

Training

DBA BOOTCAMP

Duration 4 days

Audience Database Administrator

Brief Description This Bootcamp is a combination of DBA I & DBA II

This course is designed for database administrators who need to administer Progress V9 or OpenEdge RDBMS 10 and 11 databases.

It teaches the concepts, procedures, and guidelines used in database administration. Students will learn about the OpenEdge RDBMS architecture, and how to use database administration tools to create, start up, and shut down a database. For maintenance, students will learn how to back up and restore a database, implement roll-forward recovery using after-imaging, and dump and load a database. Finally, they will learn how to troubleshoot database problems

Day 1: DBA

- About the OpenEdge RDBMS architecture
- Familiarize with standard database tools
 - Data dictionary
 - Data administration
 - Create a database
- Usage of areas, structure files
- Create DB, copy DB, delete DB
- Basic PROSTRCT commands
- Adding, moving DB Extents
- Basic PROUTIL commands
- Start up and shut down a database
- OpenEdge Explorer
- DBMan command line utility

Day 2: DBA

- Familiarize with database tools in Progress Developer Studio
- Data dictionary
- Data administration
- Create a database
- Start up and shut down a database
- Database ABL and SQL connection
- DB Navigator perspective
- Embedding OpenEdge Explorer
- Backup and Restore a database
- Backup a DB (online vs. offline)
- Verify backup and restore
- Implement roll-forward recovery using After-imaging
- After-image Archiving

Day 3: Part I: DB Migration

- Sizing a databases
- Sizing AI, BI, DB
- Implement database migration strategies
- Converting DB V9 to R.10 and to R.11
- Dump&Load, Binary Dump&Load, Buffer-copy, Bulk Load
- Perform specialized dump and load

Day 3: Part II: DB Tuning

- Identify O/S monitoring tools
- Maximize CPU usage
- Maximize shared memory usage
- Reduce before-image I/O
- Minimize database I/O
- Optimize after-image I/O
- Eliminate table fragmentation
- Eliminate index-related performance problems
- Eliminate dead processes

Day 3: Part III: Advanced DBA

- Use Virtual System Tables
- Advanced troubleshooting
- Fix data corruption
- Fix index corruption

Day 4: Advanced DBA (topics on demand)

- OpenEdge Auditing
- Adding Transparent Data Encryption
- Clustering
- Introduction to OpenEdge Replication
- Introduction to OpenEdge Management
- Introduction to Multi-Tenancy
- Introduction to Table Partitioning

Objectives

- Describe the OpenEdge RDBMS architecture
- Familiarize with data administration tools
- Create a database
- Start up and shut down a database
- Backup and Restore a database
- Implement Roll-forward recovery using After-imaging
- Dump and load a database
- Migrate a database to a newer release
- Tune a database
- Troubleshoot database problems
- Tune a database
- Take advantages from the new database features

Prerequisites

- Students should already be able to:
- Understand relational database concepts such as tables, indexes, triggers, primary keys, foreign keys, and entity-relationship diagrams
- Possess a working knowledge of either the UNIX or Windows operating system

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