

# Individual Assignment II: Oracle Pluggable Databases (PDB) Management

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**Course:** Database Development with PL/SQL (INSY 8311) **Instructor:** Eric Maniraguha | eric.maniraguha@auca.ac.rw **Assignment Date:** February 9, 2026 **Groups:** A, B, C, D

**Deadline:** Monday, February 16, 2026 11:59 PM (STRICT)

**Submission is ONLY through the Google Form below:**

<https://docs.google.com/forms/d/e/1FAIpQLSdE1IHUxJwQTgJ0haS95fizHvJWmEJGGQ5y9EAWUYigHYeMQ/viewform>

**⚠ NO EXTENSIONS. NO EXCUSES. LATE = ZERO. ✗ Do NOT send this assignment by email. ! Your GitHub repository MUST be public. Private repositories will receive ZERO.**

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## Message to Students

This is a **mandatory individual practical assignment** focused on **hands-on Oracle database administration skills**.

The skills practiced in this assignment are **foundational** and will be required for:

- Understanding **Oracle Multitenant Architecture**
- Future **PL/SQL laboratory sessions**
- **Quizzes, practical tests, and examinations**

Failure to complete **all required tasks exactly as instructed** will result in **ZERO MARKS**.

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## How to Maximize Your Grade

1. Follow **all naming conventions exactly** (no variations)
  2. Perform **all tasks individually**
  3. Provide **clear, readable screenshots** as evidence
  4. Document your work **professionally on GitHub**
  5. Submit **before the deadline** (late submission = zero)
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## Academic Integrity Guidelines (Strictly Enforced)

- This is an **individual practical assignment**
  - **Do NOT copy** commands, screenshots, or repositories from classmates
  - **Do NOT use ChatGPT or any AI tools** to generate commands or solutions
  - Reused screenshots, shared repositories, impersonation, or collaboration will result in **ZERO MARKS**
  - All work must reflect **your own execution and documentation**
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## Assignment Objective

By completing this assignment, you will demonstrate practical understanding of:

- Oracle **Multitenant Architecture**
  - Creation and deletion of **Pluggable Databases (PDBs)**
  - **User creation and management inside a PDB**
  - Usage of **Oracle Enterprise Manager (OEM)**
  - Professional **technical documentation using GitHub**
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## Assessment Weight

**5 Raw Points** (Practical Assessment)

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## Assignment Structure

This assignment consists of:

- **Three (3) technical tasks**
- **One (1) documentation task**

All tasks are **mandatory**.

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## Task 1: Create a New Pluggable Database

Create a **Pluggable Database (PDB)** using the **exact naming conventions below**.

Naming Conventions (Must Be Exact)

- **PDB Name:** `FirstTwoLettersOfFirstName_pdb_StudentID` *Example: er\_pdb\_2024101*
- **Username inside the PDB:** `FirstName_plsqlauca_StudentID` *Example: eric\_plsqlauca\_2024101*
- **Password:** Choose a **simple password** (you must remember it)

### Requirements

- PDB must be created successfully
- User must be created **inside the PDB**
- This user account will be used for **all future class work**

### Evidence Required

Provide screenshots clearly showing:

- PDB creation command
  - PDB open state
  - User created inside the PDB **Your username must be clearly visible**
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## Task 2: Create and Delete a PDB

Create a **temporary PDB**, then delete it completely.

### Naming Convention

- **Temporary PDB Name:** FirstTwoLettersOfFirstName\_to\_delete\_pdb\_StudentID *Example: er\_to\_delete\_pdb\_2024101*

### Requirements

1. Create the PDB successfully
2. Verify that it exists
3. Delete the PDB completely
4. Confirm that it no longer exists

### Evidence Required

Provide screenshots clearly showing:

- PDB creation
  - PDB deletion Commands and results must be visible
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## Task 3: Oracle Enterprise Manager (OEM)

Configure and access **Oracle Enterprise Manager (OEM)**.

### Requirements

- OEM must be accessible
- Dashboard must reflect:
  - Your Oracle environment
  - Completed PDB tasks
- **Your username must be visible**

### Evidence Required

- Clear screenshot of the **OEM dashboard**
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## Task 4: Documentation & Reporting

Prepare a **short professional report** and publish it on GitHub.

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### GitHub Repository Requirements

- **Repository Name:** oracle\_pdb\_ass\_II\_[studentId]\_[firstname]
- **Visibility: PUBLIC (mandatory)**

## Repository Must Contain

### 1. README.md

- Overview of tasks
- Oracle environment used
- Explanation of each task
- Challenges faced (if any) and how they were solved
- Integrity statement

### 2. screenshots/ folder

- PDB creation
- PDB deletion
- OEM dashboard

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## Submission Instructions (VERY IMPORTANT)

### Submit ONLY via the Google Form

You must include the following information **inside the form and in your GitHub README:**

Repository Link: [GitHub URL]  
PDB Name Created: [PDB Name]  
Issues Encountered: [Yes/No]

✖ Email submissions will be ignored.

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## Final Checklist (Apply Before Submission)

- Correct PDB names used
- User created inside the PDB
- Temporary PDB created and deleted
- OEM dashboard screenshot included
- GitHub repository is PUBLIC
- README is clear and professional
- Deadline respected

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## Professional & Ethical Note

*Excellence is never an accident; it is the result of discipline, commitment, and integrity.*

As future database professionals, **precision, discipline, and integrity** are non-negotiable.