

Course : Oracle Database, the benefits of 19c

Practical course - 3d - 21h00 - Ref. OAN

Price : 1830 CHF E.T.

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Administrateurs et développeurs des versions Oracle inférieures vous devez migrer le SGBD vers Oracle 19c? Alors venez voir la mise en place d'une architecture mutualisée, ainsi que les améliorations apportées en termes de développement, de sécurité, de facilité de gestion et de performances par cette version 19c.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Identify what's new in the Oracle 19c database management system release
- ✓ Evaluate new functionalities for development
- ✓ Get to grips with the new administration features in version 19c

Intended audience

Administrators and developers of Oracle 12c and earlier databases who want to migrate to Oracle 19c and learn about the major improvements brought by version 19c.

Prerequisites

Good knowledge of Oracle 12c and earlier. Experience required.

Course schedule

1 Introducing Oracle 19c

- A reminder of Oracle's history.
- A reminder of what's new in versions 11g and 12c.
- Oracle 19c long-term support.
- License specificities.
- List of features and options no longer supported.

Hands-on work

Creation of a shared environment.

PARTICIPANTS

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PREREQUISITES

Good knowledge of Oracle 12c and earlier. Experience required.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.

Participants also complete a placement test before and after the course to measure the skills they've developed.

2 Development news

- New way to install an Oracle client using the supplied image.
- Fonctionnalité Easy Connect Plus : connecter les applications à la base de données. Schémas sans mot de passe.
- JavaScript Object Notation (JSON) support added.
- DISTINCT option in LISTAGG datawarehouse queries.
- Automatic indexing in datawarehouses.
- Quarantine over-consuming requests.
- SQL macros.
- External tables and DBMS_CLOUD package. Blockchain Table and Immutable Table.

Hands-on work

Mise en œuvre de l'indexation automatique. Mise en quarantaine. Écriture d'une macro SQL.

3 What's new for administrators

- Nouveautés dans l'installation du noyau : dupliquer, propager une 19c existante. Migration de n bases en même temps.
- Limit the size of listener log files (Oracle Network Log File Segmentation).
- Acceleration of COUNT DISTINCT (Bitmap Based Count Distinct) operations.
- The MAX_IDLE_BLOCKER_TIME parameter.
- In-Memory functionality for big data: reminder of In-Memory. Automatic allocation of CPU resources.
- Fonctionnalité In-Memory (suite) : tables externes. Insertion rapide de données (Memoptimized Rowstore Fast Ingest).
- Nouveautés dans l'optimiseur de requêtes : rappel optimiseur 12c. SQL Plan Management en mode automatique.
- Optimiseur de requêtes (suite) : statistiques dites "temps réel. Statistiques entre 2 exécutions de DBMS_STATS.

4 What's new for administrators (continued)

- Gestion de l'architecture multi-tenant : Rappel de l'architecture multi-tenant (mutualisée).
- Managing multi-tenant architecture (continued): moving a PDB from one CDB to another with DBCA.
- Multi-tenant architecture management (continued): new features in the "Oracle Real Application Testing" option.
- Security: unified audit: implementation. Schema password management. Analysis of privileges used.
- Cycle de vie d'une donnée (rappel 12c) : politiques pour la gestion des historiques. Validité temporelle.

Hands-on work

Unified audit. Temporal validity.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

5 New features for high availability and backup/restore/cloning

- New features in the datapump.
- Standard Edition High Availability.
- Nouveautés RMAN : rappel sur la 12c. Récupération d'une table en "point in time".
- RMAN news (continued): PDB cloning and Refreshable Clone PDB.

Hands-on work

Clonage d'une PDB. Sauvegarde et restauration du CDB et d'une PDB.

Dates and locations

REMOTE CLASS

2026: 25 Mar., 17 June, 30 Sep., 18 Nov.