CP363 Project Report

University of Laurier

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**Project Objective:**

* To create a database using MySQL for student information to store data relating to the student’s courses, grades, personal information, and faculty.
* Separate data based upon specific categories into different tables using decomposition.
* Understand the relationships between the different contrived tables.
* Reduce redundancy within the database.

**Scope:**

The project will focus mainly on students; however, it will also focus on the staff at a school that such a student may interact with. The focus on students considers information relevant to academics, and information regarding the faculty regards those who play an active role in the facility the student learns within.

**Project System specifications:**

This database runs off MySQL, running on the Windows 10/11 operating system. Data is accessible through the command prompt using the MySQL interface. It is important to have an account for the database, either being the root user or having an account created from the root user.

**Relational Schema:**

**Student Info:**

| Student\_ID | Student\_Fname | Student\_Lname | Student\_Year | Student\_Major | Student\_  Minor | Student\_GPA | Student\_Type | Courses\_Passed | Courses\_Failed | Student\_Staff | Department\_ID | Student\_Date\_of\_birth | Student\_Age | Student\_Gender | Student\_Address | Student\_Phone | Student\_Email |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Courses:**

| Course\_Name | Course\_ID | Midterm#1 | Midterm#2 | Final\_Exam\_Date | Student\_ID | Start\_Date | End\_Date | Description | Credit\_Hours | Section\_Number | Room\_ID | Semester | Course\_Taken\_Date |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

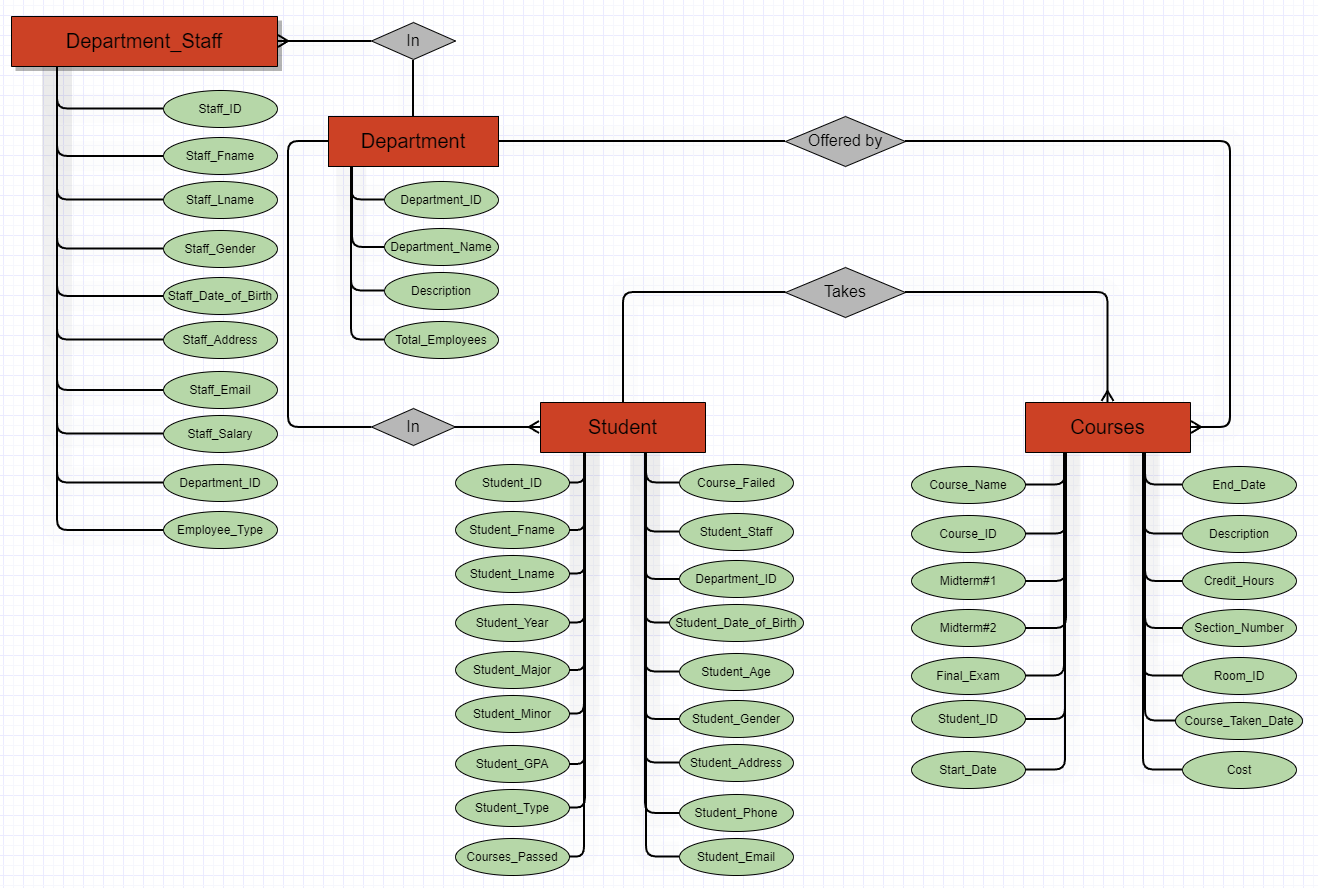
**Department:**

| Department\_ID | Department\_Name | Description | Total\_Employees |
| --- | --- | --- | --- |

**Department\_Staff:**

| Staff\_ID | Staff\_Fname | Staff\_Lname | Staff\_Gender | Staff\_Date\_Of\_Birth | Staff\_Address | Staff\_Email | Staff\_Salary | Department\_ID | Employee\_Type |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Entity Relationship Diagram:**



**Entity Relationship Diagram Explanation:**

* Employee - in - Department (many to one): There are many Employees in a department, and every Employee is in one department.
* Department - in - Student (one to many): There are many students in a department, and every student is in one department.
* Student - takes - Course (many to many): Students can take many courses, and courses can have many students.
* Courses - offered by - Department (one to many): Many courses can be offered by a department, but a course can only be offered by one department.

**Normalization Checklist**

**1NF:**

* ~~Each column must have a unique name.~~
* ~~The order of the rows and the order of columns does not matter.~~
* ~~Each column must have a single data type.~~
* ~~No two rows can contain identical values.~~
* ~~Each column must contain a single value.~~
* ~~Columns cannot contain repeating groups.~~

**2NF:**

* ~~The table is in 1NF.~~
* ~~All non-key attributes are fully functionally dependent on the primary key.~~

**3NF:**

* ~~The table is in 2NF.~~
* ~~The table contains no transitive.~~

**Database Overview:**

This database constructs a series of tables around students and their academic life. The database is capable of accessing and storing data relating to personal, academic and department information.

**Student Table**

The "Student" table contains comprehensive information about each student, including their personal details, academic status, and contact information. It contains a student ID as a primary key that will be used within the course table to recognize what courses the students take.

| Student\_ID | Student\_Fname | Student\_Lname | Student\_Year | Student\_Major | Student\_Minor | Student\_GPA | Student\_Type | Courses\_Passed | Courses\_Failed | Student\_Staff | Department\_ID | Student\_Date\_of\_Birth | Student\_Age | Student\_Gender | Student\_Address | Student\_Phone | Student\_Email |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12345 | Jhon | Doe | 3 | History | Art | 3.6 | 0 | 12 | 5 | 0 | 56789 | March 20th, 2023 | 26 | Male | 28, Churchill rd | 226-867-9567 | Jhon640@mylaurier.ca |

* Student\_ID (Primary Key):
  + A unique identifier for each student serves as the primary key for the table.
  + Data type: Integer
  + Constraints: NOT NULL
* Student\_Fname (First name):
  + The first name of the student.
  + Data type: String
  + Constraints: NOT NULL
* Student\_Lname (Last name):
  + The last name of the student.
  + Data type: String
  + Constraints: NOT NULL
* Student\_Year:
  + The academic year or level the student is currently in (e.g., freshman, sophomore, junior and senior year represented as an integer).
  + Data type: Integer
  + Constraints: NOT NULL
* Student\_Major:
  + The primary field of study or major chosen by the student.
  + Data type: String
  + Constraints: NOT NULL
* Student\_Minor:
  + An optional field indicating any minor subject the student may have.
  + Data type: String
* Student\_GPA:
  + The student's Grade Point Average, reflecting their academic performance.
  + Data type: FLOAT
  + Constraints: NOT NULL
* Student\_Type (International or domestic):
  + Indicates whether the student is international or domestic.
  + Data type: Integer (0: Domestic, 1: International)
  + Constraints: NOT NULL
* Courses\_Passed:
  + A record of courses that the student has successfully completed.
  + Data type: Integer
  + Constraints: NOT NULL
* Courses\_Failed:
  + A record of courses that the student failed.
  + Data type: Integer
  + Constraints: NOT NULL
* Student\_Staff (true/false):
  + A binary flag indicating whether the student is also employed as a staff member at the institution (true) or not (false).
  + Data type: Integer
  + Constraints: NOT NULL
* Department\_ID:
  + An identifier linking the student to a specific department within the institution.
  + Data type: Integer
  + Constraints: NOT NULL
* Student\_Date\_of\_Birth:
  + The date of birth of the student.
  + Data type: DATE
  + Constraints: NOT NULL
* Student\_Age:
  + The age of the student.
  + Data type: Integer
  + Constraints: NOT NULL
* Student\_Gender:
  + The gender or sex of the student (e.g., male, female, non-binary).
  + Data type: String
  + Constraints: NOT NULL
* Student\_Address:
  + The current address of the student, typically including street, city, state, and ZIP code.
  + Data type: String
  + Constraints: NOT NULL
* Student\_Phone:
  + The contact phone number of the student.
  + Data type: String
  + Constraints: NOT NULL
* Student\_Email:
  + The email address that students use for communication and notifications.
  + Data type: String
  + Constraints: NOT NULL

**Courses Table:**

This "Courses" table contains information about the courses a student has taken at an institution, including details about the course, department, schedule, and cost. The foreign key is student ID, as it references the student ID within the student ID primary key within the student info table.

| Course\_Name | Course\_ID | Midterm\_1 | Midterm\_2 | Final\_Exam | Student\_ID | Start\_Date | End\_Date | Description | Credit\_Hours | Section\_Number | Room\_ID | Semester | Course\_taken\_Date |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Math101 | 17218 | 50 | 60 | 100 | 12345 | 10/10/2024 | 10/11/24 | an introductory mathematics course designed to provide students with fundamental mathematical concepts and problem-solving skills. | 10 | 5 | 12 | Fall | Fall, 2024 |

Course\_Name:

* + Description: The name of the course
  + Data Type: String
  + Constraints: NOT NULL
* Course\_ID:
  + Description: The id of the course
  + Data Type: Integer
  + Constraints: NOT NULL
* Midterm\_1:
  + Description: The score of the first midterm exam.
  + Data Type: Integer
* Midterm\_2:
  + Description: The score of the second midterm exam.
  + Data Type: Integer
* Final\_Exam:
  + Description: The Score of the Final Exam.
  + Data Type: Integer
  + Constraints: NOT NULL
* Student\_ID (Foreign Key):
  + Description: A reference to the department to which the course belongs.
  + Data Type: Integer
  + Constraints: NOT NULL
* Start\_Date:
  + Description: The start date of the course.
  + Data Type: DATE
  + Constraints: NOT NULL
* End\_Date:
  + Description: The end date of the course.
  + Data Type: DATE
  + Constraints: NOT NULL
* Description:
  + Description: Additional information or description about the course.
  + Data Type: TEXT (String)
* Credit\_Hours:
  + Description: The number of credit hours associated with the course.
  + Data Type: Integer
  + Constraints: NOT NULL
* Section\_Number:
  + Description: The section number or code for the course (e.g., "Section A").
  + Data Type: String
  + Constraints: NOT NULL
* Room\_ID (Foreign Key):
  + Description: A reference to the room or location where the course is held.
  + Data Type: Integer
  + Constraints: NOT NULL, REFERENCES Rooms (Room\_ID)

Semester:

* Description: Information about which semester or academic term a particular course is offered (e.g., Some courses may not be available in Summer)
* Data Type: String
* Constraint: NOT NULL
* Course\_Taken\_Date:
  + Description: When the course was/is being taken (Format: Semester, Year).
  + Data Type: String
  + Constraints: NOT NULL
* Cost:
  + Description: The cost of tuition associated with the course.
  + Data Type: Integer
  + Constraints: NOT NULL

**Department Table:**

These fields in the "Departments" table provide information about various organizational departments, including their names, descriptions, and the total number of employees associated with each department. The department table references the student table.

| Department\_ID | Department\_Name | Description | Total\_Employees |
| --- | --- | --- | --- |
| 1378328 | Computer Science | an academic department that focuses on the study, research, and advancement of computer science related to computing, algorithms, data analysis, software development, artificial intelligence, and computer systems. | 59 |

Department\_ID (Primary Key):

* Description: A unique identifier for each department.
* Data Type: Integer
* Constraints: NOT NULL, UNIQUE

Department\_Name:

* Description: The name or title of the department.
* Data Type: String
* Constraints: NOT NULL

Description:

* Description: Additional information or description about the department.
* Data Type: String

Total\_Employees:

* Description: The total number of employees working in the department.
* Data Type: Integer
* Constraints: NOT NULL

**Table #4: Department\_Staff**

The "Department\_Staff" table contains information about staff members in various departments, including their personal details, department affiliation, and salary. The department staff table references the department table as departments have department staff.

| Staff\_ID | Staff\_Fname | Staff\_Lname | Staff\_Gender | Staff\_Date\_of\_Birth | Staff\_Address | Staff\_Email | Staff\_Salary | Department\_ID | Employee\_Type |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1276 | Mary | Jane | Female | 10/20/03 | 143 Huntington, Ave | Jane234@mylaurier.ca | 128/hr | 11 | Part-time |

Staff\_ID (Primary Key):

* Description: A unique identifier for each department staff member.
* Data Type: Integer
* Constraints: NOT NULL, UNIQUE

Staff\_Fname:

* Description: The first name of the department staff member.
* Data Type: String
* Constraints: NOT NULL

Staff\_Lname:

* Description: The last name of the department staff member.
* Data Type: String
* Constraints: NOT NULL

Staff\_Gender:

* Description: The gender or sex of the department staff member (e.g., male, female, non-binary).
* Data Type: String

Staff\_Date\_of\_Birth:

* Description: The date of birth of the department staff member.
* Data Type: DATE
* Constraints: NOT NULL

Staff\_Address:

* Description: The current address of the department staff member.
* Data Type: String

Staff\_Email:

* Description: The email address of the department staff member.
* Data Type: String
* Constraints: NOT NULL

Staff\_Salary:

* Description: The salary or compensation for the department staff member.
* Data Type: DECIMAL or FLOAT (Decimal or Floating-Point Number)
* Constraints: NOT NULL

Department\_ID (Foreign Key):

* Description: A reference to the department to which the staff member belongs.
* Data Type: Integer
* Constraints: NOT NULL, REFERENCES Departments(Department\_ID)

Employee\_Type (Staff):

* Description: Indicates if the employee is part-time, full-time, or temporary.
* Data Type: String
* Constraints: NOT NULL

***Code:***

CREATE TABLE Student\_Info(

Student\_ID INT PRIMARY KEY,

Student\_Fname VARCHAR(65),

Student\_Lname VARCHAR(65),

Student\_Year VARCHAR(65),

Student\_Major VARCHAR(60),

Student\_Minor VARCHAR(60),

Student\_GPA FLOAT,

Student\_Type INT,

Courses\_Passed INT,

Courses\_Failed INT,

Student\_Staff INT,

Department\_ID VARCHAR(40),

Student\_Date\_of\_Birth VARCHAR(20),

Student\_Age INT,

Student\_Gender VARCHAR(8),

Student\_Address VARCHAR(400),

Student\_Phone VARCHAR(10),

Student\_Emai VARCHAR(25)

);

INSERT INTO Student\_Info (Student\_ID, Student\_Fname, Student\_Lname, Student\_Year, Student\_Major, Student\_Minor, Student\_GPA, Student\_Type, Courses\_Passed, Courses\_Failed, Student\_Staff, Department\_ID, Student\_Date\_of\_Birth, Student\_Age, Student\_Gender, Student\_Address, Student\_Phone, Student\_Emai)

VALUES

(1, 'John', 'Doe', 'Freshman', 'Computer Science', 'Mathematics', 3.8, 1, 4, 1, 0, 'CS', '1990-01-01', 22, 'Male', '123 Main Street, Anytown, CA 91234', '1234567890', 'johndoe@example.com'),

(2, 'Jane', 'Smith', 'Sophomore', 'Business Administration', 'Marketing', 3.6, 1, 5, 2, 0, 'BA', '1991-02-02', 21, 'Female', '456 Elm Street, Anytown, CA 91234', '4567890123', 'janesmith@example.com'),

(3, 'Bob', 'Jones', 'Junior', 'Engineering', 'Mechanical Engineering', 3.4, 1, 6, 3, 0, 'EN', '1992-03-03', 20, 'Male', '789 Oak Street, Anytown, CA 91234', '7890123456', 'bob琼斯@example.com'),

(4, 'Mary', 'Johnson', 'Senior', 'Education', 'Elementary Education', 3.2, 1, 7, 4, 0, 'ED', '1993-04-04', 19, 'Female', '1011 Pine Street, Anytown, CA 91234', '1011121234', 'maryjohnson@example.com'),

(5, 'Tom', 'Brown', 'Graduate', 'Law', 'Criminal Justice', 3.0, 2, 8, 5, 0, 'LW', '1994-05-05', 18, 'Male', '1213 Maple Street, Anytown, CA 91234', '1211231345', 'tombrown@example.com'),

(6, 'Susan', 'Williams', 'Graduate', 'Business Administration', 'Finance', 2.8, 2, 9, 6, 0, 'BA', '1995-06-06', 17, 'Female', '1314 Birch Street, Anytown, CA 91234', '1311341456', 'susanw威廉姆斯@example.com'),

(7, 'David', 'Walker', 'Graduate', 'Engineering', 'Civil Engineering', 2.6, 2, 10, 7, 0, 'EN', '1996-07-07', 16, 'Male', '1415 Cedar Street, Anytown, CA 91234', '1411451567', 'davidwalker@example.com'),

(8, 'Sarah', 'Anderson', 'Graduate', 'Education', 'Curriculum and Instruction', 2.4, 2, 11, 8, 0, 'ED', '1997-08-08', 15, 'Female', '1516 Cypress Street, Anytown, CA 91234', '1511561678', 'saraherson@example.com'),

(9, 'Michael', 'Johnson', 'Graduate', 'Law', 'International Law', 2.2, 2, 12, 9, 0, 'LW', '1998-09-09', 14, 'Male', '1617 Dogwood Street, Anytown, CA 91234', '1611671789', 'michohnson@example.com')

INSERT INTO Student\_Info (Student\_ID, Student\_Fname, Student\_Lname, Student\_Year, Student\_Major, Student\_Minor, Student\_GPA, Student\_Type, Courses\_Passed, Courses\_Failed, Student\_Staff, Department\_ID, Student\_Date\_of\_Birth, Student\_Age, Student\_Gender, Student\_Address, Student\_Phone, Student\_Emai)

VALUES

(9345, 'Michael', 'Johnson', 'Graduate', 'Law', 'International Law', 2.2, 2, 12, 9, 0, 'LW', '1998-09-09', 14, 'Male', '1617 Dogwood Street, Anytown, CA 91234', '1611671789', 'michohn@example.com'),

(15620, 'Ashley', 'Williams', 'Undergraduate', 'Business', 'Accounting', 3.8, 1, 18, 3, 0, 'BU', '1999-05-15', 13, 'Female', '456 Oak Avenue, Anytown, CA 91234', '1611671789', 'ashleyams@exe.com'),

(12561, 'Daniel', 'Smith', 'Graduate', 'Engineering', 'Computer Science', 3.5, 2, 15, 6, 0, 'EN', '1997-11-23', 15, 'Male', '123 Maple Street, Anytown, CA 91234', '1611671789', 'danith@example.com'),

(1652, 'Jessica', 'Jones', 'Undergraduate', 'Education', 'Elementary Education', 3.2, 1, 12, 9, 0, 'ED', '2000-03-08', 12, 'Female', '789 Elm Street, Anytown, CA 91234', '1611671789', 'jcajones@example.com'),

(124563, 'Christopher', 'Brown', 'Undergraduate', 'Science', 'Biology', 3.0, 1, 15, 6, 0, 'SC', '1999-09-19', 13, 'Male', '1011 Pine Street, Anytown, CA 91234', '1611671789', 'chriown@example.com'),

(764314, 'Samantha', 'Davis', 'Graduate', 'Business', 'Finance', 3.7, 2, 18, 3, 0, 'BU', '1998-07-11', 14, 'Female', '1234 Willow Street, Anytown, CA 91234', '1611671789', 'samanis@example.com'),

(634715, 'William', 'Miller', 'Undergraduate', 'Engineering', 'Mechanical Engineering', 3.3, 1, 15, 6, 0, 'EN', '2000-01-17', 12, 'Male', '5678 Oak Avenue, Anytown, CA 91234', '1611671789', 'wmmiller@example.com'),

(16467, 'Olivia', 'Wilson', 'Graduate', 'Education', 'Curriculum and Instruction', 3.9, 2, 18, 3, 0, 'ED', '1997-12-29', 15, 'Female', '9012 Elm Street, Anytown, CA 91234', '1611671789', 'olivon@example.com'),

(14767, 'Joseph', 'Taylor', 'Undergraduate', 'Science', 'Chemistry', 3.1, 1, 12, 9, 0, 'SC', '1999-05-03', 13, 'Male', '3456 Pine Street, Anytown, CA 91234', '1611671789', 'jlor@example.com');

CREATE TABLE Courses(

Course\_Name VARCHAR(60),

Course\_ID INT PRIMARY KEY,

Midterm\_1 INT,

Midterm\_2 INT,

Final\_Exam INT,

Student\_ID INT,

Start\_Date VARCHAR(60),

End\_Date VARCHAR(60),

Credit\_Hours INT,

Section\_Number VARCHAR(2),

Room\_ID VARCHAR(5),

Semester VARCHAR(15),

Course\_taken\_Date VARCHAR(15),

Description VARCHAR(400)

);

INSERT INTO Courses (Course\_Name, Course\_ID, Midterm\_1, Midterm\_2, Final\_Exam, Student\_ID, Start\_Date, End\_Date, Credit\_Hours, Section\_Number, Room\_ID, Semester, Course\_taken\_Date, Description)

VALUES

('Introduction to Computer Science', 101, 85, 90, 95, 1001, '2023-01-16', '2023-05-05', 3, 'A', '101', 'Spring 2023', '2023-05-05', 'This course is an introduction to the field of computer science.'),

('Data Structures and Algorithms', 201, 90, 95, 100, 1002, '2023-01-16', '2023-05-05', 3, 'B', '201', 'Spring 2023', '2023-05-05', 'This course covers the fundamental data structures and algorithms used in computer science.'),

('Operating Systems', 301, 85, 90, 95, 1003, '2023-01-16', '2023-05-05', 3, 'C', '301', 'Spring 223', '2023-05-05', 'This course covers the principles of operating systems.'),

('Computer Networks', 401, 80, 85, 90, 1004, '2023-01-16', '2023-05-05', 3, 'D', '401', 'Spring 2023', '2023-05-05', 'This course covers the principles of computer networks.'),

('Software Engineering', 501, 75, 80, 85, 1005, '2023-01-16', '2023-05-05', 3, 'E', '501', 'Spring 2023', '2023-05-05', 'This course covers the principles of software engineering.'),

('Artificial Intelligence', 601, 70, 75, 80, 1006, '2023-01-16', '2023-05-05', 3, 'F', '601', 'Spring 2023', '2023-05-05', 'This course covers the principles of artificial intelligence.'),

('Machine Learning', 701, 65, 70, 75, 1007, '2023-01-16', '2023-05-05', 3, 'G', '701', 'Spring 2023', '2023-05-05', 'This course covers the principles of machine learning.'),

('Deep Learning', 801, 60, 65, 70, 1008, '2023-01-16', '2023-05-05', 3, 'H', '801', 'Spring 2023', '2023-05-05', 'This course covers the principles of deep learning.'),

('Natural Language Processing', 901, 55, 60, 65, 1009, '2023-01-16', '2023-05-05', 3, 'I', '901', 'Spring 2023', '2023-05-05', 'This course covers the principles of natural language processing.'),

('Computer Vision', 1001, 50, 55, 60, 1010, '2023-01-16', '2023-05-05', 3, 'J', '1001', 'Spring 2023', '2023-05-05', 'This course covers the principles of computer vision.');

CREATE TABLE Department(

Department\_ID INT PRIMARY KEY,

Department\_Name VARCHAR(60),

Total\_Employees INT,

Description VARCHAR(800)

);

INSERT INTO Department (Department\_ID, Department\_Name, Total\_Employees, Description)

VALUES

(311, 'Math Department', 33, 'A department in charge of math courses'),

(312, 'Science Department', 45, 'A department in charge of science courses'),

(313, 'History Department', 28, 'A department in charge of history courses'),

(314, 'English Department', 38, 'A department in charge of English courses'),

(315, 'Computer Science Department', 55, 'A department in charge of computer science courses'),

(316, 'Business Department', 42, 'A department in charge of business courses'),

(317, 'Art Department', 25, 'A department in charge of art courses'),

(318, 'Music Department', 30, 'A department in charge of music courses');

CREATE TABLE Department(

Department\_ID INT PRIMARY KEY,

Department\_Name VARCHAR(60),

Total\_Employees INT,

Description VARCHAR(800)

);

INSERT INTO Department (Department\_ID, Department\_Name, Total\_Employees, Description)

VALUES

(311, 'Math Department', 33, 'A department in charge of math courses'),

(312, 'Science Department', 45, 'A department in charge of science courses'),

(313, 'History Department', 28, 'A department in charge of history courses'),

(314, 'English Department', 38, 'A department in charge of English courses'),

(315, 'Computer Science Department', 55, 'A department in charge of computer science courses'),

(316, 'Business Department', 42, 'A department in charge of business courses'),

(317, 'Art Department', 25, 'A department in charge of art courses'),

(318, 'Music Department', 30, 'A department in charge of music courses');

CREATE TABLE Department\_Staff(

Staff\_ID INT PRIMARY KEY,

Staff\_Fname VARCHAR(60),

Staff\_Lname VARCHAR (60),

Staff\_Gender VARCHAR(50),

Staff\_Date\_of\_Birth VARCHAR(50),

Staff\_Address VARCHAR(500),

Staff\_Email VARCHAR (200),

Staff\_Salary INT,

Department\_ID INT,

Employee\_Type VARCHAR(40)

);

INSERT INTO Department\_Staff (Staff\_ID, Staff\_Fname, Staff\_Lname, Staff\_Gender, Staff\_Date\_of\_Birth, Staff\_Address, Staff\_Email, Staff\_Salary, Department\_ID, Employee\_Type)

VALUES

(2, 'Jane', 'Doe', 'Female', '1991-02-02', '456 Elm Street', 'jane.doe@example.com', 60000, 2, 'Part-time'),

(3, 'John', 'Smith', 'Male', '1985-05-05', '123 Main Street', 'john.smith@example.com', 75000, 1, 'Full-time'),

(4, 'Mary', 'Jones', 'Female', '1977-10-10', '789 Oak Street', 'mary.jones@example.com', 80000, 3, 'Part-time'),

(5, 'Tom', 'Brown', 'Male', '1969-12-12', '456 Maple Street', 'tom.brown@example.com', 90000, 2, 'Full-time'),

(6, 'Susan', 'Williams', 'Female', '1955-03-03', '123 Pine Street', 'susan.williams@example.com', 100000, 1, 'Part-time'),

(7, 'David', 'Walker', 'Male', '1941-06-06', '789 Birch Street', 'david.walker@example.com', 110000, 3, 'Full-time'),

(8, 'Margaret', 'Johnson', 'Female', '1933-09-09', '456 Cedar Street', 'margaret.johnson@example.com', 120000, 2, 'Part-time'),

(9, 'Charles', 'Anderson', 'Male', '1925-12-12', '123 Willow Street', 'charles.anderson@example.com', 130000, 1, 'Full-time'),

(10, 'Sarah', 'Taylor', 'Female', '1917-03-03', '789 Poplar Street', 'sarah.taylor@example.com', 140000, 3, 'Part-time');