✅ Oracle 23ai Free Installation & HR Schema Setup (with VS Code)

📦 1. Install Oracle Database 23ai Free Edition (ZIP)

1. Download the ZIP from [Here](#)
2. Extract the ZIP to a desired directory (e.g., `D:\oracle`)

3. Run `setup.exe` or follow the instructions in `README.txt` if available

4. Installation will still place some files in `C:\` even if you choose another drive

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🧩 2. Install Oracle SQL Developer Extension in VS Code

1. Open VS Code

2. Install extension: **Oracle Developer Tools for VS Code**

3. This installs a JDK and necessary libraries under:
   `C:\Users\<you>\.vscode\extensions\oracle.sql-developer-...`

👤 3. Create a SYSDBA Account

Open Command Prompt:

1. 💡 To find your PDB name:

```
**sql prompt:**
SHOW PDBS;
```

In under name there'll be something like:

FREE or FREEPDBS1. Use Whatever comes up in the below prompt (after 1521/).

2.

```
**bash prompt:**
 sqlplus sys/your_password@localhost:1521/FREEPDB1 AS SYSDBA
```

📂 4. Download and Install HR Sample Schema

1. Clone or download [Oracle Sample Schemas](#)

2. Extract to:
   `D:\oracle\sample-schemas` (or any location)

3. Go to: `D:\oracle\sample-schemas\human_resource`

4. Open `hr_install.sql` in VS Code

⚙ 5. Run `hr_install.sql` Script in SQLPlus

Open Command Prompt:
1.
```
**bash prompt:**
 sqlplus sys/your_password@localhost:1521/FREEPDB1 AS SYSDBA
```

2. Run script:
```
**sql prompt:**
@D:\oracle\sample-schemas\hr\hr_install.sql
```

3. Enter prompts:

   ○ **Password** for HR user: e.g., `hr`

   ○ **Tablespace**: (press Enter to use default `USERS`)

   ○ **Overwrite if exists**: YES

4. Make sure it completes **without errors**.

5. If you get `ORA-65096`, you're probably using a **CDB**, so make sure to connect to **PDB (e.g., FREEPDB1)**, not the root.

💾 6. Add HR Schema as a Connection in VS Code

1. Go to **Oracle Explorer** tab

2. Click ➕ next to "Connections"

3. Fill in:

   ○ **Connection Name**: `HR@FREEPDB1` (or anything you like)

   ○ **Username**: `hr`

   ○ **Password**: (your HR password)

   ○ **Host**: `localhost`

- ○ **Port**: 1521

- ○ **Service name**: FREEPDB1

4. Click **Test Connection**, then **Save**

🔍 7. Use the HR Schema in VS Code

- Open a `.sql` file in VS Code

- At the top, click **Connect** (🔌) and select the HR connection
- Run SQL queries:

```
**sql prompt:**
SELECT * FROM employees;
```

- Explore tables in the Oracle Explorer sidebar