRS interview questions are critical for candidates looking to demonstrate their knowledge and expertise in SQL Server Integration Services (SSIS) and SQL Server Reporting Services (SSRS). Both SSIS and SSRS are integral components of Microsoft SQL Server and are widely used in data management and reporting. In interviews, candidates can expect questions that not only assess their technical skills but also their problem-solving capabilities and understanding of best practices. This article will explore common interview questions for both SSIS and SSRS, categorized by various topics, and provide insights into what interviewers may be looking for in a candidate.

# Understanding SSIS

SSIS is a powerful data integration tool that allows users to create data transformation workflows. It is essential for tasks such as data migration, data warehousing, and ETL (Extract, Transform, Load) processes.

## Common SSIS Interview Questions

1. What is SSIS?

- SSIS stands for SQL Server Integration Services, a component of SQL Server designed for data migration and transformation.

2. What are the key components of SSIS?

- Control Flow: Defines the workflow of tasks.
- Data Flow: Manages the movement of data from source to destination.
- Event Handlers: Allows the management of events like errors or task completions.
- Variables: Used to store values that can be referenced in tasks and expressions.
- Connection Managers: Provide a way to connect to various data sources.

3. Can you explain the difference between Control Flow and Data Flow?

- Control Flow is responsible for the order of task execution and workflow control, while Data Flow specifically handles the extraction, transformation, and loading of data.

4. What is a Data Flow Task?

- A Data Flow Task is a specific task type in SSIS that facilitates the movement and transformation of data. It consists of sources, transformations, and destinations.

5. What are transformations in SSIS?

- Transformations are operations that modify data during the Data Flow process. Common transformations include:
  - Data Conversion
  - Lookup
  - Merge Join
  - Conditional Split
  - Aggregate

6. How can you handle errors in SSIS?

- Errors can be managed using event handlers, error outputs in Data Flow, and logging features. You can redirect error rows to a separate output or log detailed error messages.

7. What is a package in SSIS?

- A package is the core unit of work in SSIS that contains a series of tasks, connections, and configurations to perform ETL processes.

8. What is the role of the SSIS Catalog?

- The SSIS Catalog is a database that stores SSIS packages, execution logs, and other metadata. It provides features for deployment, monitoring, and management of SSIS packages.

9. How do you schedule SSIS packages?

- SSIS packages can be scheduled using SQL Server Agent, allowing users to automate the execution of packages at specified times.

## Understanding SSRS

SQL Server Reporting Services (SSRS) is a server-based report generating software system that allows users to create, deploy, and manage reports. It provides tools to create reports from a variety of data sources.

## Common SSRS Interview Questions

1. What is SSRS?

- SSRS stands for SQL Server Reporting Services, a platform designed for creating, managing, and delivering reports.

2. What are the different types of reports in SSRS?

- Tabular Reports: Simple lists of data organized in rows and columns.
- Matrix Reports: Data organized in a cross-tab format, allowing for dynamic grouping and aggregation.
- Chart Reports: Visual representations of data, such as bar charts and pie charts.
- Parameterized Reports: Reports that allow users to input parameters to filter data.

3. Can you explain the architecture of SSRS?

- The SSRS architecture consists of:
  - Report Server: The core service that processes and delivers reports.
  - Report Manager: A web-based interface for managing reports.
  - Data Sources: Locations from which SSRS retrieves data.
  - Report Definition Language (RDL): XML schema used to define reports.

4. How do you create a report in SSRS?

- Reports can be created using SQL Server Data Tools (SSDT) or Report Builder by defining data sources, designing the layout, and specifying data retrieval methods.

5. What is the difference between a shared data source and an embedded data source?

- A shared data source is a reusable data connection that can be used by multiple reports, while an embedded data source is specific to a single report.

6. What are parameters in SSRS, and how are they used?

- Parameters are dynamic values that allow users to filter report data. They can be configured to provide a list of options, default values, and can be mandatory or optional.

7. How can you improve the performance of SSRS reports?

- Performance can be enhanced by optimizing queries, using stored procedures, caching reports, and limiting the amount of data retrieved.

8. What is report subscription in SSRS?

- Report subscriptions allow users to automate the delivery of reports through email or file storage at specified intervals.

9. What are some ways to secure SSRS reports?

- Security can be implemented through role-based access control, setting permissions on reports and folders, and using Windows authentication or custom authentication methods.

## **Best Practices for SSIS and SSRS**

In addition to technical knowledge, interviewers often look for candidates who understand best practices in using SSIS and SSRS. Here are some best practices to consider:

### **SSIS Best Practices**

- Modularize Packages: Break down large packages into smaller, reusable components.
- Use Configurations: Store connection strings and other settings in configuration files to enhance maintainability.
- Error Handling: Implement robust error handling strategies to capture and log errors.
- Performance Optimization: Monitor performance and optimize data flows, transformations, and query execution.

### **SSRS Best Practices**

- Design for Usability: Ensure reports are user-friendly with clear navigation and logical layouts.
- Optimize Data Retrieval: Use efficient queries and limit the data scope to improve loading times.
- Version Control: Use version control systems to manage report changes and maintain history.
- Testing and Validation: Thoroughly test reports in different scenarios to ensure accuracy and performance.

## **Conclusion**

When preparing for interviews that focus on SSIS and SSRS interview questions, candidates should not only understand the technical aspects but also be ready to demonstrate their ability to apply best practices and problem-solving skills in real-world scenarios. Familiarity with common questions and the underlying concepts will help candidates feel more confident and prepared to tackle the challenges presented by prospective employers. By mastering both SSIS and SSRS, candidates can position themselves as valuable assets in the field of data management and reporting.

# Frequently Asked Questions

## What is SSIS and what are its primary components?

SSIS stands for SQL Server Integration Services. Its primary components include Control Flow, Data Flow, Event Handlers, and Package Management, which allow for data extraction, transformation, and loading (ETL) processes.

## What is the difference between SSIS and SSRS?

SSIS (SQL Server Integration Services) is used for data integration and workflow applications, while SSRS (SQL Server Reporting Services) is a reporting tool designed to create, manage, and deliver reports.

## How do you handle errors in SSIS?

Errors in SSIS can be handled using Event Handlers, configuring error outputs on data flow components, or by using the 'Fail Package' option to log errors and take corrective actions.

## Can you explain the role of data flow in SSIS?

The data flow in SSIS is responsible for extracting data from sources, transforming it using various transformations, and loading it into destination systems. It consists of sources, transformations, and destinations.

## What are the different types of parameters in SSIS?

In SSIS, there are three types of parameters: project parameters, package parameters, and environment variables. These parameters help in making packages dynamic and configurable.

## How can you schedule SSIS packages?

SSIS packages can be scheduled using SQL Server Agent jobs, where you can specify the execution time and frequency for the package to run automatically.

## What is a dataset in SSRS?

A dataset in SSRS is a collection of data that is retrieved from a data source and is used to populate reports. It defines the query to fetch data and can be based on SQL queries, stored procedures, or other data retrieval methods.

## How do you deploy SSRS reports?

SSRS reports can be deployed using SQL Server Data Tools (SSDT) or Report Builder. You can publish reports directly to the SSRS Report Server or export them in formats such as PDF or Excel.

# What are parameters in SSRS and how are they used?

Parameters in SSRS are used to filter data in reports and allow user input. They can be set up to take specific values, use default values, or be based on available values from a dataset.

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### **How to pass variable as a parameter in Execute SQL Task SSIS?**

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