INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Informatica Big Data Integration

☐ **Introduction to Informatica Big Data Integration**:

- Overview of Informatica Corporation and its product offerings.
- Introduction to Informatica Big Data Integration and its role in modern data architectures.
- Understanding the challenges of big data integration and the need for specialized tools.

☐ **Architecture and Components**:

- Overview of the architecture of Informatica Big Data Integration.
- Understanding the key components such as Informatica PowerCenter, Informatica Developer, Informatica Administrator, and various runtime components.
- Integration with different data sources and targets including traditional databases, data warehouses, and big data platforms.

☐ **Installation and Setup**:

- Installation requirements and procedures for Informatica Big Data Integration.
- Configuring connections to various data sources and targets.
- Setting up security and access controls.

☐ **Informatica PowerCenter**:

- Introduction to Informatica PowerCenter as the core ETL (Extract, Transform, Load) tool.
- Overview of PowerCenter Designer for developing ETL mappings and workflows.
- Understanding PowerCenter Workflow Manager for managing and monitoring workflows.

☐ **Informatica Developer**:

- Introduction to Informatica Developer tool for developing mappings and workflows.
- Designing data integration solutions for big data environments.
- Implementing transformations and data quality rules.

☐ **Informatica Administrator**:

- Administration tasks such as managing users, roles, and permissions.
- Monitoring and troubleshooting Informatica Big Data Integration environment.
- Performance tuning and optimization techniques.

Big Data Integration:

- Techniques for integrating and processing big data using Informatica.
- Working with various big data platforms such as Hadoop, Spark, and NoSQL databases.
- Handling complex data transformations and mappings in big data environments.

 Real-Time Data Integration:

- Overview of real-time data integration capabilities in Informatica.
- Implementing change data capture (CDC) and streaming data processing.
- Integrating with messaging systems like Apache Kafka.

 Data Quality and Governance:

- Ensuring data quality and governance in big data integration processes.
- Implementing data profiling, cleansing, and standardization.
- Managing metadata and lineage for regulatory compliance.

 Advanced Topics:

- Advanced features such as dynamic mappings, parameterization, and reusable components.
- Integrating with cloud platforms and hybrid environments.

- Data masking and encryption techniques for sensitive data.

☐ **Best Practices and Use Cases**:

- Best practices for designing and implementing data integration solutions using Informatica Big Data Integration.
- Case studies and examples demonstrating real-world use cases and success stories.