Oracle Database Multitenant Architecture 12.2

By Ahmed Baraka

Objectives

By the end of this lecture, you should be able to:

- Describe the changes introduced in Oracle Multitenant Architecture release 12.2.
- Describe the new components:
  - Application root
  - Application
  - Application PDB
- Describe the advantage of using application PDBs.

12.2 Major Changes

- **Improvements:**
  - PDBs with different character sets
  - Local Undo
- **New Components:**
  - Introduces Application Container and Application PDB

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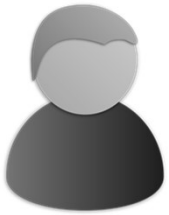
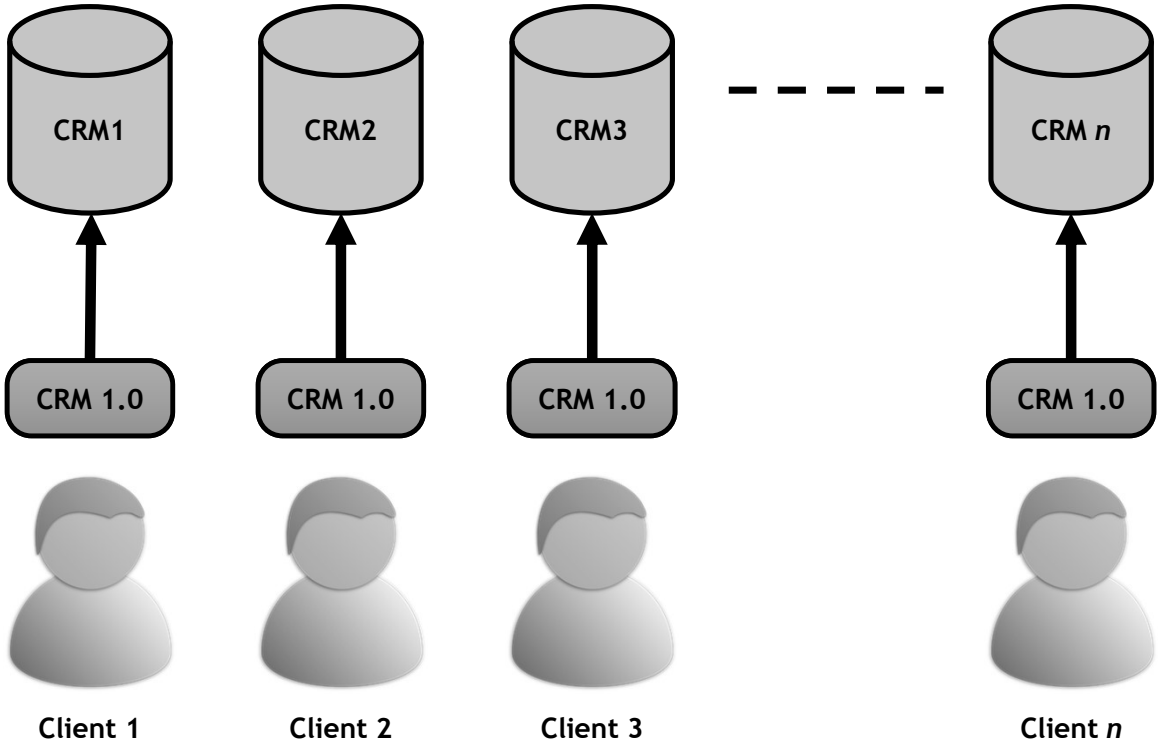
Multiple PDBs that run the same Application



Application DBA

Application Maintenance Tasks:

- Installing and uninstalling
- Upgrading and patching
- Managing shared data
- Updating data in all databases
- Reporting from all databases



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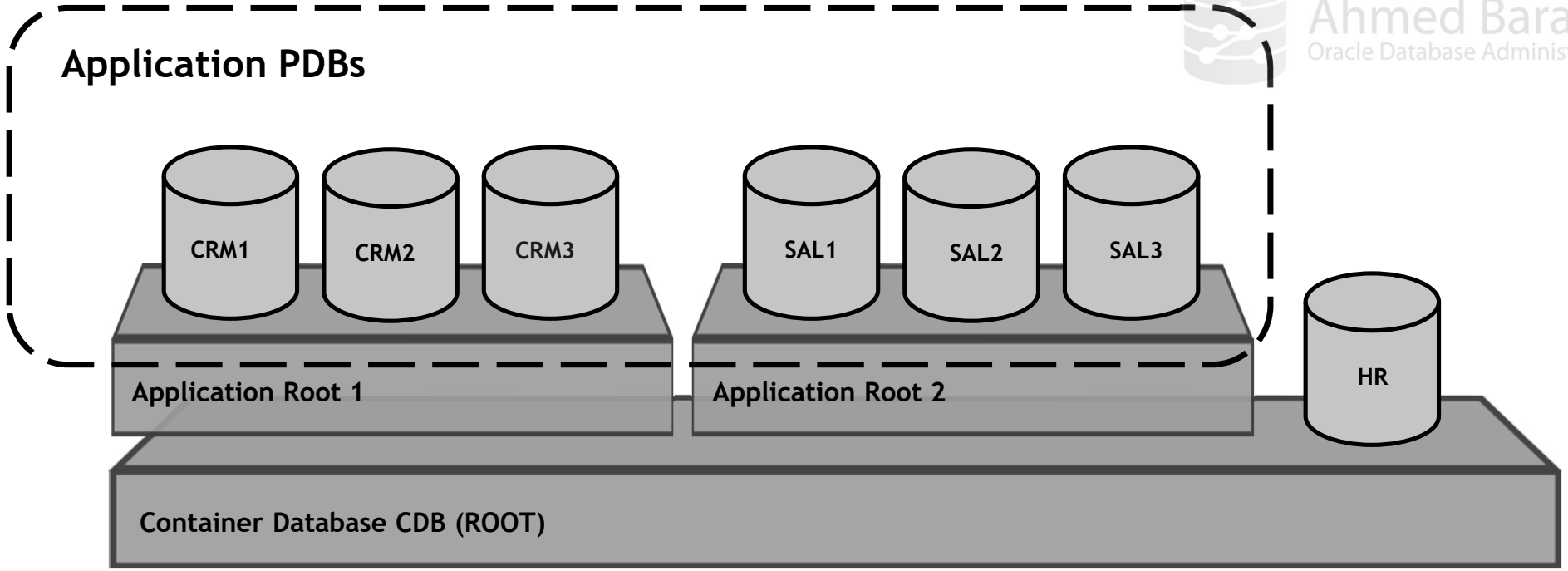
Multitenant Architecture: 12.2



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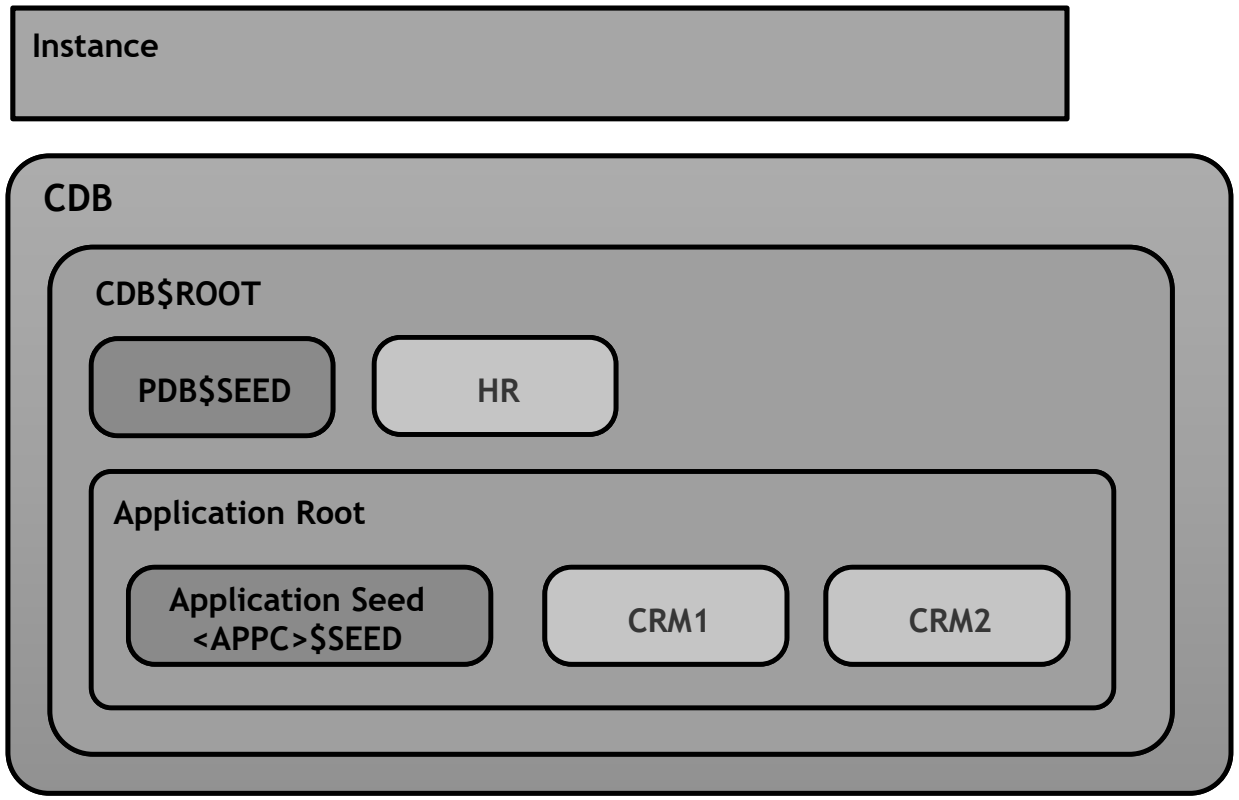
Multitenant Architecture: 12.2 (cont)



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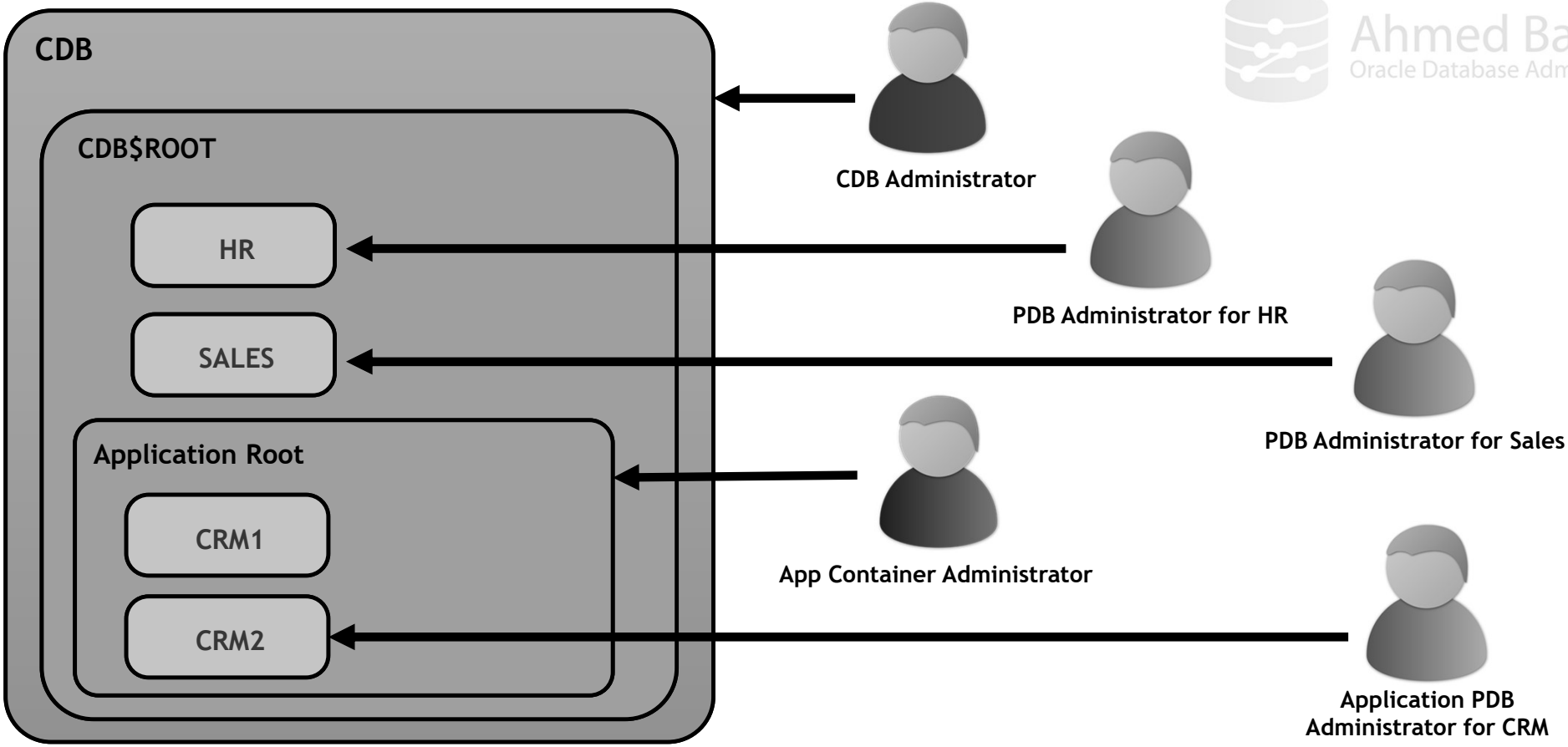
Separation of Duties in Multitenant



Application Container Concepts Summary

- Application Container is useful for streamlining the application maintenance tasks.
- Application container is a CDB component that stores data and metadata for one or more applications.
- The master application definition is maintained in the application root.
- Application PDBs can be created from the application seed.
- You can query views that report on all PDBs in the application container.

Summary

In this lecture, you should have learnt how to:

- Describe the changes introduced in Oracle Multitenant Architecture release 12.2.
- Describe the new components:
  - Application root
  - Application
  - Application PDB
- Describe the advantage of using application PDBs.