Databases Homework 1 Report

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*"I certify that this assignment is entirely my own work, performed independently and without any help from the sources which are not allowed.”*

Summary:

The task for this assignment was to create a web application that can manage database operations like updating, inserting, deleting etc. more easily by the user.

The task specifically was to create two tables, and I have chosen to do this using SQL Server. The first table is the **GAMES** table and the second is the **ORDERS** table. Using JDBC, we form a connection between the database and the java application and create 3 interfaces. The first interface displays the list of games stored in the database based on our filtering criteria and displays the list of the games stored in the database based on that criteria. We can then buy a game from that list which creates an order. Once we have selected all the games, we can display all our orders and have an option to update the order or delete the order.

Test results:

Interface 1: Buying using filtering criteria

For this interface we run the html file named **Filter1.html** and you can see that I add the following data:

Graphical user interface

Description automatically generatedOnce we click submit the following data is displayed.

Table

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We will now buy the games having GAME\_ID 4, 8 and 9 respectively and check the result in the ORDERS table.

This is the orders table before we added any of the games:

A screenshot of a computer

Description automatically generated with medium confidence

And this is the ORDERS table after we buy the games

Table

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Interface 2: Updating 3 rows

We will now update the row having ORDER\_ID=1 and check the results:

Table

Description automatically generated

We get the following page where we have the option to edit all columns except the ORDER\_ID. We will update the **GAME\_ID** from 1 to 2 and check if this update has taken change in the orders tables.

Table

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We see that the order has indeed been updated.

Table

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We will now do the same for row with ORDER\_ID =2 and ORDER\_ID=3.

We will now change the NET\_AMOUNT from 24.99 to 22.99 and DISCOUNT from 20 to 5.

Table

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In the row with ORDER\_ID = 3 will change the date from ‘2017-03-11’ to ‘2018-03-11’.

Table

Description automatically generated

We will now check the data in the ORDERS table to see if the following changes have been updated in it.

Table

Description automatically generated

And we see that it has.

Interface 2: Deleting Orders

This is the ORDERS table before deletion. We will now delete rows having ORDER\_ID 1,2 and 3 respectively one by one and check the results.

Table

Description automatically generated

We see that the following rows have been deleted and only the row with ORDER\_ID 4 remains.

A screenshot of a computer

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This is the last section of the report.