MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Based Mini Project Report

on

Attendance Management System

Submitted By:

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0901CS201091

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Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

This is certified that **Priyanka Likhar** (0901CS201091) has submitted the project report titled **Attendance Management System** under the mentorship of **Ms. Jaimala Jha, Assistant Professor, Computer Science and Engineering**, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Ms.. Jaimala Jha
Faculty Mentor
Assistant Professor
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Ms. Jaimala Jha Assistant Professor, Computer Science and Engineering** I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Priyanka Likhar
0901CS201091
2nd Year,
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering, for allowing** me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Ms. Jaimala Jha**, **,** Assistant Professor, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

Priyanka Likhar
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ABSTRACT

In today's world, accurate data collection is essential for maintaining the integrity of research, regardless of the field of study or preference for defining data (quantitative, qualitative). The use of an appropriate method and device for data acquisition reduces the possibility of errors occurring. The proposed system includes small portable hardware, a remote server, and software components for manual or electronic data acquisition from sensors. It could be used for surveys, closed loop control monitoring systems in industries and hospitals, school and college attendance management systems. Attendance management is critical for every organisation; it can determine whether an organisation, such as educational institutions, public or private sectors, will be successful in the future. In order to make the laborious task of taking and compiling attendance simple and effective, this article proposes a system and framework for doing so in schools and universities. Since educational institutions are its primary target market, they have a need for an automated system that is secure, portable, inexpensive, and user-friendly. In order to replace the current conventional attendance system with an embedded attendance system, this prototype offers an integrated solution. The main benefits are its extremely low cost, compact size, and energy-efficient operation.

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Chapter 1: INTRODUCTION

1.1 Introduction

The "Attendance Management System" is software designed to track a student's daily attendance at the collage. The staff members in charge of the subjects will be responsible for recording the students' attendance. Each member of staff will be assigned a unique username and password based on the subject they handle. This page generates an accurate report based on student attendance. This system will also aid in determining a student's attendance eligibility criteria. On a weekly and monthly basis, a report of the students' trends is generated. The goal of developing an attendance management system is to computerise the traditional method of taking attendance. Another reason for developing this software is to automatically generate the report at the end of the session or in between sessions.

1.2 EXISTING SYSTEM

The current system requires students to enter data manually. Attendance will be recorded in handwritten registers here. Maintaining the record for the user will be a time-consuming task. More human effort is required here. The retrieval of information is more difficult because the records are kept in handwritten registers. This application requires correct input into the appropriate field. If incorrect inputs are entered, the application will refuse to function. as a result, the user finds it difficult to use

Chapter 2: SYSTEM REQUIREMENT

2.1 Hardware Requirement:

- Processor: Minimum 1 GHz; Recommended 2GHz or more.
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi).
- Hard Drive: Minimum 32 GB; Recommended 64 GB or more.
- Memory (RAM): Minimum 1 GB; Recommended 4 GB or above.

2.2 Software Requirement:

- Operating system: Windows or MacOs or Linux.
- Language: SQL Language.
- Database: MYSQL

2.3 Introduction to Development Tools:

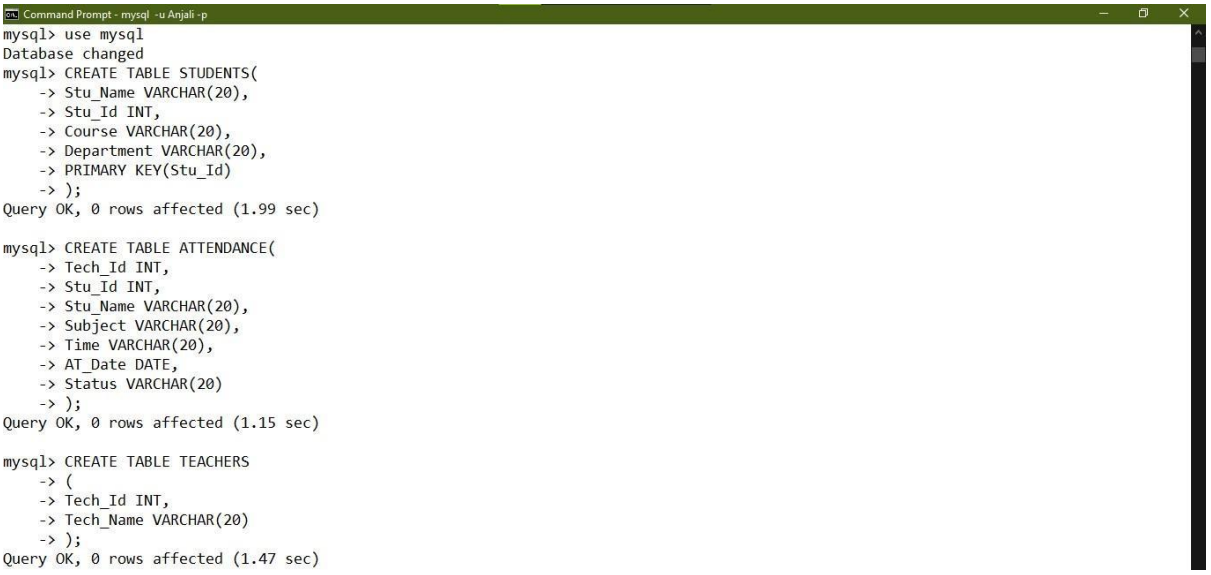
2.3.1 MYSQL

MySQL is an open-source relational database management system (RDBMS) based on Structured Query Language that is supported by Oracle (SQL). MySQL runs on almost every platform, including Linux, UNIX, and Windows. Although it can be used for a variety of purposes, MySQL is most commonly associated with web applications and online publishing. MySQL is a key component of the LAMP open-source enterprise stack. LAMP stands for Linux as an operating system, Apache as a web server, MySQL as a relational database management system, and PHP as an object-oriented scripting language. (Perl or Python are sometimes used instead of PHP.).

Chapter 3: DATABASE

The system uses MySQL as a language for the database, and the migration techniques for selecting a different type of databases for the system such as SQL Server, SQLite, etc.

CREATING TABLES



DISCRIBING ABOUT TABLES

```
Select Command Prompt - mysql -u Anjali -p
mysql> DESCRIBE TEACHERS;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Tech_Id   | int         | YES  |     | NULL    |       |
| Tech_Name | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
2 rows in set (0.44 sec)

mysql> DESCRIBE STUDENTS;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Stu_Name   | varchar(20) | YES  |     | NULL    |       |
| Stu_Id     | int         | NO   | PRI | NULL    |       |
| Course     | varchar(20) | YES  |     | NULL    |       |
| Department | varchar(20) | YES  |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> DESCRIBE ATTENDANCE;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| Tech_Id  | int         | YES  |     | NULL    |       |
| Stu_Id   | int         | YES  |     | NULL    |       |
| Stu_Name | varchar(20) | YES  |     | NULL    |       |
| Subject  | varchar(20) | YES  |     | NULL    |       |
| Time     | varchar(20) | YES  |     | NULL    |       |
| AT_Date  | date        | YES  |     | NULL    |       |
| Status   | varchar(20) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)
```

INSERTING DATA INTO TABLES

```
Command Prompt - mysql -u Anjali -p
mysql> INSERT INTO STUDENTS VALUES('Aarav','20105001','B.Tech','CSE');
Query OK, 1 row affected (0.27 sec)

mysql> INSERT INTO STUDENTS VALUES('Ajay','20105002','B.Tech','CSE');
Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO STUDENTS VALUES('Alka','20105003','B.Tech','CSE');
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO STUDENTS VALUES('Harshita','20105004','B.Tech','CSE');
Query OK, 1 row affected (0.27 sec)

mysql> INSERT INTO STUDENTS VALUES('Muskan','20105005','B.Tech','CSE');
Query OK, 1 row affected (0.22 sec)

mysql> INSERT INTO STUDENTS VALUES('Princika','20105006','B.Tech','CSE');
Query OK, 1 row affected (0.21 sec)

mysql> INSERT INTO STUDENTS VALUES('Priya','20105007','B.Tech','CSE');
Query OK, 1 row affected (0.38 sec)

mysql> INSERT INTO STUDENTS VALUES('Rakhi','20105008','B.Tech','CSE');
Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO STUDENTS VALUES('Rinki','20105009','B.Tech','CSE');
Query OK, 1 row affected (0.18 sec)

mysql> INSERT INTO STUDENTS VALUES('Sonam','20105010','B.Tech','CSE');
Query OK, 1 row affected (0.11 sec)
```

```
Command Prompt - mysql -u Anjali -p

mysql> INSERT INTO TEACHERS VALUES('001','Aman Patel');
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO TEACHERS VALUES('041','Sachin Tiwari');
Query OK, 1 row affected (0.16 sec)

mysql> INSERT INTO TEACHERS VALUES('190','Risabh Gupta');
Query OK, 1 row affected (0.16 sec)

mysql> INSERT INTO TEACHERS VALUES('201','Ghanistha Tawri');
Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO TEACHERS VALUES('024','Ajay Maurya');
Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO TEACHERS VALUES('980','Riya Dixit');
Query OK, 1 row affected (0.07 sec)
```

```
Command Prompt - mysql -u Anjali -p
mysql> INSERT INTO ATTENDANCE VALUES('001', '20105001', 'Aarav', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.14 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105002', 'Ajay', 'CN', '10.00 AM','2022-03-12', 'A');
Query OK, 1 row affected (0.15 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105003', 'Alka', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.15 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001','20105004', 'Harshita', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.13 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105005', 'Muskan', 'CN', '10.00 AM','2022-03-12', 'A');
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105006', 'Princika', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.24 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105007', 'Priya', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.21 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105008', 'Rakhi', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.17 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105009', 'Rinki', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO ATTENDANCE VALUES('001', '20105010', 'Sonam', 'CN', '10.00 AM','2022-03-12', 'P');
Query OK, 1 row affected (0.10 sec)
```

DISPLAYING TABLES

```
Command Prompt - mysql -u Anjali -p

mysql> SELECT*FROM STUDENTS;
+----------+----------+--------+------------+
| Stu_Name | Stu_Id   | Course | Department |
+----------+----------+--------+------------+
| Aarav    | 20105001 | B.Tech | CSE        |
| Ajay     | 20105002 | B.Tech | CSE        |
| Alka     | 20105003 | B.Tech | CSE        |
| Harshita | 20105004 | B.Tech | CSE        |
| Muskan   | 20105005 | B.Tech | CSE        |
| Princika | 20105006 | B.Tech | CSE        |
| Priya    | 20105007 | B.Tech | CSE        |
| Rakhi    | 20105008 | B.Tech | CSE        |
| Rinki    | 20105009 | B.Tech | CSE        |
| Sonam    | 20105010 | B.Tech | CSE        |
+----------+----------+--------+------------+
10 rows in set (0.04 sec)

mysql> SELECT*FROM TEACHERS;
+---------+----------------+
| Tech_Id | Tech_Name      |
+---------+----------------+
|       1 | Aman Patel     |
|      41 | Sachin Tiwari  |
|     190 | Risabh Gupta   |
|     201 | Ghanistha Tawri |
|      24 | Ajay Maurya    |
|     980 | Riya Dixit     |
+---------+----------------+
6 rows in set (0.02 sec)
```

```
Command Prompt - mysql -u Anjali -p

mysql> SELECT*FROM ATTENDANCE;
+---------+----------+----------+---------+----------+------------+--------+
| Tech_Id | Stu_Id   | Stu_Name | Subject | Time     | AT_Date    | Status |
+---------+----------+----------+---------+----------+------------+--------+
|       1 | 20105001 | Aarav    | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105002 | Ajay     | CN      | 10.00 AM | 2022-03-12 | A      |
|       1 | 20105003 | Alka     | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105004 | Harshita | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105005 | Muskan   | CN      | 10.00 AM | 2022-03-12 | A      |
|       1 | 20105006 | Princika | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105007 | Priya    | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105008 | Rakhi    | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105009 | Rinki    | CN      | 10.00 AM | 2022-03-12 | P      |
|       1 | 20105010 | Sonam    | CN      | 10.00 AM | 2022-03-12 | P      |
+---------+----------+----------+---------+----------+------------+--------+
10 rows in set (0.00 sec)
```

UPDATING TABLE

```
Command Prompt - mysql -u Anjali -p
mysql> UPDATE STUDENTS
    -> SET Stu_Name = 'Sagar'
    -> WHERE Stu_Id = '20105010';
Query OK, 1 row affected (0.18 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT Stu_Id,Stu_Name
    -> FROM STUDENTS;
+----------+----------+
| Stu_Id   | Stu_Name |
+----------+----------+
| 20105001 | Aarav    |
| 20105002 | Ajay     |
| 20105003 | Alka     |
| 20105004 | Harshita |
| 20105005 | Muskan   |
| 20105006 | Princika |
| 20105007 | Priya    |
| 20105008 | Rakhi    |
| 20105009 | Rinki    |
| 20105010 | Sagar    |
+----------+----------+
10 rows in set (0.00 sec)
```

DISTINCT

```
mysql> SELECT DISTINCT Stu_Name
    -> FROM STUDENTS;
+----------+
| Stu_Name |
+----------+
| Aarav    |
| Ajay     |
| Alka     |
| Harshita |
| Muskan   |
| Princika |
| Priya    |
| Rakhi    |
| Rinki    |
| Sagar    |
+----------+
10 rows in set (0.00 sec)
```

DELETING RECORD

```
mysql> DELETE FROM STUDENTS
    -> WHERE Stu_Id = '20105010';
Query OK, 1 row affected (0.07 sec)

mysql> SELECT Stu_Id,Stu_Name
    -> FROM STUDENTS;
+----------+----------+
| Stu_Id   | Stu_Name |
+----------+----------+
| 20105001 | Aarav    |
| 20105002 | Ajay     |
| 20105003 | Alka     |
| 20105004 | Harshita |
| 20105005 | Muskan   |
| 20105006 | Princika |
| 20105007 | Priya    |
| 20105008 | Rakhi    |
| 20105009 | Rinki    |
+----------+----------+
9 rows in set (0.00 sec)
```

GRANTING PERMISSION TO STUDENTS TO SEE STUDENT & ATTENDANCE RECORD

```
Database changed
mysql> GRANT SELECT ON STUDENTS TO STUDENTS;
Query OK, 0 rows affected (0.19 sec)

mysql> GRANT SELECT ON ATTENDANCE TO STUDENTS;
Query OK, 0 rows affected (0.14 sec)
```

DISPLAY STUDENTS RECORDS

```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM mysql.STUDENTS;
+----------+----------+--------+------------+
| Stu_Name | Stu_Id   | Course | Department |
+----------+----------+--------+------------+
| Aarav    | 20105001 | B.Tech | CSE        |
| Ajay     | 20105002 | B.Tech | CSE        |
| Alka     | 20105003 | B.Tech | CSE        |
| Harshita | 20105004 | B.Tech | CSE        |
| Muskan   | 20105005 | B.Tech | CSE        |
| Princika | 20105006 | B.Tech | CSE        |
| Priya    | 20105007 | B.Tech | CSE        |
| Rakhi    | 20105008 | B.Tech | CSE        |
| Rinki    | 20105009 | B.Tech | CSE        |
+----------+----------+--------+------------+
9 rows in set (0.02 sec)
```

ALTER ADD & RENAME

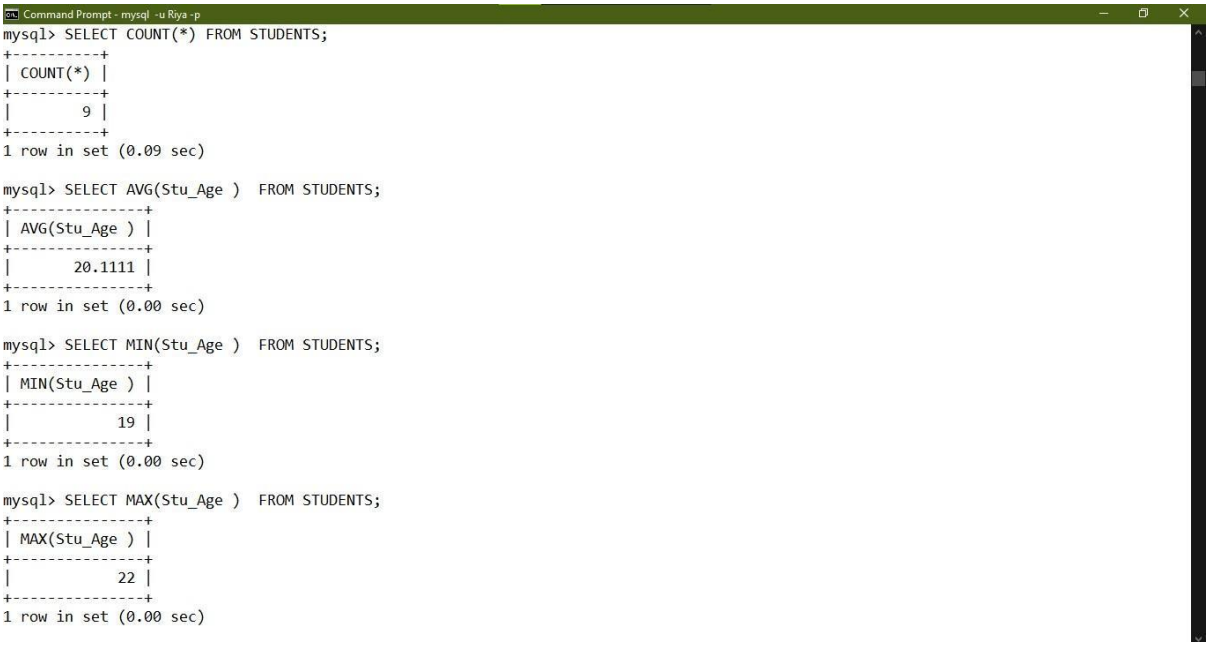
```
mysql> ALTER TABLE STUDENTS
    -> ADD Age INT;
Query OK, 0 rows affected (1.68 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE STUDENTS
    -> RENAME COLUMN Age TO Stu_Age;
Query OK, 0 rows affected (0.61 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

UPDATE OR ADD DATA TO NEW ADDED COLUMN

```
Command Prompt - mysql -u Riya -p
mysql> UPDATE STUDENTS SET Stu_Age ='20' WHERE Stu_Id='20105001';
Query OK, 1 row affected (0.12 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='22' WHERE Stu_Id='20105002';
Query OK, 1 row affected (0.15 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='19' WHERE Stu_Id='20105003';
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='20' WHERE Stu_Id='20105004';
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='20' WHERE Stu_Id='20105005';
Query OK, 1 row affected (0.27 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='21' WHERE Stu_Id='20105006';
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='20' WHERE Stu_Id='20105007';
Query OK, 1 row affected (0.11 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE STUDENTS SET Stu_Age ='19' WHERE Stu_Id='20105008';
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

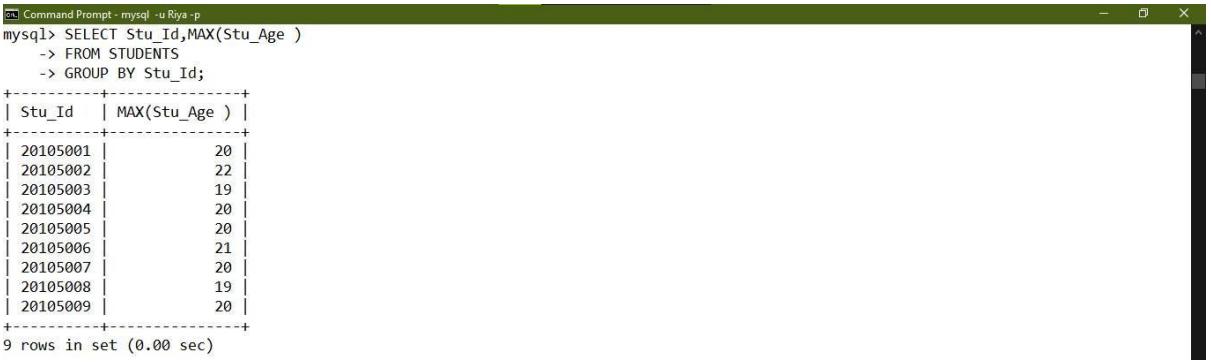
```
mysql> UPDATE STUDENTS SET Stu_Age ='20' WHERE Stu_Id='20105009';
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

AGGREGATE



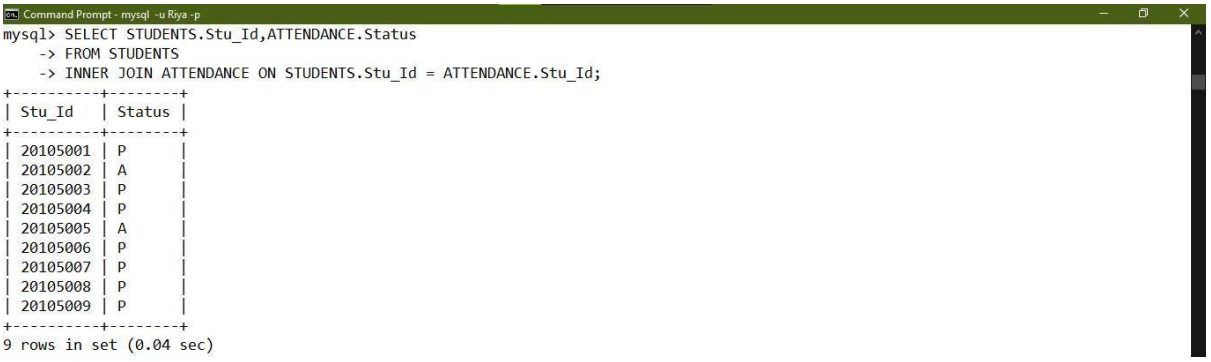
```
Command Prompt - mysql -u Riya -p
mysql> SELECT COUNT(*) FROM STUDENTS;
+----------+
| COUNT(*) |
+----------+
|        9 |
+----------+
1 row in set (0.09 sec)

mysql> SELECT AVG(Stu_Age )  FROM STUDENTS;
+---------------+
| AVG(Stu_Age ) |
+---------------+
|       20.1111 |
+---------------+
1 row in set (0.00 sec)

mysql> SELECT MIN(Stu_Age )  FROM STUDENTS;
+---------------+
| MIN(Stu_Age ) |
+---------------+
|            19 |
+---------------+
1 row in set (0.00 sec)

mysql> SELECT MAX(Stu_Age )  FROM STUDENTS;
+---------------+
| MAX(Stu_Age ) |
+---------------+
|            22 |
+---------------+
1 row in set (0.00 sec)
```

GROUP BY



```
Command Prompt - mysql -u Riya -p
mysql> SELECT Stu_Id,MAX(Stu_Age )
    -> FROM STUDENTS
    -> GROUP BY Stu_Id;
+----------+---------------+
| Stu_Id   | MAX(Stu_Age ) |
+----------+---------------+
| 20105001 |            20 |
| 20105002 |            22 |
| 20105003 |            19 |
| 20105004 |            20 |
| 20105005 |            20 |
| 20105006 |            21 |
| 20105007 |            20 |
| 20105008 |            19 |
| 20105009 |            20 |
+----------+---------------+
9 rows in set (0.00 sec)
```

JOIN



```
Command Prompt - mysql -u Riya -p
mysql> SELECT STUDENTS.Stu_Id,ATTENDANCE.Status
    -> FROM STUDENTS
    -> INNER JOIN ATTENDANCE ON STUDENTS.Stu_Id = ATTENDANCE.Stu_Id;
+----------+--------+
| Stu_Id   | Status |
+----------+--------+
| 20105001 | P      |
| 20105002 | A      |
| 20105003 | P      |
| 20105004 | P      |
| 20105005 | A      |
| 20105006 | P      |
| 20105007 | P      |
| 20105008 | P      |
| 20105009 | P      |
+----------+--------+
9 rows in set (0.04 sec)
```

ORDER BY

```
Command Prompt - mysql -u Riya -p
mysql> SELECT STUDENTS.Stu_Id,ATTENDANCE.Status
    -> FROM STUDENTS
    -> INNER JOIN ATTENDANCE ON STUDENTS.Stu_Id = ATTENDANCE.Stu_Id;
+----------+--------+
| Stu_Id   | Status |
+----------+--------+
| 20105001 | P      |
| 20105002 | A      |
| 20105003 | P      |
| 20105004 | P      |
| 20105005 | A      |
| 20105006 | P      |
| 20105007 | P      |
| 20105008 | P      |
| 20105009 | P      |
+----------+--------+
9 rows in set (0.04 sec)
```

```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM STUDENTS
    -> ORDER BY Stu_Id ASC;
+----------+----------+--------+------------+---------+
| Stu_Name | Stu_Id   | Course | Department | Stu_Age |
+----------+----------+--------+------------+---------+
| Aarav    | 20105001 | B.Tech | CSE        |      20 |
| Ajay     | 20105002 | B.Tech | CSE        |      22 |
| Alka     | 20105003 | B.Tech | CSE        |      19 |
| Harshita | 20105004 | B.Tech | CSE        |      20 |
| Muskan   | 20105005 | B.Tech | CSE        |      20 |
| Princika | 20105006 | B.Tech | CSE        |      21 |
| Priya    | 20105007 | B.Tech | CSE        |      20 |
| Rakhi    | 20105008 | B.Tech | CSE        |      19 |
| Rinki    | 20105009 | B.Tech | CSE        |      20 |
+----------+----------+--------+------------+---------+
9 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u Riya -p
mysql> SELECT Stu_Age, Stu_Name
    -> FROM STUDENTS
    -> ORDER BY Stu_Name DESC;
+---------+----------+
| Stu_Age | Stu_Name |
+---------+----------+
|      20 | Rinki    |
|      19 | Rakhi    |
|      20 | Priya    |
|      21 | Princika |
|      20 | Muskan   |
|      20 | Harshita |
|      19 | Alka     |
|      22 | Ajay     |
|      20 | Aarav    |
+---------+----------+
9 rows in set (0.04 sec)
```

WHERE

```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM ATTENDANCE
    -> WHERE Status = 'A';
+---------+----------+----------+---------+----------+------------+--------+
| Tech_Id | Stu_Id   | Stu_Name | Subject | Time     | AT_Date    | Status |
+---------+----------+----------+---------+----------+------------+--------+
|       1 | 20105002 | Ajay     | CN      | 10.00 AM | 2022-03-12 | A      |
|       1 | 20105005 | Muskan   | CN      | 10.00 AM | 2022-03-12 | A      |
+---------+----------+----------+---------+----------+------------+--------+
2 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u Riya -p
mysql> SELECT Stu_Id, Stu_Name
    -> FROM STUDENTS
    -> WHERE Stu_Age ='20';
+----------+----------+
| Stu_Id   | Stu_Name |
+----------+----------+
| 20105001 | Aarav    |
| 20105004 | Harshita |
| 20105005 | Muskan   |
| 20105007 | Priya    |
| 20105009 | Rinki    |
+----------+----------+
5 rows in set (0.00 sec)
```

AND

```
Command Prompt - mysql -u Riya -p
mysql> SELECT Stu_Id, Stu_Name,Stu_Age
    -> FROM STUDENTS
    -> WHERE Stu_Age >'19' AND Stu_Age<'22';
+----------+----------+---------+
| Stu_Id   | Stu_Name | Stu_Age |
+----------+----------+---------+
| 20105001 | Aarav    |      20 |
| 20105004 | Harshita |      20 |
| 20105005 | Muskan   |      20 |
| 20105006 | Princika |      21 |
| 20105007 | Priya    |      20 |
| 20105009 | Rinki    |      20 |
+----------+----------+---------+
6 rows in set (0.00 sec)
```

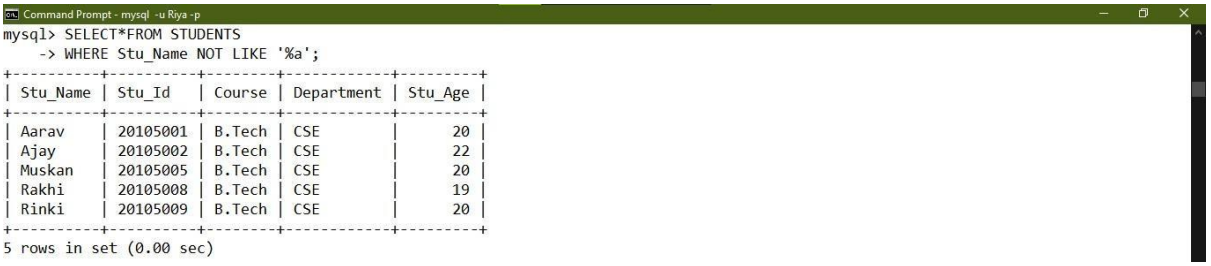
OR

```
Command Prompt - mysql -u Riya -p
mysql> SELECT Stu_Id, Stu_Name,Stu_Age
    -> FROM STUDENTS
    -> WHERE Stu_Age ='22' OR Stu_Age<'20';
+----------+----------+---------+
| Stu_Id   | Stu_Name | Stu_Age |
+----------+----------+---------+
| 20105002 | Ajay     |      22 |
| 20105003 | Alka     |      19 |
| 20105008 | Rakhi    |      19 |
+----------+----------+---------+
3 rows in set (0.00 sec)
```

LIKE

```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM STUDENTS
    -> WHERE Stu_Name LIKE '%a';
+----------+----------+--------+------------+---------+
| Stu_Name | Stu_Id   | Course | Department | Stu_Age |
+----------+----------+--------+------------+---------+
| Alka     | 20105003 | B.Tech | CSE        |      19 |
| Harshita | 20105004 | B.Tech | CSE        |      20 |
| Princika | 20105006 | B.Tech | CSE        |      21 |
| Priya    | 20105007 | B.Tech | CSE        |      20 |
+----------+----------+--------+------------+---------+
4 rows in set (0.05 sec)
```

NOT

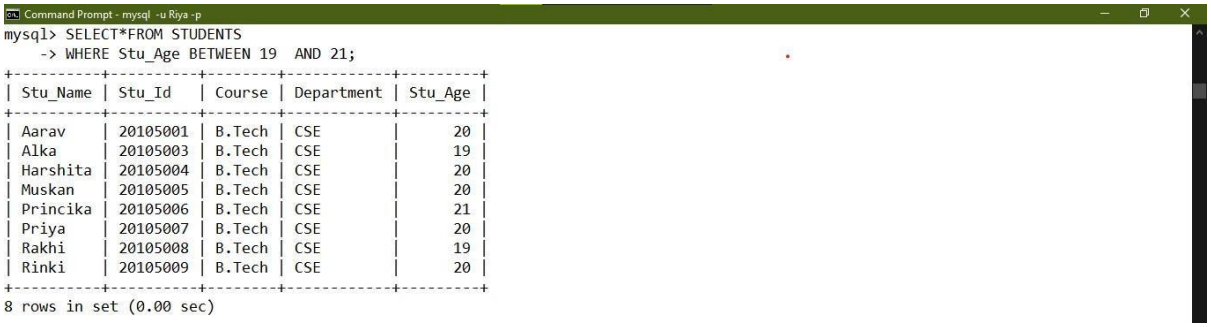


```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM STUDENTS
    -> WHERE Stu_Name NOT LIKE '%a';
+----------+----------+--------+------------+---------+
| Stu_Name | Stu_Id   | Course | Department | Stu_Age |
+----------+----------+--------+------------+---------+
| Aarav    | 20105001 | B.Tech | CSE        |      20 |
| Ajay     | 20105002 | B.Tech | CSE        |      22 |
| Muskan   | 20105005 | B.Tech | CSE        |      20 |
| Rakhi    | 20105008 | B.Tech | CSE        |      19 |
| Rinki    | 20105009 | B.Tech | CSE        |      20 |
+----------+----------+--------+------------+---------+
5 rows in set (0.00 sec)
```

IN

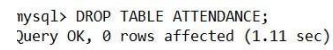
```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM STUDENTS
    -> WHERE Stu_Age IN('21','22');
+----------+----------+--------+------------+---------+
| Stu_Name | Stu_Id   | Course | Department | Stu_Age |
+----------+----------+--------+------------+---------+
| Ajay     | 20105002 | B.Tech | CSE        |      22 |
| Princika | 20105006 | B.Tech | CSE        |      21 |
+----------+----------+--------+------------+---------+
2 rows in set (0.00 sec)
```

BETWEEN



```
Command Prompt - mysql -u Riya -p
mysql> SELECT*FROM STUDENTS
    -> WHERE Stu_Age BETWEEN 19  AND 21;
+----------+----------+--------+------------+---------+
| Stu_Name | Stu_Id   | Course | Department | Stu_Age |
+----------+----------+--------+------------+---------+
| Aarav    | 20105001 | B.Tech | CSE        |      20 |
| Alka     | 20105003 | B.Tech | CSE        |      19 |
| Harshita | 20105004 | B.Tech | CSE        |      20 |
| Muskan   | 20105005 | B.Tech | CSE        |      20 |
| Princika | 20105006 | B.Tech | CSE        |      21 |
| Priya    | 20105007 | B.Tech | CSE        |      20 |
| Rakhi    | 20105008 | B.Tech | CSE        |      19 |
| Rinki    | 20105009 | B.Tech | CSE        |      20 |
+----------+----------+--------+------------+---------+
8 rows in set (0.00 sec)
```

DROP TABLE



```
mysql> DROP TABLE ATTENDANCE;
Query OK, 0 rows affected (1.11 sec)
```

TRUNCATE TABLE

```
mysql> TRUNCATE TABLE STUDENTS;
Query OK, 0 rows affected (1.93 sec)
```

Chapter 4: RESULT & CONCLUSION

Our project decreases the probability of proxy while also keeping track of student attendance in an efficient manner. The general project is in charge of student attendance. The attendance is calculated based on the in and out times recorded by the cameras. The time table has now been transferred to the database, and the attendance is recorded in the time table based on the in and out times. Toward the end of the month, a comprehensive attendance report is made available to students and faculty. This project reduces the workload on faculty members. Additional benefits include increased dependability and an environmentally friendly methodology that reduces paperwork. The notice for attendance at the time of effectively capturing a picture and detecting a face in its sensor is a future work that can be incorporated.