

IBM Informix Online Training Course Content

Pre-requisites

Basic knowledge on Structured Query Language (SQL).

Introduction to Informix Dynamic Server (IDS) Terminology

- Define basic Informix Dynamic Server terms
- Query the sysmaster database for information about the server

IDS Installation & Setup

- Identify the right product
- Extract & Install the IDS product
- Setup raw chunks for space
- Setup Environment
- ONCONFIG parameter changes
- SQLHOSTS file changes
- Instance creation
- Bounce Informix Server Instance
- Switching between server modes

Managing disk space

- Physical Units
- Logical Units

Shared memory

- Resident portion
- Virtual portion
- Message portion

Monitoring Message log file

Managing configuration parameter file

SMI Tables

Monitor/Manage Database Server activity using tools

- onstat
- onmode
- oncheck
- onparams
- onmonitor

- oninit
- ondblog
- onspaces

Backing up data and logical log files (ontape, onbar)

Data migration tools

- load/unload
- dbexport/dbimport
- onunload/onload
- dbschema

Checkpoints

Finder utility

Update statistics

SET EXPLAIN

Database Logging

- Physical Logging
- Logical Logging

Lock Management

Session Management

IDS Isolation Levels

IDS Data Types

- Identify the Informix data types
- Choose the appropriate data type for a data column

Creating Databases and Tables

- Create databases and tables
- Determine database logging and storage requirements
- Locate where the database server stores a table on disk
- Create temporary tables
- Locate where the database server stores temporary tables
- Use the system catalog tables to gather information
- Use the dbschema utility

Altering and Deleting Databases and Tables

- Drop a database

- Drop a table
- Alter a table
- Convert a simple large object to a smart large object

Create, Alter, and Drop Indexes

- Build an index
- Alter, drop, and rename an index
- Identify the four index characteristics

Managing and Maintaining Indexes

- Explain the benefits of indexing
- Evaluate the costs involved when indexing
- Explain the maintenance necessary with indexes
- Describe effective management of indexes
- Enable or disable indexes

Table and Index Partitioning

- List the ways to fragment a table
- Create a fragmented table
- Create a detached fragmented index
- Describe temporary fragmented table and index usage

Maintaining Table and Index Partitioning

- Alter a fragmented table
- Alter a fragmented index
- Explain how to skip inaccessible fragments

Data Security

- Use the database, table, and column level privileges
- Use the GRANT and REVOKE statements
- Use role-based authorization

Views

- Create views
- Use views to present derived and aggregate data
- Use views to hide joins from users

Introduction to Stored Procedures

- Explain the purpose of stored procedures
- Explain advantages of using stored procedures

Triggers

- Create and execute a trigger
- Drop a trigger
- Use the system catalogs to access trigger information