**MSA University**

**Faculty of Computer Science**

**………………………….. SYSTEM**

This project is built to fulfill the requirements of course:

* CS215: Fundamentals of Database Systems

Group no: …..

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| --- | --- | --- |
| ***Name*** | ***ID*** | ***Faculty*** |
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## Chapter 1: Introduction

# Background

# Problem Statement

# Objective

## Chapter 2: ER Diagram & Conversion

Small introduction….

### Entity Relationship Diagram

Use the notations for drawing ERD (Powerdesigner, Erdplus.com ,VISIO, SmartDraw , DeZign, …)

Plot here screenshots of the ERD Tables and the relationships between the tables.

### Mapping ER Model to Relational Model

Plot here screenshots of the relational Model.

## Chapter 3: DDL, DML and DQL

3.1 Data Definition Language (DDL)

Plot here screenshots of your DDL scripts.

3.2 Data Manipulation Language (DML)

Plot here screenshots of your DDL scripts.

3.3 Data Query Language (DQL)

Plot here screenshots of your DQL scripts.

## Chapter 4: Implementation

Plot here screenshots for your implementation for your system with C# programming language linked to SQL Server.

**Suggested Project Titles**

1. **Human Resources System:** The system records a company organization chart, available jobs and employees with their qualifications, skills, certificates, experience, schedule, attendance and job history.
2. **Blood Donation System:** A system in which data f Patients, data of donor, data of blood bank would be saved and will be interrelation with each other.
3. **Course Documentation System:** This system focuses on courses, assignments, quizzes, model answers, final exams, syllabus, … etc.
4. **Library Management System:** The idea behind this project is to design an internet-based library management system that will be able to issue books and allow users to view several books and their titles under a category.
5. **Travel Agency System:** The system should focus on clients, trips, trip programs, services (hotel reservation, airline reservation, Nile cruises) and service providers.
6. **Railway Database System:** Track every activity relating to traveling by train into consideration. For instance, some of these activities include passenger booking information, schedule of trains, rail routes, and many more.
7. **Art Gallery Management System:** In short, this project idea is best suited for anyone running an art business because a Database system like this can be used in organizing and managing consumers’ information properly.
8. **Clothing Store Management System:** This system should track the items in the store, the inventory for each item, the prices of items, …. Etc.
9. **Clinic Management System:** This system should track the reservation of a clinic, the patients’ information, doctor information, available appointments for the doctor, …etc.

**10-** **Training Center Management System:** This system should track the   
 different training centers, trainees, management, …etc.

**11- Hotel Management System:** This system should manage hotel rooms, staff, visitors and others.

**12- Event Management System:** This system should develop a database   
 that will simplify event management procedures. Enterprise will be able   
 to manage resources, dates, people and others.

**13- Employee Vacation Management System:** This system should use the   
 available resources and ensure a database development that keeps a true   
 record of vacations. Employees are going with this system.

**14- Cinema Booking Management System:** This system should provide the   
 details of all movies that are currently running in cinemas in a simple   
 way, the reservation process and others.

**15- Gym Management System:** This system should keep track of everyone   
 who visits the gym. Save information about trainers. Different ways of   
 payments in the gym including special classes payments and others.

**16- Car Rental Management System:** Thissystem should be developed for   
 car rental company, aims to keep track about cars renting, customers who   
 rent the car, people working in the company and others.