

# Oracle Database 10g Quickstart for DBAs

## Course information

Days : 3

Total lessons : 10

Training includes :

- Experienced trainer(s)
- Pre-test and Post-test
- Practices, and solutions
- Trainer Assistant(s)

In-house price for 3 days

- 49,000 baht(THB) : Small Class : 1 - 10 persons
- 65,000 baht(THB) : Medium Class : 11 - 20 persons
- 81,000 baht(THB) : Big Class : 21 - 30 persons
- All prices exclude VAT 7 %

## Course details

### Day 1

- Lesson 1 : Introduction
- Lesson 2 : Installing the Oracle Database Software
- Lesson 3 : Managing the Oracle Instance

### Day 2

- Lesson 4 : Managing Database Storage Structures
- Lesson 5 : Administering User Security
- Lesson 6 : Managing Schema Objects
- Lesson 7 : Managing Data and Concurrency

### Day 3

- Lesson 8 : Managing Undo Data
- Lesson 9 : Implementing Oracle Database Security
- Lesson 10 : Moving Data

## Lesson details

### Lesson 1 : Introduction

- Install, create, and administer Oracle Database 10g
- Configure the database for an application
- Employ basic monitoring procedures
- Move data between databases and files

### Lesson 2 : Installing the Oracle Database Software

- Describe your role as a database administrator (DBA), and explain typical tasks and tools



- Plan an Oracle database installation
- Use Optimal Flexible Architecture (OFA)
- Install the Oracle software by using Oracle Universal Installer (OUI)

### **Lesson 3 : Managing the Oracle Instance**

- Start and stop the Oracle database and components
- Use Enterprise Manager (EM)
- Access a database with SQL\*Plus and iSQL\*Plus
- Modify database initialization parameters
- Describe the stages of database startup
- Describe the database shutdown options
- View the alert log
- Access dynamic performance views

### **Lesson 4 : Managing Database Storage Structures**

- Describe how table row data is stored in blocks
- Define the purpose of tablespaces and data files
- Create and manage tablespaces
- Obtain tablespace information
- Describe the main concepts and functionality of Automatic Storage Management (ASM)

### **Lesson 5 : Administering User Security**

- Create and manage database user accounts
  - Authenticate users
  - Assign default storage areas (tablespaces)
- Grant and revoke privileges
- Create and manage roles
- Create and manage profiles
  - Implement standard password security features
  - Control resource usage by users

### **Lesson 6 : Managing Schema Objects**

- Define schema objects and data types
- Create and modify tables
- Define constraints
- View the columns and contents of a table
- Create indexes
- Create views
- Create sequences
- Explain the use of temporary tables
- Use the data dictionary



## **Lesson 7 : Managing Data and Concurrency**

- Manage data through the use of SQL
- Identify and administer PL/SQL objects
- Describe triggers and triggering events
- Monitor and resolve locking conflicts

## **Lesson 8 : Managing Undo Data**

- Explain DML and undo data generation
- Monitor and administer undo data
- Describe the difference between undo data and redo data
- Configure undo retention
- Guarantee undo retention
- Use the Undo Advisor

## **Lesson 9 : Implementing Oracle Database Security**

- Describe your DBA responsibilities for security
- Apply the principle of least privilege
- Enable standard database auditing
- Specify audit options
- Review audit information
- Maintain the audit trail

## **Lesson 10 : Moving Data**

- Describe available ways for moving data
- Create and use directory objects
- Use SQL\*Loader to load data from a non-Oracle database (or user files)
- Explain the general architecture of Data Pump
- Use Data Pump Export and Import to move data between Oracle databases
- Use external tables to move data via platform-independent files

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*For more information please contact :*  
VT Technology Co.,Ltd.  
Tel +66 0 2594 5185  
Fax +66 0 25941 5621  
[contact@vttech.co.th](mailto:contact@vttech.co.th)

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