CST2355 – Database Systems

Group Lab Assignment 2

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# Application description

**A diagram of a computer

Description automatically generated with medium confidence**

**Database group assignment 2**

Topic: Guitar collection management application for ABC company

**Section 1: Introduction**

This is a database application for managing ABC Company's guitar collections. This application will enable users to track and query information about internal data of ABC Company, along with detailed log records.

The database will include several tables for guitar details. We have views that allow users to record the time when they insert, update, or delete data, including 'EMPLOYEE\_VIEW,' 'GTYPE\_VIEW,' and 'MANUFACTURER\_VIEW'.

We have log tables record timestamps for user-initiated changes and implement triggers to allow users to seamlessly make changes to the view.

We'll introduce an additional log table linked to the input interface (UI). This table will record STARTIME (the timestamp from when the value was inserted or given the linked value)and ENDTIME(the timestamp when the value was changed to a new value or DELETED. ) for data entries, providing users with a transparent view of previously entered data.Model

# User instructions

## Navigation instructions

### Welcome window

In this window, you will find the access to the Guitar Collection Application divided in two categories:

* Data modification
* Reports

A screenshot of a computer

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### How to access each module

Click in the button of the module that you want to use to enter to each module:

### Return to the main menu

Press the button “Main Menu” allocated on the buttons below the form to return to the main menu:

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# Records: Add, update, and delete

## Add records from the module

On each module, you will find three buttons in the left side of the window to add, save, and delete records about the current module.

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## Update record from the module

Navigate to the record that you want to delete or update information and then press the button delete record if you want to delete or save record if you want to update information.



## Delete a record from the module

Select the record as shown in 3.2.

For update the information of the selected row, update in the next fields the information needed and press the button “update” for update the information for the current guitar

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If you want to delete a record from the module, select the guitar that you want to delete from the first field and after press the button “delete”, it will show you the following message:

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When you are sure about the delete operation press the button “yes” to delete the record, you will see that the record no longer exist.

Note: If you still see the record, press the button “Refresh All” above the main window as shown in the following image: A screenshot of a computer

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# Reports

For access a report, please select a report from the main menu:

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## Main reports

The report selected will be displayed in the software:

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To return press the button “Back” or “Main Menu”

## Display records

Select a module and select a button for display the record:

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A report will be displayed showing the “Start Date” and “End date” of the records selected

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# Database creation instructions

Open cmd in administration mode  
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In the opened windows executed the command “sqlplus / as sysdba

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You will login successfully if you see the next information in cmd:

A screen shot of a computer

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Copy and paste the script provided for build the database after the “SQL>”

