SQL Business Intelligence Developer

Why SQL Business Intelligence Certifications ?

As companies generate more and more data, BI developers serve the critical function of bridging large volumes of inscrutable raw information with the data analysts, data scientists, product managers, and executives seeking to make sense of that information.

A business intelligence developer is responsible for presenting insights through data visualization, modeling, and reporting for non-technical stakeholders.

Audience Profile :

- The primary audience for this course are database professionals who need to fulfil a Business Intelligence Developer role.

- They will need to focus on hands-on work creating BI solutions including Data Warehouse implementation, ETL, and data cleansing.

Prerequisites:

- Experience of querying data using Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

Course Overview:

- Business intelligence (BI) development is an increasingly important role across organizations of all sizes.
- As companies generate more and more data, BI developers serve the critical function of bridging large volumes of inscrutable raw information with the data analysts, data scientists, product managers, and executives seeking to make sense of that information.
- This Implementing a SQL Data Warehouse course provides students with the knowledge and skills to extract, transform, and load (ETL) and data warehouse developers who create business intelligence (BI) solutions. Their responsibilities include data cleansing, in addition to ETL and data warehouse implementation.
- A business intelligence developer is responsible for presenting insights through data visualization, modeling, and reporting for non-technical stakeholders.
- The role of business intelligence developer typically involves Understanding business requirements and finding insights in data, Building interactive dashboards and reports, Developing workflows and KPIs, Enabling data availability for business and technical teams.
- A business intelligence developer is responsible for Develop, maintain and support ETL processes using tools such as Microsoft SSIS, Develop, deploy, and maintain BI interfaces, Create reports and extracts from SQL servers, Develop high availability and highly scalable applications, Translate business requirements and problems into technical solutions, Present information through reports and visualizations that can help an organization make informed business decisions, Document processes for future use and Work with business analysts to curate data.

In this Learning path

1. **Implementing a SQL Data Warehouse**
2. **Developing SQL Data Models**

Implementing a SQL Data Warehouse Outline:

- Module 1: Introduction to Data Warehousing
- Module 2: Planning Data Warehouse Infrastructure
- Module 3: Designing and Implementing a Data Warehouse
- Module 4: Columnstore Indexes
- Module 5: Implementing an Azure SQL Data Warehouse
- Module 6: Creating an ETL Solution
- Module 7: Implementing Control Flow in an SSIS Package
- Module 8: Debugging and Troubleshooting SSIS Packages
- Module 10: Enforcing Data Quality
- Module 11: Using Master Data Services
- Module 12: Extending SQL Server Integration Services (SSIS)
- Module 13: Deploying and Configuring SSIS Packages
- Module 14: Consuming Data in a Data Warehouse

Developing SQL Data Models Outline:

- Module 1: Introduction to Business Intelligence and Data Modeling
- Module 2: Creating Multidimensional Databases
- Module 3: Working with Cubes and Dimensions
- Module 4: Working with Measures and Measure Groups
- Module 5: Introduction to MDX
- Module 6: Customizing Cube Functionality
- Module 7: Implementing a Tabular Data Model by Using Analysis Services
- Module 8: Introduction to Data Analysis Expression (DAX)
- Module 9: Performing Predictive Analysis with Data Mining

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