

KoneruLakshmaiah Education Foundation

(Deemed to be University)

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

A Project Based Lab Report

On

ATTENDANCE MANAGEMENT SYSTEM

SUBMITTED BY:

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ATTENDANCE MANAGEMENT SYSTEM

ABSTRACT

Student attendance management system deal with the maintenance of the student's attendance details. It is generates the attendance of the student on basis of presence in class. It is maintaining daily basis of attendance, the staff will be provide with the separate username and password to make student attendance. The staff handling the particular subject to responsible to make the attendance for all students. Only if the student presents the particular date, the attendance will be calculated. The student attendance report based on monthly and consolidate will be generated.

Creating Tables

1. CREATE TABLE Logintb (

2 Username varchar(20) not null,

3 Password varchar(20) not null

4);

2. CREATE TABLE Stafftb (

2 Scode varchar(20) primary key,

3 Sname varchar(20) not null,

4 Subject varchar(20) not null,

5 Password varchar(20) not null

6);

3. CREATE TABLE Studentb (

2 Rollno number(10) primary key,

3 Name varchar(20) not null,

4 Dept varchar(30) not null,

5 Year number(10) not null

6);

4. CREATE TABLE Timetb (

2 Day varchar(20) primary key,

3 Subject varchar(20) not null,
4 Periods number(10) not null
5);

5. CREATE TABLE Attendancetb (

2 Dates Date primary key,
3 Hour number(10) not null,
4 Subject varchar(20) not null,
5 Rollno number(10) not null
6);

```
Run SQL Command Line
Copyright (c) 1982, 2005, Oracle. All rights reserved.

SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> CREATE TABLE Logintb (
  2 Username varchar(20),
  3 Password varchar(20)
  4 );

Table created.

SQL> CREATE TABLE Stafftb (
  2 Scode varchar(20) primary key,
  3 Sname varchar(20),
  4 Subject varchar(20),
  5 Password varchar(20)
  6 );

Table created.

SQL> CREATE TABLE Studentb (
  2 Rollno number(10) primary key,
  3 Name varchar(20) not null,
  4 Dept varchar(30) not null,
  5 Year number(10) not null
  6 );

Table created.

SQL> CREATE TABLE Timetb (
  2 Day varchar(20) primary key,
  3 Subject varchar(20) not null,
  4 Periods number(10) not null
  5 );

Table created.

SQL> CREATE TABLE Attendancetb (
  2 Dates Date primary key,
  3 Hour number(10) not null,
  4 Subject varchar(20) not null,
  5 Rollno number(10) not null
  6 );

Table created.

SQL>
```

Inserting Values

1. INSERT INTO Logintb (Username,Password)

2 VALUES ('Madhuri','Madhu');

INSERT INTO Logintb (Username,Password)

2 VALUES ('Monika','monika');

INSERT INTO Logintb (Username,Password)

2 VALUES ('Geethika','Geethu');

INSERT INTO Logintb (Username,Password)

2 VALUES ('Mahesh','Mahi');

INSERT INTO Logintb (Username,Password)

2 VALUES ('Rishika','Rishi');

2. INSERT INTO Stafftb (Scode,Sname,Subject,Password)

2 VALUES ('DBMS12','Bharathi','DBMS','Bharathi');

INSERT INTO Stafftb (Scode,Sname,Subject,Password)

2 VALUES ('DBMS11','Siva','DBMS','Siva');

INSERT INTO Stafftb (Scode,Sname,Subject,Password)

2 VALUES ('EP11','Mahi','EP','Mahi');

INSERT INTO Stafftb (Scode,Sname,Subject,Password)

2 VALUES ('EP12','Madhu','EP','Madhu');

INSERT INTO Stafftb (Scode,Sname,Subject,Password)

2 VALUES ('CNS12','Monika','CNS','Monika');

3. INSERT INTO Studentb (Rollno,Name,Dept,Year)

2 VALUES (180030290,'Madhuri','CSE',2018);

INSERT INTO Studentb (Rollno,Name,Dept,Year)

2 VALUES (180030875,'Monika','CSE',2018);

INSERT INTO Studentb (Rollno,Name,Dept,Year)

2 VALUES (170031266,'Mahesh','CSE',2017);

INSERT INTO Studentb (Rollno,Name,Dept,Year)

2 VALUES (170031269,'Mahi','CSE',2017);

INSERT INTO Studentb (Rollno,Name,Dept,Year)

2 VALUES (180030291,'Geethu','CSE',2018);

4. INSERT INTO Timetb (Day,Subject,Periods)

2 VALUES ('Monday','DBMS',6);

INSERT INTO Timetb (Day,Subject,Periods)

2 VALUES ('Tuesday','DBMS',8);

INSERT INTO Timetb (Day,Subject,Periods)

2 VALUES ('Wednesday','DBMS',2);

INSERT INTO Timetb (Day,Subject,Periods)

2 VALUES ('Thursday','EP',2);

INSERT INTO Timetb (Day,Subject,Periods)

2 VALUES ('Saturday','PT',2);

5. INSERT INTO Attendancetb (Dates,Hour,Subject,Rollno)

2 VALUES ('28-APR-2020',5,'DBMS',180030290);

INSERT INTO Attendancetb (Dates,Hour,Subject,Rollno)

2 VALUES ('27-APR-2020',5,'DBMS',180030875);

INSERT INTO Attendancetb (Dates,Hour,Subject,Rollno)

2 VALUES ('26-APR-2020',8,'EP',180030875);

INSERT INTO Attendancetb (Dates,Hour,Subject,Rollno)

2 VALUES ('25-APR-2020',8,'EP',180030290);

INSERT INTO Attendancetb (Dates,Hour,Subject,Rollno)

2 VALUES ('25-JUN-2020',2,'EP',180030290);

@ Run SQL Command Line

```
SQL> INSERT INTO Logintb (Username,Password)
  2 VALUES ('Madhuri','Madhu');

1 row created.

SQL> INSERT INTO Logintb (Username,Password)
  2 VALUES ('Monika','monika');

1 row created.

SQL> INSERT INTO Logintb (Username,Password)
  2 VALUES ('Geethika','Geethu');

1 row created.

SQL> INSERT INTO Logintb (Username,Password)
  2 VALUES ('Mahesh','Mahi');

1 row created.

SQL> INSERT INTO Logintb (Username,Password)
  2 VALUES ('Rishika','Rishi');

1 row created.

SQL> INSERT INTO Stafftb (Scode,Sname,Subject,Password)
  2 VALUES ('DBMS12','Bharathi','DBMS','Bharathi');

1 row created.

SQL> INSERT INTO Stafftb (Scode,Sname,Subject,Password)
  2 VALUES ('DBMS12','Siva','DBMS','Siva');
INSERT INTO Stafftb (Scode,Sname,Subject,Password)
*
ERROR at line 1:
ORA-00001: unique constraint (SYSTEM.SYS_C004111) violated

SQL> INSERT INTO Stafftb (Scode,Sname,Subject,Password)
  2 VALUES ('DBMS11','Siva','DBMS','Siva');

1 row created.

SQL> INSERT INTO Stafftb (Scode,Sname,Subject,Password)
  2 VALUES ('EP11','Mahi','EP','Mahi');

1 row created.

SQL> INSERT INTO Stafftb (Scode,Sname,Subject,Password)
```

```

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Monday','DBMS',6);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Tuesday','DBMS',8);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Wednesday','DBMS',2);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Thursday','EP',2);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Saturday','PT',2);

1 row created.

```

Run SQL Command Line

```

SQL> INSERT INTO Studentb (Rollno,Name,Dept,Year)
VALUES (180030290,'Madhuri','CSE',2018);

1 row created.

SQL> INSERT INTO Studentb (Rollno,Name,Dept,Year)
VALUES (180030875,'Monika','CSE',2018);

1 row created.

SQL> INSERT INTO Studentb (Rollno,Name,Dept,Year)
VALUES (170031266,'Mahesh','CSE',2017);

1 row created.

SQL> INSERT INTO Studentb (Rollno,Name,Dept,Year)
VALUES (170031269,'Mahi','CSE',2017);

1 row created.

SQL> INSERT INTO Studentb (Rollno,Name,Dept,Year)
VALUES (180030291,'Geethu','CSE',2018);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Monday','DBMS',6);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Tuesday','DBMS',8);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Wednesday','DBMS',2);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Thursday','EP',2);

1 row created.

SQL> INSERT INTO Timetb (Day,Subject,Periods)
VALUES ('Saturday','PT',2);

1 row created.

```

Description Of Tables

Run SQL Command Line

SQL> desc Logintb;

Name	Null?	Type
USERNAME		VARCHAR2(20)
PASSWORD		VARCHAR2(20)

SQL> desc Stafftb;

Name	Null?	Type
SCODE	NOT NULL	VARCHAR2(20)
SNAME		VARCHAR2(20)
SUBJECT		VARCHAR2(20)
PASSWORD		VARCHAR2(20)

SQL> desc Studentb;

Name	Null?	Type
ROLLNO	NOT NULL	NUMBER(10)
NAME	NOT NULL	VARCHAR2(20)
DEPT	NOT NULL	VARCHAR2(30)
YEAR	NOT NULL	NUMBER(10)

SQL> desc Timetb;

Name	Null?	Type
DAY	NOT NULL	VARCHAR2(20)
SUBJECT	NOT NULL	VARCHAR2(20)
PERIODS	NOT NULL	NUMBER(10)

SQL> desc Attendancetb;

Name	Null?	Type
DATES	NOT NULL	DATE
HOUR	NOT NULL	NUMBER(10)
SUBJECT	NOT NULL	VARCHAR2(20)
ROLLNO	NOT NULL	NUMBER(10)

SQL>

SQL Queries related to Report Generation

1. SELECT * FROM Logintb;
2. SELECT * FROM Stafftb;
3. SELECT * FROM Studentb;
4. SELECT * FROM Timetb;
5. SELECT * FROM Attendancetb;
6. SELECT DISTINCT Subject FROM Stafftb;
7. SELECT COUNT(DISTINCT Subject) FROM Stafftb;
8. SELECT DISTINCT Rollno FROM Attendancetb;
9. SELECT COUNT(DISTINCT Rollno) FROM Attendancetb;
10. SELECT * FROM Stafftb WHERE Subject='DBMS';
11. SELECT * FROM Attendancetb WHERE Rollno=180030290;
12. SELECT * FROM Studentb WHERE Dept='CSE' AND Year=2018;
13. SELECT * FROM Attendancetb ORDER BY Hour;
 □ UPDATE Logintb
 2 SET Password='Monika'
 3 WHERE Username='Monika';
14. SELECT SUM(Hour) FROM Attendancetb;
15. SELECT AVG(Hour) FROM Attendancetb;
16. SELECT SUM(Periods) FROM Timetb;
17. SELECT MIN(Periods) FROM Timetb;
18. SELECT MAX(Hour) FROM Attendancetb;
19. SELECT Studentb.Name,Attendancetb.Dates
 2 FROM Studentb
 3 INNER JOIN Attendancetb ON
 Studentb.Rollno=Attendancetb.Rollno;
20. SELECT MAX(Hour) FROM Attendancetb WHERE
 Rollno=180030875;
21. SELECT * FROM Logintb WHERE Username LIKE 'M%';
22. SELECT Studentb.Name,Attendancetb.Dates

```

2 FROM Studentb
3 LEFT JOIN Attendancetb ON Studentb.Rollno=Attendancetb.Rollno
4 ORDER BY Studentb.Name;

```

23. SELECT Studentb.Name,Attendancetb.Dates

```

2 FROM Studentb
3 FULL OUTER JOIN Attendancetb ON
Studentb.Rollno=Attendancetb.Rollno
4 ORDER BY Studentb.Name;

```

Outputs:

```

Run SQL Command Line

1 row created.

SQL> SELECT * FROM Logintb;

-----
USERNAME      PASSWORD
-----
Madhuri      Madhu
Monika        monika
Geethika      Geethu
Mahesh        Mahi
Rishika       Rishi

SQL> SELECT * FROM Stafftb;

SCODE      SNAME      SUBJECT
-----
PASSWORD
-----
DBMS12     Bharathi   DBMS
Bharathi

DBMS11     Siva       DBMS
Siva

EP11       Mahi       EP
Mahi

SCODE      SNAME      SUBJECT
-----
PASSWORD
-----
EP12       Madhu      EP
Madhu

CNS12      Monika     CNS
Monika

SQL> SELECT * FROM Studentb;

ROLLNO  NAME      DEPT      YEAR
-----
180030290 Madhuri  CSE       2018
180030875 Monika    CSE       2018
170031266 Mahesh    CSE       2017
170031269 Mahi      CSE       2017
180030291 Geethu    CSE       2018

```

```
Run SQL Command Line

SQL> SELECT * FROM Timetb;

DAY                SUBJECT                PERIODS
-----
Monday             DBMS                      6
Tuesday            DBMS                      8
Wednesday           DBMS                      2
Thursday            EP                        2
Saturday            PT                        2

SQL> SELECT * FROM Attendancetb;

DATES              HOUR SUBJECT                ROLLNO
-----
28-APR-20         5 DBMS                      180030290
27-APR-20         5 DBMS                      180030875
26-APR-20         8 EP                       180030875
25-APR-20         8 EP                       180030290
25-JUN-20         2 EP                       180030290

SQL> SELECT DISTINCT Subject FROM Stafftb;

SUBJECT
-----
EP
CNS
DBMS

SQL> SELECT COUNT(DISTINCT Subject) FROM Stafftb;

COUNT(DISTINCTSUBJECT)
-----
3

SQL> SELECT DISTINCT Rollno FROM Attendancetb;

ROLLNO
-----
180030875
180030290

SQL> SELECT COUNT(DISTINCT Rollno) FROM Attendancetb;

COUNT(DISTINCTROLLNO)
-----
2

SQL> SELECT * FROM Stafftb WHERE Subject='DBMS';
```

```
Run SQL Command Line

SQL> SELECT * FROM Stafftb WHERE Subject='DBMS';

SCODE              SNAME                SUBJECT
-----
DBMS12             Bharathi              DBMS
Bharathi
DBMS11             Siva                  DBMS
Siva

SQL> SELECT * FROM Attendancetb WHERE Rollno=180030290;

DATES              HOUR SUBJECT                ROLLNO
-----
28-APR-20         5 DBMS                      180030290
25-APR-20         8 EP                       180030290
25-JUN-20         2 EP                       180030290

SQL> SELECT * FROM Studentb WHERE Dept='CSE' AND Year=2018;

ROLLNO NAME                DEPT                YEAR
-----
180030290 Madhuri              CSE                  2018
180030875 Monika              CSE                  2018
180030291 Geethu                CSE                  2018

SQL> SELECT * FROM Attendancetb ORDER BY Hour;

DATES              HOUR SUBJECT                ROLLNO
-----
25-JUN-20         2 EP                       180030290
28-APR-20         5 DBMS                      180030290
27-APR-20         5 DBMS                      180030875
25-APR-20         8 EP                       180030290
26-APR-20         8 EP                       180030875

SQL> UPDATE Logintb
2 SET Password='Monika'
3 WHERE Username='Monika';

1 row updated.

SQL> select * from Logintb;

USERNAME                PASSWORD
-----

```

```
Run SQL Command Line

SQL> select * from Logintb;

USERNAME          PASSWORD
-----
Madhuri          Madhu
Monika            Monika
Geethika          Geethu
Mahesh            Mahi
Rishika           Rishi

SQL> SELECT SUM(Hour) FROM Attendancetb;

SUM(HOUR)
-----
28

SQL> SELECT AVG(Hour) FROM Attendancetb;

AVG(HOUR)
-----
5.6

SQL> SELECT SUM(Periods) FROM Timetb;

SUM(PERIODS)
-----
20

SQL> SELECT MIN(Periods) FROM Timetb;

MIN(PERIODS)
-----
2

SQL> SELECT MAX(Hour) FROM Attendancetb;

MAX(HOUR)
-----
8

SQL> SELECT Studenttb.Name,Attendancetb.Dates
2 ;
*
ERROR at line 2:
ORA-00923: FROM keyword not found where expected

SQL> SELECT Studenttb.Name,Attendancetb.Dates
```

```
Run SQL Command Line

MIN(PERIODS)
-----
2

SQL> SELECT MAX(Hour) FROM Attendancetb;

MAX(HOUR)
-----
8

SQL> SELECT Studenttb.Name,Attendancetb.Dates
2 ;
*
ERROR at line 2:
ORA-00923: FROM keyword not found where expected

SQL> SELECT Studenttb.Name,Attendancetb.Dates
2 FROM Studenttb
3 INNER JOIN Attendancetb ON Studenttb.Rollno=Attendancetb.Rollno;

NAME          DATES
-----
Madhuri      28-APR-20
Monika        27-APR-20
Monika        26-APR-20
Madhuri      25-APR-20
Madhuri      25-JUN-20

SQL> SELECT MAX(Hour) FROM Attendancetb WHERE Rollno=180030875;

MAX(HOUR)
-----
8

SQL> SELECT * FROM Logintb WHERE Username LIKE 'm%';

no rows selected

SQL> SELECT * FROM Logintb WHERE Username LIKE 'M%';

USERNAME          PASSWORD
-----
Madhuri          Madhu
Monika            Monika
Mahesh            Mahi

SQL> SELECT Studenttb.Name,Attendancetb.Dates
2 FROM Studenttb
3 LEFT JOIN Attendancetb ON Studenttb.Rollno=Attendancetb.Rollno
4 ORDER BY Studenttb.Name;
```

Run SQL Command Line

USERNAME	PASSWORD
Madhuri	Madhu
Monika	Monika
Maresh	Mahi

```
SQL> SELECT Studentb.Name,Attendancetb.Dates
2 FROM Studentb
3 LEFT JOIN Attendancetb ON Studentb.Rollno=Attendancetb.Rollno
4 ORDER BY Studentb.Name;
```

NAME	DATES
Geethu	
Madhuri	28-APR-20
Madhuri	25-APR-20
Madhuri	25-JUN-20
Maresh	
Mahi	
Monika	27-APR-20
Monika	26-APR-20

8 rows selected.

```
SQL> SELECT Studentb.Name,Attendancetb.Dates
2 FROM Studentb
3 FULL OUTER JOIN Attendancetb ON Studentb.Rollno=Attendancetb.Rollno
4 ORDER BY Studentb.Name;
```

```
FULL OUTER JOIN Attendancetb ON Studentb.Rollno=Attendancetb.Rollno
*
```

ERROR at line 3:
ORA-00942: table or view does not exist

```
SQL> SELECT Studentb.Name,Attendancetb.Dates
2 FROM Studentb
3 FULL OUTER JOIN Attendancetb ON Studentb.Rollno=Attendancetb.Rollno
4 ORDER BY Studentb.Name;
```

NAME	DATES
Geethu	
Madhuri	28-APR-20
Madhuri	25-APR-20
Madhuri	25-JUN-20
Maresh	
Mahi	
Monika	27-APR-20
Monika	26-APR-20

8 rows selected.

