ITEC 4200 Advanced Databases Semester Project

Student Name: **Christan de Luna**

Semester: **Fall 2017**

Name of Project: **ITEC 4200 Semester Project**

Email: [**cdeluna@ggc.edu**](mailto:cdeluna@ggc.edu)

Phone Number: **(770) 910-2701**

PART I: EXECUTIVE SUMMARY

**Objective**

This database is designed to help **Art Galleries** track various art museums, pieces of art, and artists.

**Goals**

The goal of this project is to provide a simple and organized way to store and retrieve pieces of art and their artists from every famous museum around the world. This project will outline a series of components, including design, implementation, queries, and reports, all of which will provide an easy-to-use interface to search by archivists, curators, and other museum workers.

**Solution**

The solution to this project is the creation of multiple database tables including various relationships between said tables. They are ***Museum***, ***Artwork***, ***Artist***, ***Museum-Artist***,and ***Artwork-Artist***. These tables represent main entities, which contain links that define the relationships between entities. From here, we can create queries and reports that will provide relevant information useful to the art museums. This database will be implemented in *Oracle 11g Express*.

**Benefits to Users**

This database serves as a valuable tool for providing information in a convenient and reliable manner, which will help streamline operations and make art organization quick and easy.

**Project Outline**

This project will contain the following:

* Schema designs
* Entity-relationship diagrams
* Table implementation
* Queries
* Reports

PART II: SCHEMA AND ER DIAGRAMS

**MUSEUM** (MuseumID, MuseumName, Fee, PhoneNumber, City, Country, FoundedDate)

**ARTWORK** (ArtworkID, ArtworkName, ArtistName, Medium, Year, MuseumID)

FK MuseumID -> MUSEUM

**ARTIST** (ArtistID, ArtistName, Origin, DateOfBirth, Movement)

**MUSEUM-ARTIST** (MuseumID, ArtistID)

FK MuseumID 🡪 MUSEUM

FK ArtistID 🡪 ARTIST

**ARTWORK-ARTIST** (ArtworkID, ArtistID)

FK ArtworkID 🡪 ARTWORK

FK ArtistID 🡪 ARTIST

