Assignment 2

Group #2

Aram Esmaeili: [esma0024@algonquinlive.com](mailto:esma0024@algonquinlive.com)

Seyedeh Mahsa Seyed Danesh: seye0010@algonquinlive.com

Mohammad Mahdy Dellawari: [dell0081@algonquinlive.com](mailto:dell0081@algonquinlive.com)

CST3225

Section 311

Due date: December 4, 2023

**Purpose of Application:**

The purpose of this application is to manage the database of a tool rental company. It keeps track of employees, customers and orders.

This revision to the application keeps track of historical changes to the Employee and Customer tables.

**Tools used for this assignment:**

Microsoft Access and Oracle SQL Developer.

1-Create a new database and name it Assignment 2

A screenshot of a computer screen

Description automatically generated

2- Create Tables Customer, Employee, and tool\_Order

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

3-Create Relationships between tables

A screenshot of a computer

Description automatically generated

4- Create tables EMPLOYEE, CUSTOMER, and TOOL\_ORDER in Oracle SQL Developer.

This is due to the import incompatibility of Oracle with exported Access text files.

A screenshot of a computer

Description automatically generated

A computer screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Create History Tables:**

--EMPLOYEE\_HISTORY

A screenshot of a computer program

Description automatically generated

--Create Insert, Update, Delete trigger for EMPLOYEE

A screenshot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

Create CUSTOMER\_HISTORY table.

A screenshot of a computer program

Description automatically generated

Create Insert, Update, Delete triggers for CUSTOMER table.

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Linking Oracle database with MS Access:**

1. Choose New Data Source > From Other Sources > ODBC database.

A screenshot of a computer

Description automatically generated

1. Chose the bottom option

A screenshot of a computer

Description automatically generated

1. Click New to add a new DSN

A screenshot of a computer

Description automatically generated

1. Choose proper Oracle driver

A screenshot of a computer

Description automatically generated

1. Choose the DSN name that you just created. And accept the faults and click finish. You will be prompted to the next step ( see next slide).

A screenshot of a computer

Description automatically generated

1. Fill out the database Service name, Username, and password.

A screenshot of a computer

Description automatically generated

1. Final Linked tables should look like this.

A screenshot of a computer

Description automatically generated

**Creating Forms for each linked table**

CUSTOMER table form.

A screenshot of a computer

Description automatically generated

CUSTOMER\_HISTORY table form.

A screenshot of a computer

Description automatically generated

EMPLOYEE table form.

A screenshot of a computer

Description automatically generated

EMPLOYEE\_HISTORY table form.

A screenshot of a computer

Description automatically generated

TOOL\_ORDER table form.

A screenshot of a computer

Description automatically generated

**Updating CUSTOMER table through Access form**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Confirming that the updated customer has been updated in the history table in Oracle:**

A screenshot of a computer

Description automatically generated