Faculty of Arts and Science Department of Statistics

STAT311

Modern Database Systems

Term Project "School Management System"

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METU

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Introduction

The management of educational purposes is a crucial component for modern academic systems to ensure the organization of students, teachers, courses and other related stuff. The aim of the School Management System is to develop a simple and effective database driven system that meets the following objectives:

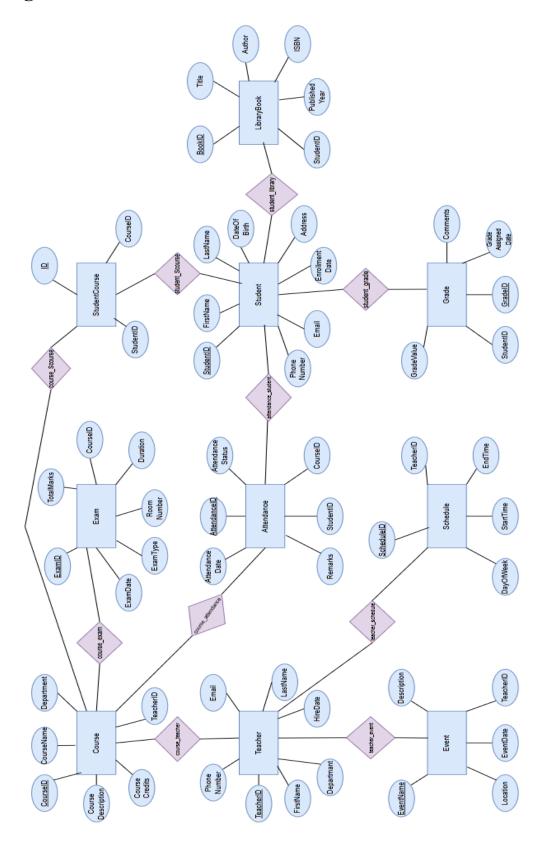
- Effective management of students, teachers, courses and grades
- Attendance records for students in specific courses
- Grade assignments for individual students
- Scheduling and management of exams and events
- Storing detailed records of books

Initially, we designed our project with a user-friendly interface. The initial design consists of two separate screens for students and teachers but since the user interface design is not needed, we removed that part from our project.

Our project is designed under normalization rules. In this project, we developed the database management system with PhpMyAdmin, a web-based tool that simplifies database management. This project demonstrates the core functionality expected from a school management system, providing a foundation for further extension and improvement.

The Student, Teacher and Event tables were created by Bora Esen. The Schedule and LibraryBook tables were created by İren Su Çelik. Emirhan Kıran did the Grade and Exam tables. And lastly, Course and Attendance tables were created by Ata Adanur. The data were prepared by the person who created the tables. The relations were done by all group members together.

ER Diagram



Schema Design

The schema and their properties are developed in the PhpMyAdmin. Let us give the table designs with the properties;

Attendance Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	AttendanceID	int(11)			No	None	AUTO_INCREMENT
2	AttendanceDate	date			Yes	NULL	
3	AttendanceStatus	enum('Present', 'Absent', 'Late')	utf8_general_ci		Yes	NULL	
4	Remarks	text	utf8_general_ci		Yes	NULL	
5	StudentID	int(11)			Yes	NULL	
6	CourseID	int(11)			Yes	NULL	

AttendanceID is the primary key of this table. AttendanceDate is the date of the corresponding record. AttendanceStatus denotes the status by 3 options, "Present", "Absent" and "Late". Remarks is an optional part for denoting the reason of the status. For example, if the status is "Late" for a record, Remarks could be "Traffic issues" or so. StudentID is a foreign key from Student table that indicates the student's id related with the corresponding record. CourseID is a foreign key from Course table that shows the id of the course for which the attendance record is recorded.

Course Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	CourseID	int(11)			No	None	AUTO_INCREMENT
2	CourseName	varchar(100)	utf8_general_ci		Yes	NULL	
3	CourseDescription	text	utf8_general_ci		Yes	NULL	
4	CourseCredits	int(11)			Yes	NULL	
5	Department	varchar(50)	utf8_general_ci		Yes	NULL	
6	TeacherID	int(11)			Yes	NULL	

CourseID is the primary key of this table. CourseName is the indicator for the name of the course. CourseDescription is for the detailed description of the course. CourseCredits denotes the credits for the corresponding course. Department entity is used to indicate the department in which course is given under. Lastly, TeacherID is a foreign key for this table which indicates the lecturer's id. Note that we designed our system as one teacher can give only one course.

Event Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	EventName	varchar(100)	utf8_general_ci		Yes	NULL	
2	Location	varchar(100)	utf8_general_ci		No	None	
3	Description	varchar(500)	utf8_general_ci		No	None	
4	EventDate	date			No	None	
5	TeacherID	int(11)			Yes	NULL	

In this database project, we designed this entity as a weak entity with the ownership of Teacher table. As a result of this, TeacherID was added to the entity as foreign key. EventName is the name of the events. Location denotes where the event will happen. Description is for description of the event. EventDate indicates the date of the event.

Exam Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	ExamID	int(11)			No	None	AUTO_INCREMENT
2	ExamDate	date			No	None	
3	TotalMarks	int(11)			No	None	
4	ExamType	varchar(50)	utf8_general_ci		No	None	
5	RoomNumber	varchar(20)	utf8_general_ci		No	None	
6	Duration	time			No	None	
7	CourseID	int(11)			Yes	NULL	

ExamID is the primary key of this table. ExamDate denotes when the exam is taking place. TotalMarks shows how many points the exam will be evaluated on. ExamType is to denote the exams type. RoomNumber is the place where the exam will be done. Duration is the total time for solving the exam. CourseID is added this table as a foreign key to denote the ID of the course which the exam belongs.

Grade Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	<u>GradeID</u>	int(11)			No	None	AUTO_INCREMENT
2	GradeValue	float			Yes	NULL	
3	Comments	text	utf8_general_ci		Yes	NULL	
4	GradeAssignedDate	date			No	None	
5	StudentID	int(11)			Yes	NULL	

GradeID is the primary key of the Grade table. GradeValue is the overall point average for the corresponding student. Comments are the teacher's comments on the overall point average. GradeAssignedDate is the date when grades are assigned to the corresponding student. Also, StudentID is added this table as foreign key to denote the id of the student.

LibraryBook Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	BookID	int(11)			No	None	AUTO_INCREMENT
2	Title	varchar(200)	utf8_general_ci		No	None	
3	Author	varchar(100)	utf8_general_ci		No	None	
4	ISBN	varchar(20)	utf8_general_ci		No	None	
5	PublishedYear	year(4)			No	None	
6	StudentID	int(11)			Yes	NULL	

BookID is the primary key of this table. Title denotes the title of the book. Author denotes the author of the book. ISBN is for the International Standard Book Number of the book, and it is unique for this table. PublishedYear is the publication year of the book. Lastly, StudentID is added this table as foreign key to denote the borrower information of the student, if the book is borrowed. If not, the cell remain as null.

Schedule Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	<u>ScheduleID</u>	int(11)			No	None	AUTO_INCREMENT
2	DayOfWeek	varchar(20)	utf8_general_ci		No	None	
3	StartTime	time			No	None	
4	EndTime	time			No	None	
5	TeacherID	int(11)			Yes	NULL	

ScheduleID is the primary key for this table. DayOfWeek denotes the day of the week when schedule applies. StartTime attribute is for the start time of the scheduled session, and EndTime is for the end time of the scheduled session. TeacherID is the identifier of the teacher for the scheduled session and added this table as the foreign key.

Student Schema

#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	StudentID	int(11)			No	None	AUTO_INCREMENT
2	FirstName	varchar(50)	utf8_general_ci		No	None	
3	LastName	varchar(50)	utf8_general_ci		No	None	
4	DateOfBirth	date			No	None	
5	Address	varchar(255)	utf8_general_ci		No	None	
6	PhoneNumber	varchar(15)	utf8_general_ci		No	None	
7	Email	varchar(100)	utf8_general_ci		No	None	
8	EnrollmentDate	date			No	None	

StudentID is the primary key for this table. FirstName is the first name of the student. LastName is the last name of the student. DateOfBirth is the birth date of the student. Address attribute is for denoting the address of the student. PhoneNumber is for denoting phone number

of the student, and it is unique. Email attribute denotes email of the student, and it is unique. EnrollmentDate is for the date the student enrolled.

StudentCourse Schema

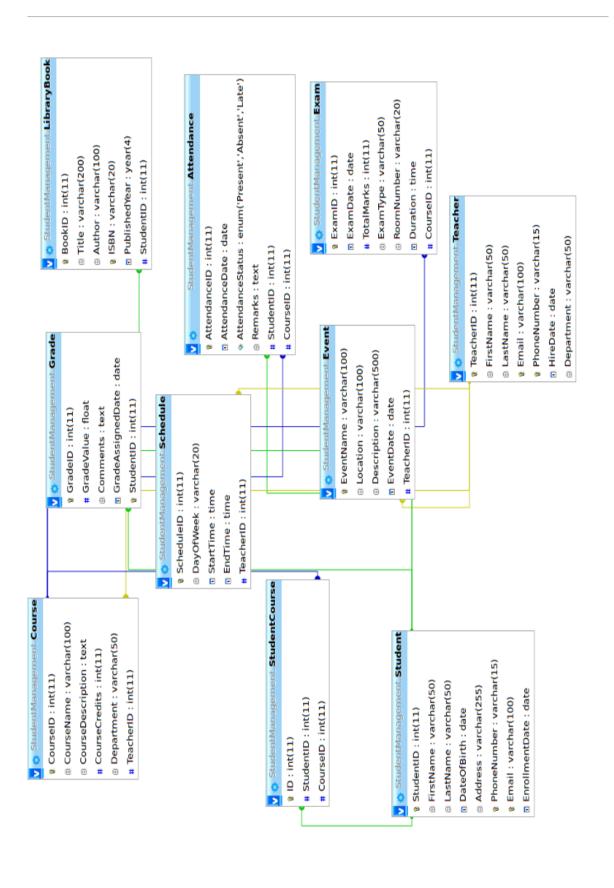
#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	ID	int(11)			No	None	AUTO_INCREMENT
2	StudentID	int(11)			No	None	
3	CourseID	int(11)			No	None	

This table is created as a junction table to ensure that a student can take more than one course. ID attribute is created as a primary key to this table. The StudentID is the identifier for the student and CourseID is the identifier for the course. Both of them are set as foreign keys.

Teacher Schema

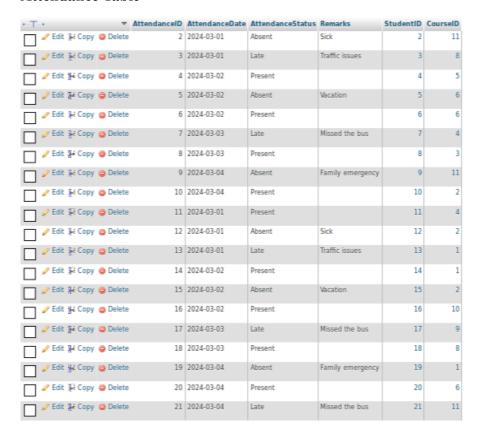
#	Name	Туре	Collation	Attributes	Null	Default	Extra
1	<u>TeacherID</u>	int(11)			No	None	AUTO_INCREMENT
2	FirstName	varchar(50)	utf8_general_ci		No	None	
3	LastName	varchar(50)	utf8_general_ci		No	None	
4	Email	varchar(100)	utf8_general_ci		No	None	
5	PhoneNumber	varchar(15)	utf8_general_ci		No	None	
6	HireDate	date			No	None	
7	Department	varchar(50)	utf8_general_ci		No	None	

TeacherID is the primary key for this table. FirstName is for first name of the teacher and LastName is the last name of the teacher. Email is for teacher's email, and it is unique. PhoneNumber is for the teacher's phone number, and it is unique. HireDate is the hiring date of the teacher. And lastly, Department is the department that teacher is associated with.



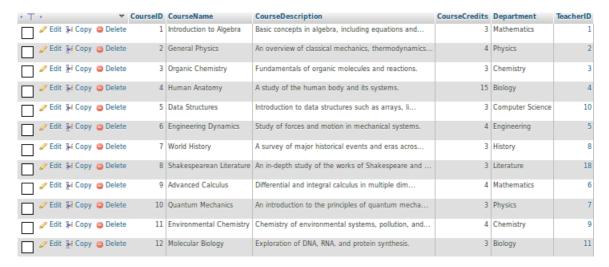
Populated Tables

Attendance Table



Attendance table consists of 20 entries.

CourseTable



Course table consists of 12 entries.

Event Table



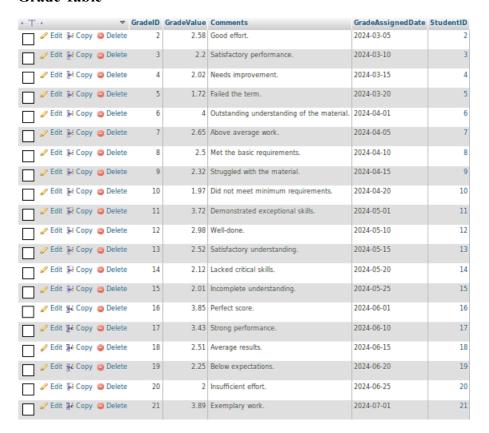
Event table consists of 6 entries.

Exam Table



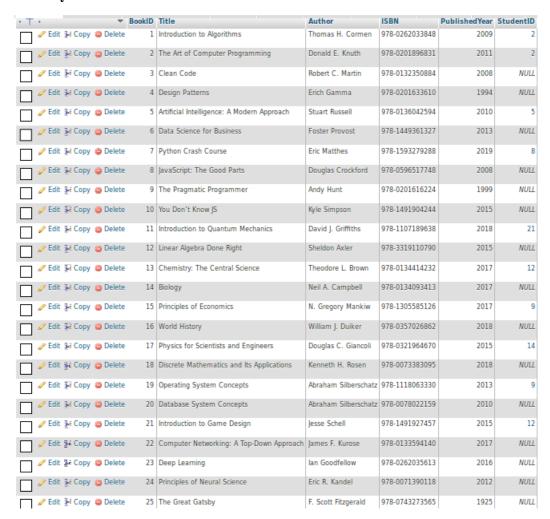
Exam table consist of 20 entries.

Grade Table



Grade table consists of 20 entries.

LibraryBook Table



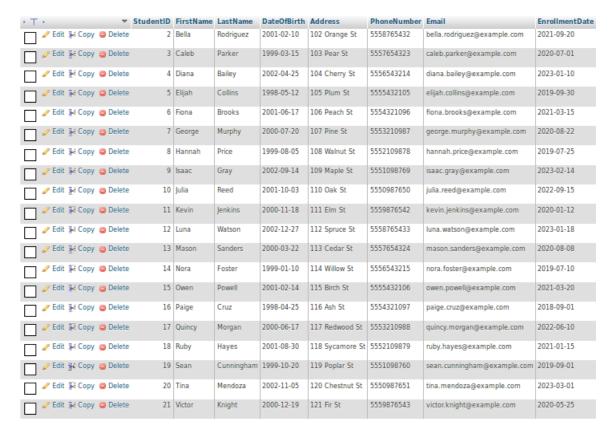
LibraryBook table consists of 30 entries.

Schedule Table



Schedule table consists of 12 entries.

Student Table



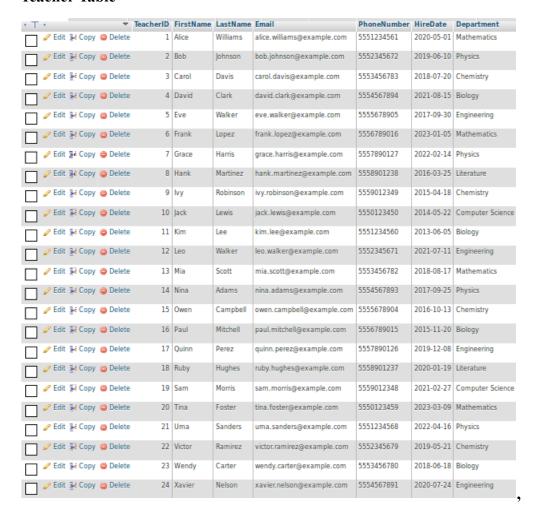
Student table consists of 20 entries

StudentCourse Table



StudentCourse table consists of 20 entries.

Teacher Table



Teacher table consists of 24 entries.

Summary

Our School Management System displays basic functionality of a school management system with 10 tables: Attendance, Course, Event, Exam, Grade, LibraryBook, Schedule, Student, StudentCourse and Teacher. This database-driven system achieves efficient management of students, teachers, courses and grades, also achieves simplified attendance and library book tracking. Moreover, our system manages schedules of the courses, exams and events. StudentCourse table allows students to enroll in more than one course.

Some Example Queries

Queries were done by using terminal. The database is connected to the terminal via Python by using pymysql library. We had some difficulties in connecting the database to the terminal, but

we've solved it by installing SSL to the virtual computer. Team members have created 4 queries per person. The resulting 16 SQL queries and their results are shown below as screenshots of terminal. These queries were designed to test the CRUD functionality of the project. The query files could be seen in the zip file.

1)

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_235tudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

sursor.execute("""

INSERT INTO Student (FirstName, LastName, DateOfBirth, Address, PhoneNumber, Email, EnrollmentDate)

VALUES ('Ethan', 'Clark', '2002-05-30', '456 Elm St', '5551239876', 'ethan.clark@example.com', '2024-09-01')

""")

connection.commit()
print("Student record created successfully")

connection.close()
```

student@student:~/Desktop\$ python3 query1.py Connection Established Student record created successfully

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("""

INSERT INTO Teacher (FirstName, LastName, Email, PhoneNumber, HireDate, Department)

VALUES ('Emma', 'Johnson', 'emma.johnson@example.com', '5557891234', '2023-01-15',
    'Mathematics')

""")

connection.commit()

print("Teacher record created successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query2.py
Connection Established
Teacher record created successfully
```

```
import pymysql
connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")
cursor = connection.cursor()

print("Connection Established")

cursor.execute("""
INSERT INTO Course (CourseName, CourseDescription, CourseCredits, Department, TeacherID)
VALUES ('Introduction to Python', 'Basics of Python programming', 3, 'Computer Science', 4)
""")
connection.commit()
print("Course record created successfully")
connection.close()
```

student@student:~/Desktop\$ python3 query3.py Connection Established Course record created successfully

```
import pymysql
connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")
cursor = connection.cursor()

print("Connection Established")

cursor.execute("""
INSERT INTO LibraryBook (Title, Author, ISBN, PublishedYear, StudentID)
VALUES ('Introduction to AI', 'John Doe', '978-1234567890', 2021, 2)
""")
connection.commit()
print("Library book record created successfully")
connection.close()
```

```
student@student:~/Desktop$ python3 query4.py
Connection Established
Library book record created successfully
```

```
1 import pymysql
2
3 connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_", database="SchoolManagement")
4 cursor = connection.cursor()
5 print("Connection Established")
7 # Query to retrieve schedule details
8 query = """
9 $SELECT
10 Teacher.FirstName, ' ', Teacher.LastName) AS TeacherName,
11 CONCAT(Teacher.FirstName, ' ', Teacher.LastName) AS TeacherName,
12 Teacher.Department,
13 Schedule.DayOfWeek,
14 Schedule.BayOfWeek,
15 Schedule.EndTime
16 FROM
17 Teacher
18 INNER JOIN
19 Schedule ON Teacher.TeacherID = Schedule.TeacherID
20 GROER BY
21 Schedule.DayOfWeek, Schedule.StartTime;
22 """
23 I
24 cursor.execute(query)
25 # Fetching and printing the results
27 myresult = cursor.fetchall()
28 for x in myresult:
29 print(x)
30
31 # Closing the connection
32 connection.close()
```

```
student@student:-$ cd Desktop
student@student:-/Desktop$ python3 query5.py
Connection Established
(6, 'Frank Lopez', 'Mathematics', 'Friday', datetime.timedelta(seconds=50400), datetime.timedelta(seconds=57600))
(16, 'Paul Mitchell', 'Biology', 'Friday', datetime.timedelta(seconds=57600), datetime.timedelta(seconds=64800))
(8, 'Hank Martinez', 'Literature', 'Monday', datetime.timedelta(seconds=39600), datetime.timedelta(seconds=34800))
(13, 'Mia Scott', 'Mathematics', 'Saturday', datetime.timedelta(seconds=30600), datetime.timedelta(seconds=37800))
(12, 'Leo Walker', 'Engineering', 'Sunday', datetime.timedelta(seconds=43200), datetime.timedelta(seconds=50400))
(2, 'Bob Johnson', 'Physics', 'Thursday', datetime.timedelta(seconds=28800), datetime.timedelta(seconds=36000))
(5, 'Eve Walker', 'Chemistry', 'Tuesday', datetime.timedelta(seconds=36000), datetime.timedelta(seconds=43200))
(9, 'Ivy Robinson', 'Chemistry', 'Tuesday', datetime.timedelta(seconds=54000), datetime.timedelta(seconds=61200))
(11, 'Kim Lee', 'Biology', 'Wednesday', datetime.timedelta(seconds=32400), datetime.timedelta(seconds=39600))
(7, 'Grace Harris', 'Physics', 'Wednesday', datetime.timedelta(seconds=46800), datetime.timedelta(seconds=54000))
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_", database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established" |

dury to retrieve exam details
query to retrieve exam details
query = """

Exam.ExamIt,
Course.CourseName,
Exam.ExamType,
Exam.TotalMarks,
Exam.ExamJote,
Exam.TotalMarks,
Exam.RoonNumber

Course ON Exam.CourseID = Course.CourseID

course ON Exam.
```

```
Connection Established

(41, 'Introduction to Algebra', 'Midterm', 100, datetime.date(2024, 3, 1), 'R101')

(42, 'Introduction to Algebra', 'Final', 100, datetime.date(2024, 3, 15), 'R102')

(43, 'Advanced Calculus', 'Quiz', 50, datetime.date(2024, 4, 10), 'R201')

(44, 'Organic Chemistry', 'Assignment', 70, datetime.date(2024, 4, 25), 'R202')

(45, 'Molecular Biology', 'Midterm', 80, datetime.date(2024, 5, 5), 'R103')

(46, 'Human Anatomy', 'Final', 100, datetime.date(2024, 5, 20), 'R104')

(47, 'World History', 'Class Test', 30, datetime.date(2024, 6, 1), 'R301')

(48, 'General Physics', 'Project', 60, datetime.date(2024, 6, 15), 'R302')

(49, 'Shakespearean Literature', 'Midterm', 50, datetime.date(2024, 7, 5), 'R401')

(50, 'Engineering Dynamics', 'Final', 100, datetime.date(2024, 8, 1), 'R501')

(51, 'Advanced Calculus', 'Quiz', 20, datetime.date(2024, 8, 10), 'R502')

(53, 'Shakespearean Literature', 'Midterm', 75, datetime.date(2024, 9, 5), 'R601')

(54, 'Engineering Dynamics', 'Final', 100, datetime.date(2024, 9, 20), 'R602')

(55, 'World History', 'Class Test', 40, datetime.date(2024, 10, 1), 'R701')

(56, 'General Physics', 'Project', 60, datetime.date(2024, 10, 15), 'R702')

(57, 'Molecular Biology', 'Midterm', 90, datetime.date(2024, 11, 1), 'R801')

(58, 'Engineering Dynamics', 'Final', 100, datetime.date(2024, 11, 20), 'R802')

(59, 'Advanced Calculus', 'Quiz', 25, datetime.date(2024, 12, 5), 'R901')

(60, 'Organic Chemistry', 'Assignment', 50, datetime.date(2024, 12, 5), 'R901')
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("SELECT * FROM Event WHERE EventDate BETWEEN '2024-01-01' AND '2025-01-01'")

myresult = cursor.fetchall()
for x in myresult:
    print(x)

connection.close()
```

```
student@student:-/Desktop$ python3 query7.py
Connection Established
('Science Fair', 'Main Auditorium', 'An exhibiton of science projects\r\nand experiments.', datetime.date(2024, 3, 15), 14)
('Math Olympiad', 'Lecture Hall A', 'A competitive math event for\r\nadvanced problem solving. ', datetime.date(2024, 4, 10), 6)
('Goding Hackathon', 'Computer Lab 1', 'A 24-hour programming\r\ncompetition.', datetime.date(2024, 5, 25), 10)
('Literature Reading', 'Library Conference Room', 'A literary event\r\nfeaturing readings and discussions.', datetime.date(2024, 6, 12), 18)
('Physics Workshop', 'Engineering Workshop Room', 'A practical session\r\non physics experiments.', datetime.date(2024, 7, 20), 21)
('AI Workshop', 'Computer Science Lab', 'Hands-on workshop on AI\r\nbasics.', datetime.date(2024, 12, 30), 1)
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_235tudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("SELECT * FROM Attendance WHERE AttendanceStatus='Absent'")

myresult = cursor.fetchall()
for x in myresult:
    print(x)

connection.close()
```

```
student@student:~/Desktop$ python3 query8.py
Connection Established
(2, datetime.date(2024, 3, 1), 'Absent', 'Sick', 2, 11)
(5, datetime.date(2024, 3, 2), 'Absent', 'Vacation', 5, 6)
(9, datetime.date(2024, 3, 4), 'Absent', 'Family emergency', 9, 11)
(12, datetime.date(2024, 3, 1), 'Absent', 'Sick', 12, 2)
(15, datetime.date(2024, 3, 2), 'Absent', 'Vacation', 15, 2)
(19, datetime.date(2024, 3, 4), 'Absent', 'Family emergency', 19, 1)
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("""

PUPDATE Student

SET Address='789 Pine St', PhoneNumber='111222333'

WHERE StudentID=3

""")

connection.commit()

print("Student record updated successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query9.py
Connection Established
Student record updated successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("""

pupDATE Teacher

SET Department='Chemistry'

WHERE TeacherID=5

""")

connection.commit()

print("Teacher record updated successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query10.py
Connection Established
Teacher record updated successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("""

PUPDATE LibraryBook
SET Title='Advanced AI Concepts'
WHERE BookID=1
""")

connection.commit()
print("Library book record updated successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query11.py
Connection Established
Library book record updated_successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_235tudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("""

pupDATE Event

SET Location='Conference Room A'

WHERE EventName='Science Fair'

""")

connection.commit()

print("Event updated successfully")

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```

```
student@student:~/Desktop$ python3 query12.py
Connection Established
Event updated successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("DELETE FROM Student WHERE StudentID=4")

connection.commit()
print("Student record deleted successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query13.py
Connection Established
Student record deleted successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")
4 cursor = connection.cursor()

print("Connection Established")

cursor.execute("DELETE FROM Teacher WHERE TeacherID=3")

connection.commit()
print("Teacher record deleted successfully")

connection.close()

student@student:~/Desktop$ python3 query14.py

Connection Established

Teacher record deleted successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("DELETE FROM Attendance WHERE AttendanceID=2")

connection.commit()
print("Attendance record deleted successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query15.py
Connection Established
Attendance record deleted successfully
```

```
import pymysql

connection = pymysql.connect(host="localhost", port=3306, user="root", passwd="_23StudenT47_",
    database="SchoolManagement")

cursor = connection.cursor()

print("Connection Established")

cursor.execute("DELETE FROM LibraryBook WHERE BookID=3")

connection.commit()
print("Library book record deleted successfully")

connection.close()
```

```
student@student:~/Desktop$ python3 query16.py
Connection Established
Library book record deleted successfully
```