**1. What are the differences between connected lookup and unconnected lookup?**

### ****2. What is Lookup transformation?****

### 3. ****Name the different lookup cache(s)?****

### ****4.What is the difference between active and passive transformation?****

### ****5.Name the output files created by Informatica server during session running.****

### ****6. How do you differentiate dynamic cache from static cache?****

### ****7.What is the difference between STOP and ABORT options in Workflow Monitor?****

### ****8.What are the similarities and differences between ROUTER and FILTER?****

### ****9.Why is sorter an active transformation?****

### ****10.What are data driven sessions?****

### ****11. What are mapplets?****

### ****12.How can we delete duplicate rows from flat files?****

### ****13.What is parallel processing in Informatica?****

### 14.****What are the different ways to implement parallel processing in Informatica?****

**15.How do pre- and post-session shell commands function?**

**16.What can we do to improve the performance of Informatica Aggregator transformation?**

**17.How can we update a record in the target table without using Update Strategy?**

**18.What is Surrogate Key?**

**19.What is Expression Transformation?**

### 20.What is Data Warehouse?

### 21.What do you mean by dimension table

### 22.What do you understand about a fact table

### 23.What are the different types of dimension tables

### 24.What is **Slowly Changing Dimensions (SCD)**

### **What is SCD type-1,What is SCD type2 mapping?**

### 25.Differentiate between fact table and dimension table.

### 26.What is Datamart?

### 27.Explain what you mean by a star schema

### 28.What do you mean by snowflake schema

### 29.Differentiate between star schema and snowflake schema

### 30.What are the advantages of a cloud based data warehouse?

**Sample IICS Developer Job Interview Questions**

Informatica Intelligent Cloud Services (IICS) is a comprehensive data management platform that provides tools for data integration, data quality, application integration, and more. Preparing for an IICS interview involves understanding its core functionalities, architecture, and practical applications. This guide provides a structured set of questions and topics that are frequently covered in IICS interviews.

During interview you can expect a lotr of the questions to be not related to IICS directly but focus more on the basic concepts of ETL and REST/SOAP web services.  
  
REST and SOAP Web Services

1. **What is REST?**
   * REST (Representational State Transfer) is an architectural style for designing networked applications, relying on stateless, client-server communication and standard HTTP methods.
2. **What are the key principles of REST?**
   * REST principles include statelessness, client-server architecture, cacheability, layered system, code on demand (optional), and uniform interface.
3. **What is the difference between REST and SOAP?**
   * REST is a lightweight, stateless protocol that uses standard HTTP methods, whereas SOAP (Simple Object Access Protocol) is a protocol for exchanging structured information using XML and has more rigid standards.
4. **What is SOAP?**
   * SOAP is a protocol for exchanging structured information in web services, utilizing XML for message format and typically relying on HTTP, SMTP, or other transport protocols.
5. **What are the main parts of a SOAP message?**
   * A SOAP message consists of an envelope, header (optional), body, and fault element (for error handling).
6. **What is a WSDL?**
   * WSDL (Web Services Description Language) is an XML-based language used for describing the functionalities of a SOAP web service, including the service's operations, messages, and bindings

#### **General ETL Concepts**

1. **What is ETL?**
   * Explanation of ETL (Extract, Transform, Load) and its importance in data integration and data warehousing.
2. **Describe the basic ETL process.**
   * Detailed description of each stage in the ETL process: extracting data from sources, transforming data into a suitable format, and loading it into a target system.
3. **What are the main challenges in ETL processes?**
   * Discussion of challenges such as data quality, data integration, data transformation complexity, performance, and scalability.

**Technical questions:  
  
What is Informatica Intelligent Cloud Services (IICS)?**

Explain that IICS is a cloud-based data integration platform that provides tools for ETL, data quality, application integration, and data governance. Mention its role in enabling businesses to manage their data in the cloud.

**Describe the architecture of IICS.**

Discuss components such as the Informatica Cloud Repository, Secure Agent, Informatica Cloud Services, and how they interWhat is REST?act with each other.

**What are the key features of IICS?**

Highlight features like cloud-native architecture, extensive connectivity, advanced data transformation capabilities, and integrated data governance and quality.

**Explain the different types of tasks in IICS.**

Describe various task types such as Data Synchronization, Mapping, Mapping Configuration, Taskflows, and Data Replication.

**How do you create and manage connections in IICS?**

Detail the steps to create connections using the Connection Manager, including configuring connection properties and testing connections.

**What are Mappings and Mapping Tasks in IICS?**

Define mappings as data integration workflows that define how data is extracted, transformed, and loaded. Mapping tasks execute these mappings with specific configurations.

**Can you explain the difference between a Taskflow and a Mapping Task in IICS?**

Taskflows orchestrate the execution of multiple tasks, including Mapping Tasks, while Mapping Tasks are specific to executing data mappings.

**What are the common transformation types in IICS?**

List and explain transformations like Aggregator, Filter, Joiner, Lookup, Router, and Expression.

**How does the Secure Agent work in IICS?**

Explain that the Secure Agent is a lightweight program that runs on your network to securely communicate with the Informatica Cloud.

**How do you handle error handling and logging in IICS?**

Discuss techniques for capturing errors using the IICS logging mechanism and setting up alerts and notifications.

#### **Data Integration**

These questions focus on the data integration capabilities of IICS, including data sources, transformations, and workflows.

1. **What types of data sources can IICS connect to?**
   * Explanation of supported data sources, such as databases, cloud storage, SaaS applications, and flat files.
2. **How do you configure a data source in IICS?**
   * Steps to configure and manage data connections in IICS.
3. **Explain the concept of mapping in IICS.**
   * Detailed description of mapping, mapping tasks, and components like sources, targets, and transformations.
4. **What are some common transformations available in IICS?**
   * Overview of transformations such as Aggregator, Expression, Filter, Joiner, Lookup, and Router.
5. **How do you handle errors and exceptions in IICS mappings?**
   * Techniques for error handling and debugging, including the use of error logs and error handling transformations.

#### **Application Integration**

These questions pertain to the application integration functionalities within IICS.

1. **What is Application Integration in IICS?**
   * Overview of application integration capabilities and use cases.
2. **How do you create and manage API services in IICS?**
   * Steps to design, deploy, and manage APIs using IICS.
3. **Explain the role of Process Designer in IICS.**
   * Description of the Process Designer tool and its use in building integration processes.

Great job, you really did your best :)