# Database Creation Instructions

## 1. Tools Required

- Oracle Database 23c Free (or compatible)

- Oracle SQL Developer

- MS Access (for front-end connectivity)

## 2. Script Execution Order

The following SQL scripts must be executed in the listed order:

#### 1. Database DDL.txt

Creates all sequences and tables:

- Tables: GAME, VERSION, GENRE, PUBLISHER, GAME\_VERSION

- Sequences for primary key auto-generation

#### 2. Package\_GAME\_PKG.txt

Creates the stored package **game\_pkg** which contains:

- **new\_game()** function (insert and connect game metadata)

- **change\_version()** procedure (manage version history)

#### 3. View table.txt

Defines `VIEW\_GAME` to expose only the latest version of each game.

#### 4. Triggers.txt

Adds **INSTEAD OF** triggers to:

- Handle INSERT, UPDATE, DELETE logic automatically

- Ensure version tracking and referential integrity

#### 5. Database DML\_TestData.txt

Populates the database with test data for demonstration purposes.

#### 6. Connection Tips

- Ensure Oracle Listener is running before executing scripts.

- Use **SQL Developer** or **SQL\*Plus** with HR users or a new schema with full privileges.

#### 7. Important Notes

- Execute each script in the correct order to avoid missing dependencies.

- View and triggers depend on base tables and package.