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Db2 12 for z/OS Basic Database Administration
Information

Length: 24.0 Hours
__Ref: CV844G □
Delivery method: Classroom
Price: AUD

Overview

This course will expose the beginning z/OS DBAs (Database Administrators) to fundamentals of Database Administration for a Db2 12 for z/OS. This course will teach the students how to physically implement a logical database design using DDL, and teaches considerations of referentially related tables. This course discusses the use of basic utilities, program preparation, serialization, and basic database security. This course does not cover distributed data processing, nor does it cover data sharing.

Public

- Students who will be performing the role of Db2 for z/OS database administrators who need to acquire the basic skills required to administer a Db2 database.

Prerequisites

- Familiarity with the z/OS operating system, including TSO, ISPF, and SDSF
- Familiarity with SQL data manipulation statements (SELECT, INSERT, UPDATE, and DELETE) to access and change the contents of Db2 tables

Objective

Prior to enrolling, IBM Employees must follow their Division/Department processes to obtain approval to attend this public training class. Failure to follow Division/Department approval processes may result in the IBM Employee being personally responsible for the class charges.

GBS practitioners that use the EViTA system for requesting external training should use that same process for this course. Go to the EViTA site to start this process:

<http://w3.ibm.com/services/gbs/evita/BCSVTEnrl.nsf>

Once you enroll in a GTP class, you will receive a confirmation letter that should show:

- The current GTP list price
- The 20% discounted price available to IBMers. This is the price you will be invoiced for the class.

Topics

Preface

- Course Overview
- Intended Audience
- Course Objectives
- Prerequisites

Unit 1 - Db2 Relational database concepts

- Relational Database design
- Data access
- Interacting with Db2
- Catalog and directory

Unit 2 - SQL and SPUFI

- SQL SELECT statement review
- SQL INSERT, UPDATE, DELETE review
- SQL COMMIT and ROLLBACK review
- Joining tables
- Executing SQL using SPUFI

Unit 3 - Db2 objects (Storage groups, databases, and table spaces)

- Object concepts
- Storage Groups
- Databases
- Table Spaces

Unit 4 - Db2 Objects (Tables, indexes, and views)

- Tables
 - o Aliases
- Table constraints
 - o Primary key
 - o Foreign key
 - o Check
 - o Referential integrity
- Indexes
- Views
- Qualified names
- Implicit object creation

Unit 5 - Utilities

- Utility Categories
- Load Utility
- Check Data Utility
- Unload Utility
- Runstats Utility
- Reorg Utility

Unit 6 - Commands and program preparation

- Db2 Command Structure
- Display Command
- Archiving Logs
- Stop and Start Commands
- Executing Commands
- Program Preparation

Unit 7 - The Db2 system

- System Parameters (zParms)
- Address Spaces
- System Databases
- Buffer Pools
- Logging
- Integrity
- Security

Unit 8 - Db2 Shutdown, startup, and recovery

- Start and Stop Commands
- Db2 Shutdown Process
- Db2 Startup Phases
- System Recovery
- Object Recovery
- Copy Utility
- Recover Utility

Appendix A - Demonstration solutions