Guitar Collection

Database Creation Instructions

1. Before creating the new database schema, existing sequences, tables, views, procedures, and packages are dropped to ensure that no conflicts occur with the new schema. (image 1)
2. Create tables for a database related to clients, customers, departments, employees, guitars, maintenance records, and other related entities. (image 2)
3. Create the views. (image 3)
   1. For the Employee View: Join t\_employee, t\_department, t\_employee\_phone, and t\_phone tables. Filter records where end\_date in t\_employee\_phone is null.
   2. For the Maintenance View: Join t\_maintenance, t\_maintenance\_duration, t\_duration, t\_employee\_maintenance\_relation, and t\_employee tables. Filter records where end\_date in t\_maintenance\_duration is null.
   3. For the Owner View: Join t\_client, t\_owner, t\_client\_name, and t\_name tables. Filter records where end\_date in t\_client\_name is null.
4. Insert data to tables.(image 4)
5. Create Unique Indexes: For each specified table (e.g., T\_CLIENT\_NAME, T\_DURATION, T\_EMPLOYEE\_PHONE, etc.), create a unique index on the respective column (e.g., CLIENT\_NAME\_ID, DURATION\_ID, etc.). Configure storage parameters such as PCTFREE, INITRANS, MAXTRANS, and use the USERS tablespace.(image 5)
6. Create Trigger: Create Trigger for V\_EMPLOYEE View, V\_MAINTENANCE View and V\_OWNER View.(image 6)
7. Create Procedure: Create a procedure POPULATE\_ALL\_TABLES: Populates tables with random data.(image 7)
8. Create Package and Package Body for EMPLOYEE\_PKG and MAINTENANCE\_PKG. (image 8)

A screenshot of a computer

Description automatically generated(image 1)

A screenshot of a computer

Description automatically generated(image 2)

A white card with black text

Description automatically generated with medium confidence(image 3)

A screenshot of a computer

Description automatically generated(image 4)

A screenshot of a computer program

Description automatically generated（image 5）

A screenshot of a computer program

Description automatically generated(image 6)

A screenshot of a computer code

Description automatically generated(image 7)

A screenshot of a computer program

Description automatically generated

(image 8)