TITLE

UNIVERSITY MANAGEMENT SYSTEM

ABSTRACT

UMS is University Management System, it is process of handling number of colleges and 'n' number of students maintain and managing with the respective colleges. Which is used to perform some (CRUD) Create, Read, Update, Delete Operations. This University Management System contains three tables namely University, College, and Student tables. This project is used to store some respective data and implement university board system. A UMS is an education ERP product that helps teachers, students, parents, external vendors, learning suppliers etc. come together via a platform and exchange information. University Database Management Project Focuses on managing the data associated with the Academic and Research department of the University. Overall, when compared to the manual process, an effective University Management System makes managing university operations easier and more reliable. The university management system aids in the creation of a platform for all stakeholders including Admin, faculty, and students to collaborate.

OBJECTIVES

- To Implement Database for University Management System.
- Store Data to Database with respective tables and perform some CRUD operations.
- This project Implementing University Board System.

DATA FLOW DIAGRAM

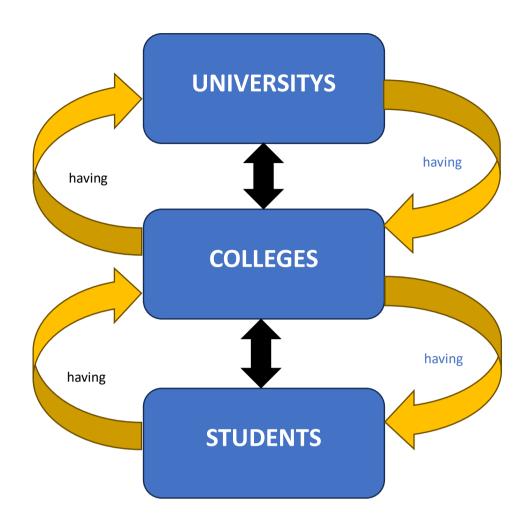


Fig. UMS data flow diagram

TABLES

University Table Entity

<u>U CODE</u>	U_NAME	U_PHNO	U_EMAIL

College Table Entity

<u>C_CODE</u>	C_NAME	C_PHNO	C_EMAIL	<u>U_CODE</u>

Student Table Entity

<u>S USN</u>	S_NAME	S_PHNO	S_EMAIL	S_COURSE	S_GENDER	C CODE

SNAPSHOTS

Step1: Check how many tables are exist in database.

```
SQL> SELECT *
 2 FROM TAB:
                               TABTYPE CLUSTERID
TNAME
DEPT
                               TABLE
EMP
                               TABLE
BONUS
                               TABLE
SALGRADE
                               TABLE
EMPLOYEE
                               TABLE
PRODUCT
                               TABLE
BIN$7HTqm3UKTF6Ewvw2THG0FA==$0 TABLE
BIN$qoIyksGdTpSbXZbFKDMFIg==$0 TABLE
BINSYUX1ZecZTTCDfVZvPNRTo0==$0 TABLE
BIN$L3/ADMSIQC6T7URL84cH0g==$0 TABLE
10 rows selected.
```

TABLE CREATION

Step2: Create UMS Database and Tables.

1) University Table

```
SOL>
SOL> CREATE TABLE UNIVERSITY(U CODE NUMBER PRIMARY KEY, U NAME VARCHAR(75), U PHNO NUMBER, U EMAIL V
ARCHAR2(50));
Table created.
SQL> DESCRIBE UNIVERSITY;
                                          Nu11?
Name
                                                    Type
 U CODE
                                           NOT NULL NUMBER
 U_NAME
                                                    VARCHAR2(75)
 U_bHN0
                                                    NUMBER
 U_EMAIL
                                                    VARCHAR2(50)
SQL>
SQL>
```

2) College Table

SQL>
SQL>
SQL> CREATE TABLE COLLEGE(C_CODE NUMBER PRIMARY KEY, C_NAME VARCHAR(70), C_PHNO NUMBER, C_EMAIL VARCHAR(40), U_CODE NUMBER, FOREIGN KEY(U_CODE) REFERENCES UNIVERSITY(U_CODE));

NUMBER

Table created.

SQL> DESCRIBE COLLEGE;			
Name	Nul	1?	Туре
C_CODE	HOT	NULL	NUMBER
C_NAME			VARCHAR2(70)
C_PHN0			NUMBER
C EMAIL			UARCHAR2(40)

SQL>

U_CODE

3) Student Table

SQL>
SQL>
SQL>
SQL> CREATE TABLE STUDENT(S_USN VARCHAR2(11) PRIMARY KEY, S_NAME VARCHAR(50), S_PHNO NUMBER, S_EMAIL
VARCHAR2(40), S_COURSE VARCHAR(50), S_GENDER VARCHAR(10), C_CODE NUMBER, FOREIGN KEY(C_CODE) REFERE
NCES COLLEGE(C_CODE));

Table created.

C 10.2	DESCRIBE	CTHDENT -
3UL/	DESCRIBE	SIUVENI.

Name	Nu1	1?	Туре
S USN	HOT	NULL	VARCHAR2(11)
S_NAME			VARCHAR2(50)
S_PHN0			NUMBER
S_EMAIL S COURSE			VARCHAR2(40) Varchar2(50)
S_GENDER			UARCHAR2(10)
C_CODE			NUMBER

Step2: Tables are created next step is insert some data to respective tables.

Before we need to check the values are exist or not, of course once we created tables, we need to insert some values.

Checking all tables values exist or not.

```
SQL>
SQL>
SQL>
SQL> SELECT *
2 FROM UNIVERSITY;
no rows selected

SQL> SELECT *
2 FROM COLLEGE;
no rows selected

SQL> SELECT * FROM STUDENT;
no rows selected

SQL> SOL>
SQL>
```

Now row selected, we need insert some values.

DATA INSERTION

University Table Insertion

```
SQL>
     SQL> INSERT INTO UNIVERSITY VALUES(001, 'VISUESVARAYA TECHNOLOGICAL UNIVERSITY (UTV)', 08022961242,
      're@vtu.ac.in');
     1 row created.
     INSERT INTO UNIVERSITY VALUES(881, 'VISUESVARAYA TECHNOLOGICAL UNIVERSITY (VTV)', 08822961242, 're@v
     ERROR at line 1:
     ORA-00001: unique constraint (SCOTT.SYS C005965) violated
     SQL> INSERT INTO UNIVERSITY VALUES(002, 'BANGALORE UNIVERSITY', 08022961242, 'bu2register@gmail.com
');
     1 row created.
     SQL> INSERT INTO UNIVERSITY VALUES(003, 'PEOPLE EDUCATIONAL SOCIETY (PES) BANGALORE', 09019109891, '
     pesuniversity@gmail.com');
     1 row created.
     SQL> INSERT INTO UNIVERSITY VALUES(004, 'JAIN UNIVERSITY', 0801235242, 'jain@qmail.com');
     SQL> INSERT INTO UNIVERSITY VALUES(005, 'REVA UNIVERSITY', 08063532468, 'reva@gmail.com');
     1 row created.
sQL>
SQL> SELECT * FROM UNIVERSITY;
    U_CODE U_NAME
                                                                                                        U_PHNO U_EMAIL
                                                                                                   8022961242 re@vtu.ac.in
          1 VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU)
          2 BANGALORE UNIVERSITY
                                                                                                   8022961242 bu2register@gmail.com
                                                                                                   9019109891 pesuniversity@gmail.com
801235242 jain@gmail.com
          3 PEOPLE EDUCATIONAL SOCIETY (PES) BANGALORE
          4 JAIN UNIVERSITY
          5 REVA UNIVERSITY
                                                                                                   8063532468 reva@gmail.com
```

College Table Insertion

```
SQL> DESC COLLEGE;
 Name
 C_CODE
 C_NAME
C_PHNO
 U_CODE
SQL> INSERT INTO COLLEGE VALUES(0045, 'BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY DAVANAGERE', 9
18192222245, 'bietdvg@gmail.com', 001);
SQL> INSERT INTO COLLEGE VALUES(0046, 'DAYANANDA SAGAR COLLEGE OF ENGINEERING BANGALORE', 0804216175
0, 'dayanands@gmail.com', 002);
1 row created.
SQL> INSERT INTO COLLEGE VALUES(0047, 'PEOPLE EDUCATIONAL SOCIETY BANGALORE', 09742222212, 'pes@gmai
1.com', 003);
SQL> INSERT INTO COLLEGE VALUES(0048, 'JAIN INSTITUTE OF ENGINEERING', 08043430400, 'jaincollege@qma
il.com', 004);
1 row created.
SQL> INSERT INTO COLLEGE VALUES(0049, 'REVA INSTITUTE OF ENGINEERING AND TECHNOLOGY BANGALORE', 0741 1469018, 'revacollege@gmail.com', 005);
1 row created.
SQL> SELECT *
   2 FROM COLLEGE;
     C_CODE C_NAME
                                                                                                                           C_PHNO C_EMAIL
           45 BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY DAVANAGERE
46 DAYANANDA SAGAR COLLEGE OF ENGINEERING BANGALORE
47 PEOPLE EDUCATIONAL SOCIETY BANGALORE
48 JAIN INSTITUTE OF ENGINEERING
49 REVA INSTITUTE OF ENGINEERING AND TECHNOLOGY BANGALORE
                                                                                                                     9.1819E+11 bietdvg@gmail.com
8042161750 dayanands@gmail.com
                                                                                                                     9742222212 pes@gmail.com
8043430400 jaincollege@gmail.com
7411469018 revacollege@gmail.com
```

U_CODE

Student Table Insertion

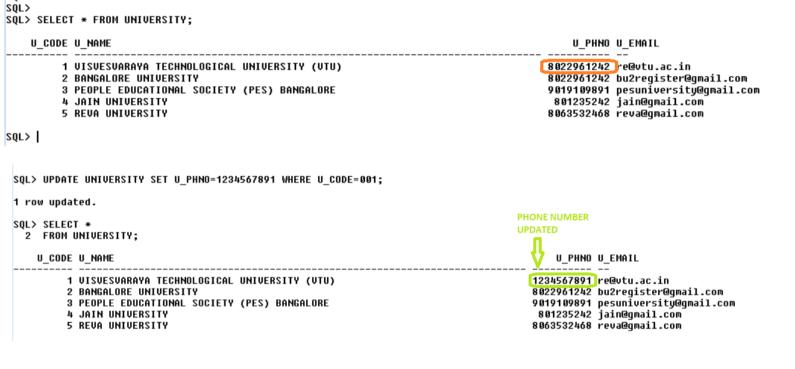
```
SOL>
SQL> INSERT INTO STUDENT VALUES('4BD19CS402', 'NAGARAJA SHIVAPPA ARALIKATTI', 6361153251, 'nagarajsa ralikatti2022@gmail.com', 'BE in CSE', 'MALE', 0045);
1 row created.
SQL> INSERT INTO STUDENT VALUES('5DSA19ME120', 'NAVEEN BOGUM', 8722116959, 'naveen@qmail.com', 'BE i
n MECH', 'MALE', 0046);
1 row created.
SQL> INSERT INTO VALUES('6PES18CV450', 'KEERTHY S', 819763285', 'keerthys@gmail.com', 'BE in CIVIL',
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO STUDENT VALUES('6PES18CV450', 'KEERTHY S', 819763285', 'keerthys@gmail.com', 'BE i
n CIVIL','FEMALE', 0047);
ERROR:
ORA-01756: quoted string not properly terminated
SQL> INSERT INTO STUDENT VALUES('6PES18CV450', 'KEERTHY S', 819763285, 'keerthys@gmail.com', 'BE i
2 n CIVIL','FEMALE', 0047);
1 row created.
SQL> INSERT INTO STUDENT VALUES('7JNC00480', 'RAJU S', 8899778810, 'raju@gmail.com', 'MCA in CSE', 'MALE',0048);
1 row created.
SQL> INSERT INTO STUDENT VALUES('8REVA00489', 'RAKSHITHA N', 6361153251, 'rn@gmail.com', 'B.TECH in
CSE', 'FEMALE', 0049);
1 row created.
```

		STUDENT:

N2U_2	S_NAME	S_PHNO S_EMAIL	S_COURSE	S_GENDER C	CODE
	NAVEEN BOGUM	6361153251 nagarajsaralikatti2022@gmail.com 8722116959 naveen@gmail.com 819763285 keerthys@gmail.com	BE i BE in MECH BE i n CIVIL	MALE Female	46 47
	RAJU S Rakshitha N	8899778810 raju@gmail.com 6361153251 rn@gmail.com	MCA in CSE B.TECH in CSE	MALE FEMALE	48 49

DATA UPDATING

University Table in University phone number Updating



College Table in College email Updating

SQL> UPDATE COLLEGE SET C_EMAIL='pescollege@gmail.com' WHERE C_CODE=0047;

1 row updated.

SQL> SELECT *
2 FROM COLLEGE;

C_CODE C_NAME

45 BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY DAVANAGERE

46 DAYANANDA SAGAR COLLEGE OF ENGINEERING BANGALORE

47 PEOPLE EDUCATIONAL SOCIETY BANGALORE

48 JAIN INSTITUTE OF ENGINEERING
49 REVA INSTITUTE OF ENGINEERING AND TECHNOLOGY BANGALORE

7411469018 revacollege@gmail.com
49 REVA INSTITUTE OF ENGINEERING AND TECHNOLOGY BANGALORE

7411469018 revacollege@gmail.com

Student Table Student course Updating

SQL>

		S_PHNO S_EMAIL	S_COURSE	S_GENDER	<u>c_</u>
	NAGARAJA SHIVAPPA ARALIKATTI NAUEEN BOGUM KEERTHY S	6361153251 nagarajsaralikatti2022@gmail.com 8722116959 naveen@gmail.com 819763285 keerthys@gmail.com	BE in CSE BE in Mech BE i n civil	MALE FEMALE	
	RAJU S RAKSHITHA N	8899778810 raju@gmail.com 6361153251 rn@gmail.com	MCA in CSE B.TECH in CSE	MALE Female	
> > > update st	UDENT SET S_COURSE='MCA in CSE' WHERE S_	USN='6PES18CU458';			
ow updated.					
SELECT * FROM STUD	ENT;				
ow updated.		12M=. 0.6F2.18f0.428.			

DATA DELETION

If you want to delete particular record from table, use below syntax.

DELETE FROM TABLE_NAME

WHERE ID=VALUE;

SQL> CREATE TABLE DATA (SINO NUMBER PRIMARY KEY, NAME VARCHAR(20), EMAIL VARCHAR2(35), PHNO NUMBER);

Table created.

SQL>
SQL>
DROP TABLE DATA;

Table dropped.