

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELGAUM 590014**



Database Application Development Project Report on

**“PROCTOR MANAGMENT SYSTEM”**

**By**

**SHRAI LAKSHMAN.R(1BM17CS149)**

**ASHISH CHANDER(1BM17CS148)**

**KARTHIK M SANIKOP(1BM16CS038)**

**RAHUL HK(1BM18CS415)**

Under the Guidance of

**Dr.KAYARVIZHY N**

Assistant Professor, Department of CSE

B.M.S College of Engineering

Database Application Development carried out at



Department of Computer Science and Engineering

B.M.S College of Engineering

(Autonomous college under VTU)

P.O. Box No.: 1908, Bull Temple Road, Bangalore-560 019

2018-2019

**B.M.S COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND**  
**ENGINEERING**



***CERTIFICATE***

This is to certify that the Database Application development titled “**PROCTOR MANAGMENT SYSTEM**” has been carried out by **SHRAI LAKSHMAN.R,ASHISH CHANDER,KARTHIK M,RAHUL HK** during the academic year 2018-2019.

Signature of the guide:

**Dr.KAYARVIZHY N**

Assistant Professor,  
Department of Computer Science and Engineering,  
B.M.S College of Engineering, Bangalore

Signature of the Externals:

**B.M.S COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND**  
**ENGINEERING**



***DECLARATION***

We, **ASHISH CHANDER (1BM17CS148)**, **SHRAI LAKSHMAN(1BM17CS149)**, **KARTHIK MS(1BM16CS038)**, **RAHUL HK(1BM18CS415)** students of 4<sup>th</sup> Semester, B.E, Department of Computer Science and Engineering, B.M.S College of Engineering, Bangalore, hereby declare that, this Database Application development work entitled "**PROCTOR MANAGMENT SYSTEM**" has been carried out by us under the guidance of **Dr.KAYARVIZHY N**, Assistant Professor, Department of CSE, B.M.S College of Engineering, Bangalore during the academic semester Jan-May 2019. We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

ASHISH CHANDER (1BM17CS148)

SHRAI LAKSHMAN (1BM17CS149)

KARTHIK MS (1BM16CS038)

RAHUL HK (1BM18CS415)

## **1. SHORT DESCRIPTION OF PROJECT WORK**

Development of a database application to view the CIE marks and attendance status of the students of Department of CSE. The proctor can send updates and can communicate with the student through sending reports.

## **2. REQUIREMENTS / FEATURES:**

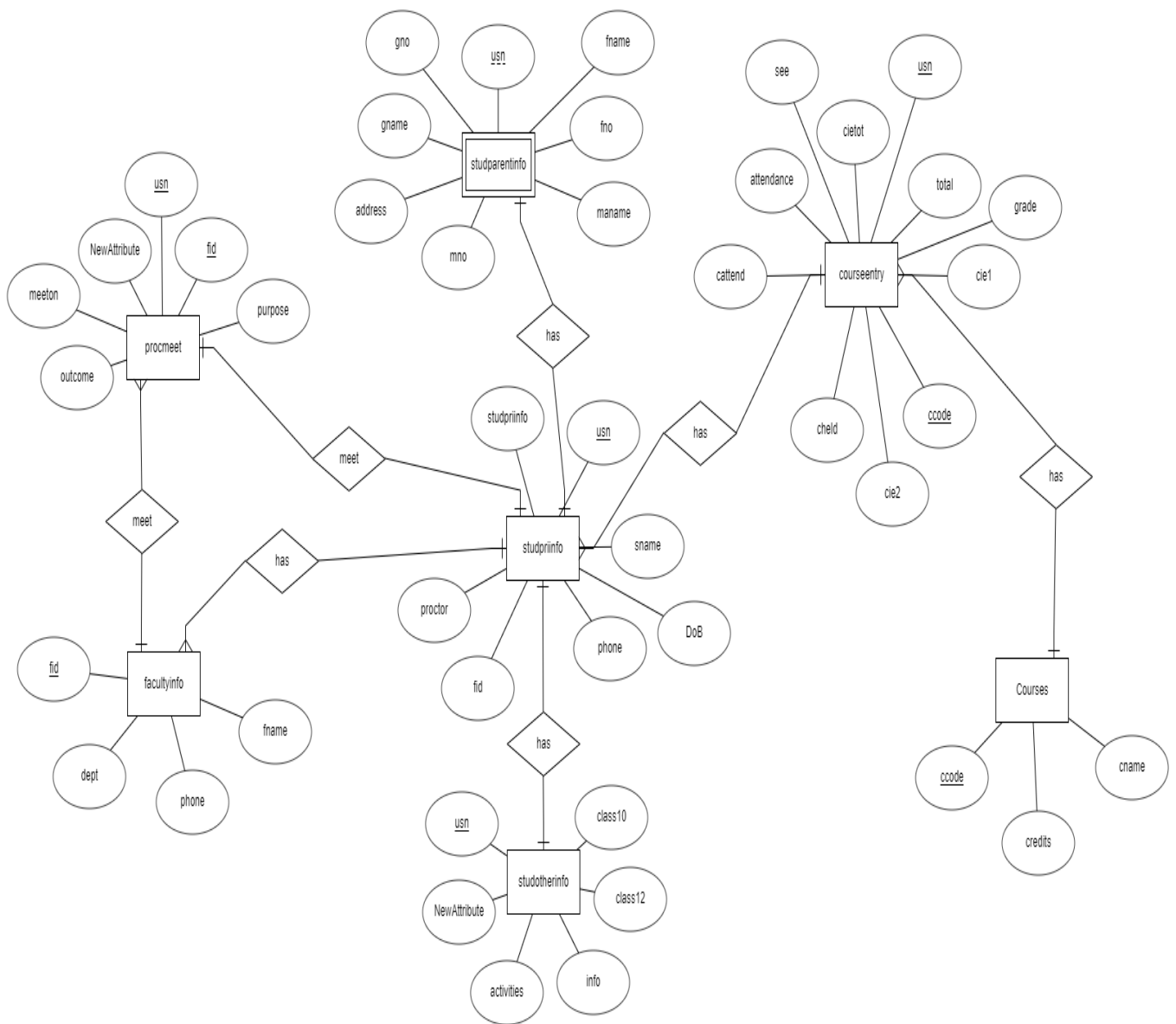
Project Requirements / Features are as follows

- a. Login portals for students and faculty(proctor).
- b. Student sign up page.
- c. Student information Storage.
- d. Course registration for students to enroll .
- e. Update and view performance reports.
- f. Update and view attendance report.
- g. Details of proctoring session and notifications for student.
- h. Remove proctoring reports and notifications of a particular student.

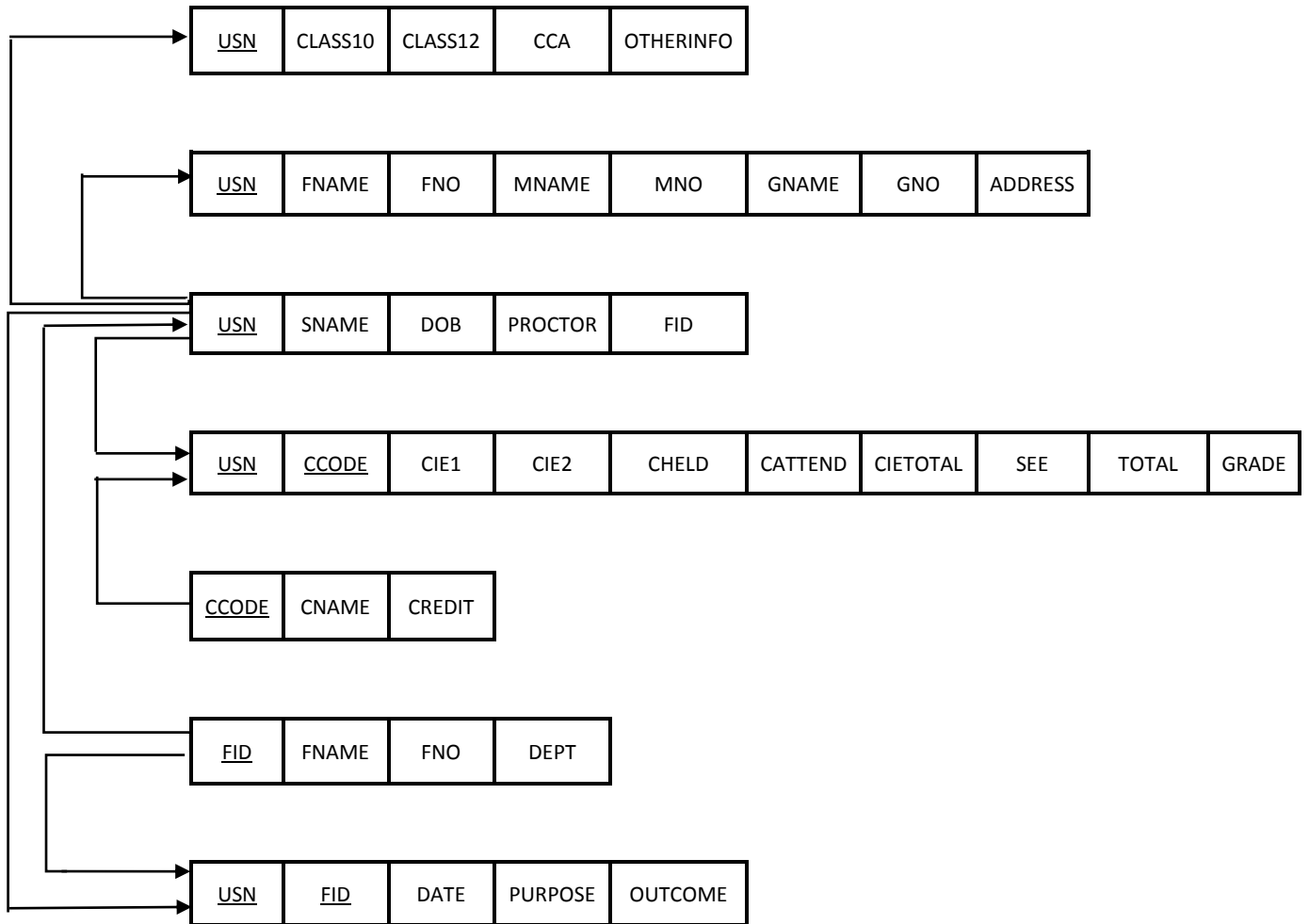
## **3.LIST OF ENTITIES, ATTRIBUTES AND KEYS**

- a. courseentry (usn (Key), ccode(key), cie1, cie2, cheld, cattend, attendance,see,total,grade)
- b. courses (ccode(Key), cname, credit)
- c. Facultyinfo (fid (Key), fname, fPh, dept)
- d. procmeet(usn(key), fid(key), meeton(key), description,outcome)
- e. studotherinfo (usn(key), cls10, cls12,cca, otherinfo)
- f.studparentinfo(usn(key),fname,fno,mname,mno,gname,gno,address)
- e.studpriinfo(usn(key),sname,dob,proctor,fid,phno)

## 4.ENTITY\_RELATIONSHIP DIAGRAM



## 5.SCHEMA DIAGRAM



## **View or Virtual tables**

### **STUDENT MODULE:**

- a. A view or virtual table to display marks of all registered courses of a particular student.

### **FACULTY MODULE:**

- a. A view or virtual table to display all the students under a particular faculty teaching a particular section.
- b. A view or virtual table to display the performance report of a particular student.
- c. A view or virtual table to auto fill the course details of a student for updating the marks and attendance of a student.

## **Constraints**

### **Column level constraints**

- a. All marked fields are required to be filled.
- b. Few columns with autofill feature has default values .
- c. On deletion of any value which is a foreign key to other table the value is set to NULL in the foreign reference table.

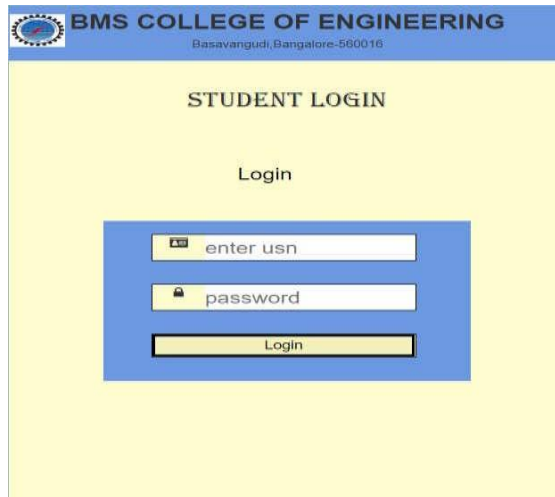
### **Table level constraints or Assertions**

- a. Students enroll in all the courses specified for their semester.
- b. Faculty handling the courses for a particular semester and section is to be specified.
- c. On adding a new course for a particular semester, students of the particular semester will be automatically enrolled for the course.

### 3. FRONT-END SCREENSHOTS

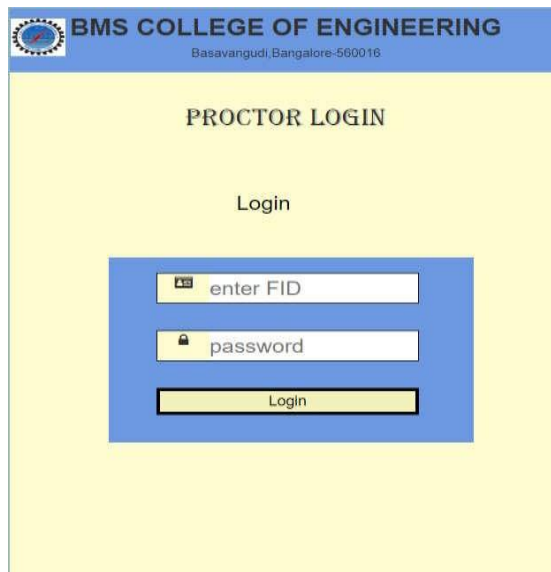
#### Login Window

##### STUDENT



The screenshot shows the 'STUDENT LOGIN' window. At the top, there is a blue header bar with the BMS College of Engineering logo on the left, the text 'BMS COLLEGE OF ENGINEERING' in the center, and 'Basavangudi, Bangalore-560016' on the right. Below the header, the text 'STUDENT LOGIN' is centered. Underneath, the word 'Login' is centered. A blue rectangular box contains three input fields: the first is labeled 'enter usn' with a user icon, the second is labeled 'password' with a lock icon, and the third is a 'Login' button.

##### PROCTOR



The screenshot shows the 'PROCTOR LOGIN' window. It has the same blue header bar as the student login window, with the BMS College of Engineering logo, 'BMS COLLEGE OF ENGINEERING', and 'Basavangudi, Bangalore-560016'. Below the header, the text 'PROCTOR LOGIN' is centered. Underneath, the word 'Login' is centered. A blue rectangular box contains three input fields: the first is labeled 'enter FID' with a user icon, the second is labeled 'password' with a lock icon, and the third is a 'Login' button.



## STUDENT PERFORMANCE DETAILS

 **BMSCE**

HomeAdd StudentReportsDelete ReportUpdate RecordLogout

Student Performance Details:

USN:

sl no.	course code	course name	Credits	CIE-1	CIE-2	SEE	Classes held	Classes attended
1.				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## PROCTOR MEET REPORT

 **BMSCE**

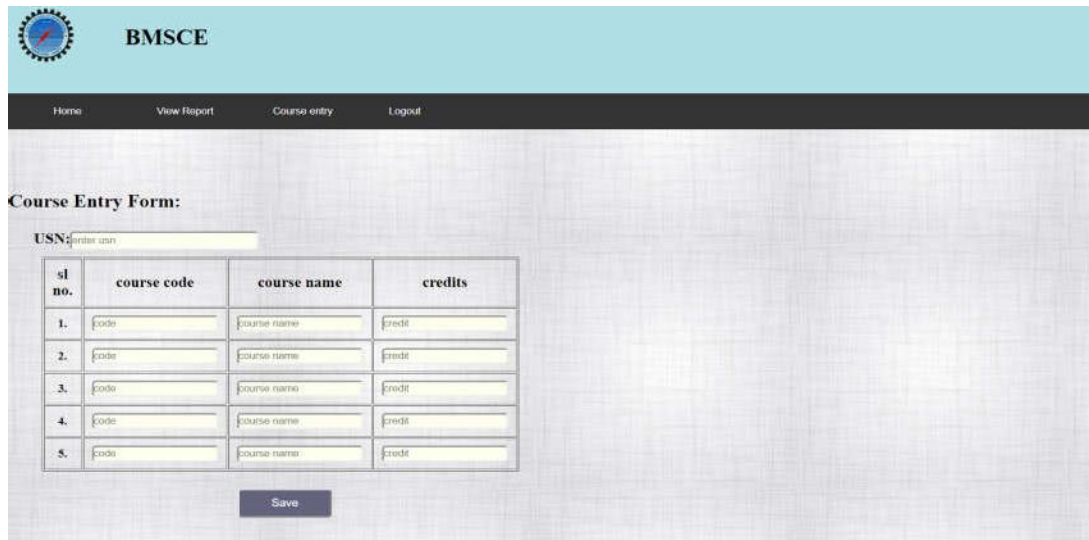
HomeView ReportCourse entryLogout

Welcome ashish chander !

Proctor Meet Report:

Date	Purpose	Description
11-4-2019	check	check

## COURSE ENTRY FORM

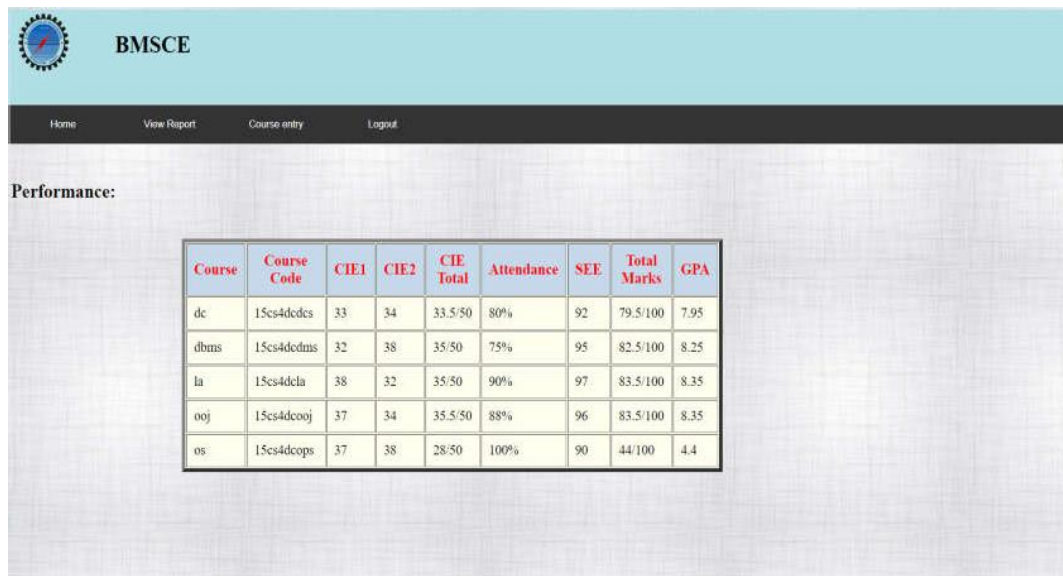


**Course Entry Form:**

USN:

sl no.	course code	course name	credits
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>


## PERFORMANCE



**Performance:**

Course	Course Code	CIE1	CIE2	CIE Total	Attendance	SEE	Total Marks	GPA
dc	15cs4dcacs	33	34	33.5/50	80%	92	79.5/100	7.95
dbms	15cs4dcdms	32	38	35/50	75%	95	82.5/100	8.25
la	15cs4dcia	38	32	35/50	90%	97	83.5/100	8.35
ooj	15cs4dcooj	37	34	35.5/50	88%	96	83.5/100	8.35
os	15cs4dcops	37	38	28/50	100%	90	44/100	4.4

## PROCTOR MEET REPORT

 **BMSCE**

[Home](#) [Add Student](#) [Reports](#) [Delete Report](#) [Update Record](#) [Logout](#)

  
**Proctor Meet Report:**  

**Faculty ID:**

**USN:**

**Date:**

**Purpose:**

**Outcome:**

## STUDENT INFORMATION FORM

**Student Information**

**1.Full Name:**

**2.USN:**

**3.DateOfBirth:**

**4.ContactNumber:**

**5.E-mail:**

**6.Proctor:**

**7.Proctor Id:**

**8.Parent's Details\***


**Father's Name:**

**Contact Number:**

**Mother's Name:**

**Contact Number:**

## STUDENT DETAILS

 **BMSCE**


[Home](#) [Add Student](#) [Reports](#) [Delete Reports](#) [Update Record](#) [Logout](#)

Welcome kv! !

Student Details:

USN	Student Name	Contact no.
1bm17cs148	ashish chander	9080908090

## DELETE REPORTS

 **BMSCE**

[Home](#) [Add Student](#) [Reports](#) [Delete Reports](#) [Update Record](#) [Logout](#)

Delete Reports:

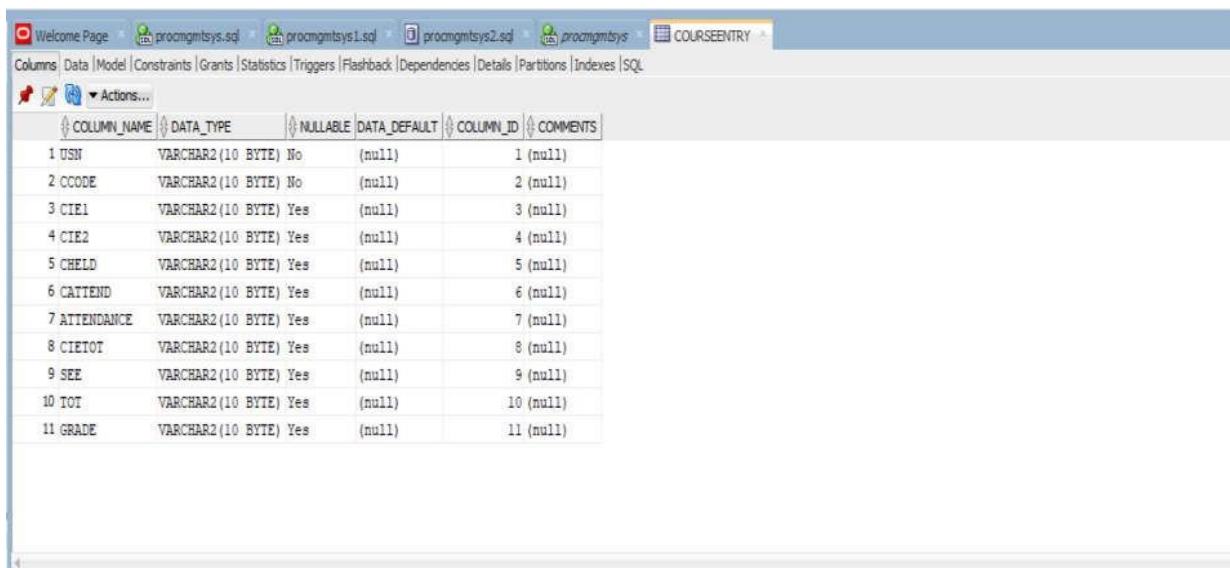
Student Name:  USN:

## 4.BACK-END SCREENSHOTS

### TABLE DESCRIPTION

1	USN	VARCHAR2(10 BYTE)	No	(null)	1 (null)
2	CCODE	VARCHAR2(10 BYTE)	No	(null)	2 (null)
3	CIE1	VARCHAR2(10 BYTE)	Yes	(null)	3 (null)
4	CIE2	VARCHAR2(10 BYTE)	Yes	(null)	4 (null)
5	CHELD	VARCHAR2(10 BYTE)	Yes	(null)	5 (null)
6	CATTEND	VARCHAR2(10 BYTE)	Yes	(null)	6 (null)
7	ATTENDANCE	VARCHAR2(10 BYTE)	Yes	(null)	7 (null)
8	CIE1TOT	VARCHAR2(10 BYTE)	Yes	(null)	8 (null)
9	SEE	VARCHAR2(10 BYTE)	Yes	(null)	9 (null)
10	TOT	VARCHAR2(10 BYTE)	Yes	(null)	10 (null)
11	GRADE	VARCHAR2(10 BYTE)	Yes	(null)	11 (null)

### COURSE ENTRY TABLE

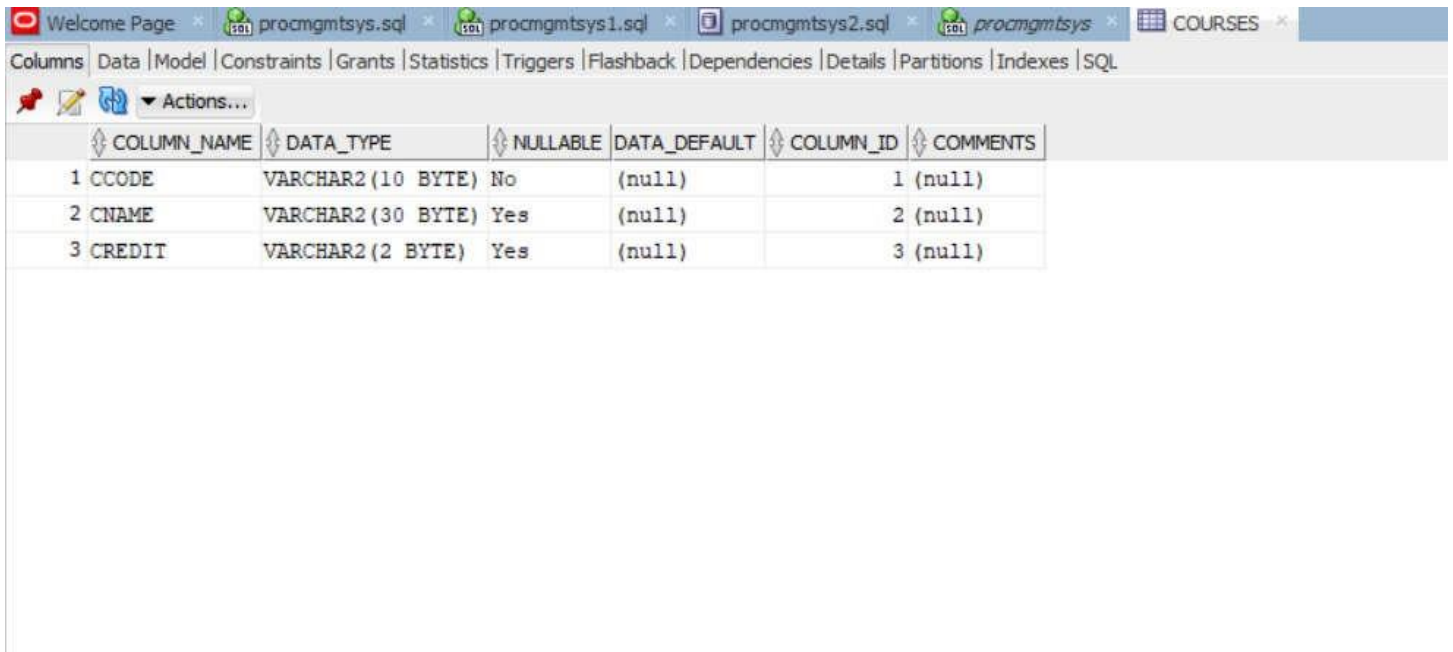


COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 USN	VARCHAR2(10 BYTE)	No	(null)	1	(null)
2 CCODE	VARCHAR2(10 BYTE)	No	(null)	2	(null)
3 CIE1	VARCHAR2(10 BYTE)	Yes	(null)	3	(null)
4 CIE2	VARCHAR2(10 BYTE)	Yes	(null)	4	(null)
5 CHELD	VARCHAR2(10 BYTE)	Yes	(null)	5	(null)
6 CATTEND	VARCHAR2(10 BYTE)	Yes	(null)	6	(null)
7 ATTENDANCE	VARCHAR2(10 BYTE)	Yes	(null)	7	(null)
8 CIE1TOT	VARCHAR2(10 BYTE)	Yes	(null)	8	(null)
9 SEE	VARCHAR2(10 BYTE)	Yes	(null)	9	(null)
10 TOT	VARCHAR2(10 BYTE)	Yes	(null)	10	(null)
11 GRADE	VARCHAR2(10 BYTE)	Yes	(null)	11	(null)

### NORMALIZATION

All the tables satisfies up to third normal form because it does not contain any non-atomic columns, partial functional dependency and transitive functional dependency and multivalued attributes.

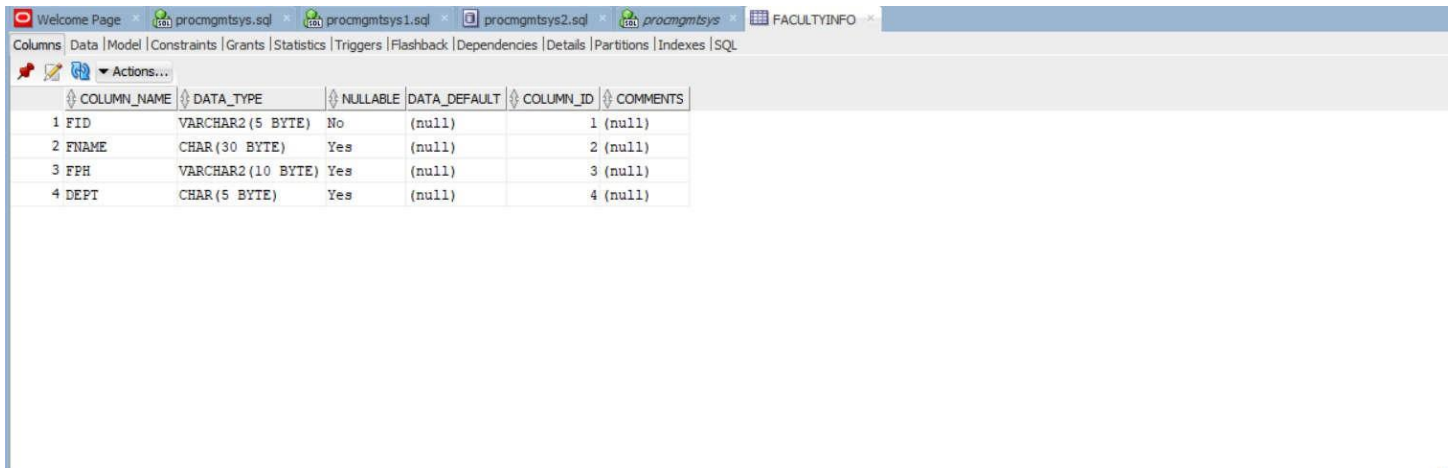
## COURSES TABLE



The screenshot shows a database management tool interface with multiple tabs. The 'COURSES' tab is active, displaying the table's structure. The table has three columns: CCODE, CNAME, and CREDIT. The columns are defined with data types, nullability, and default values.

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	CCODE	VARCHAR2(10 BYTE)	No	(null)	1	(null)
2	CNAME	VARCHAR2(30 BYTE)	Yes	(null)	2	(null)
3	CREDIT	VARCHAR2(2 BYTE)	Yes	(null)	3	(null)

## FACULTY INFO



The screenshot shows a database management tool interface with multiple tabs. The 'FACULTYINFO' tab is active, displaying the table's structure. The table has four columns: FID, FNAME, FPH, and DEPT. The columns are defined with data types, nullability, and default values.

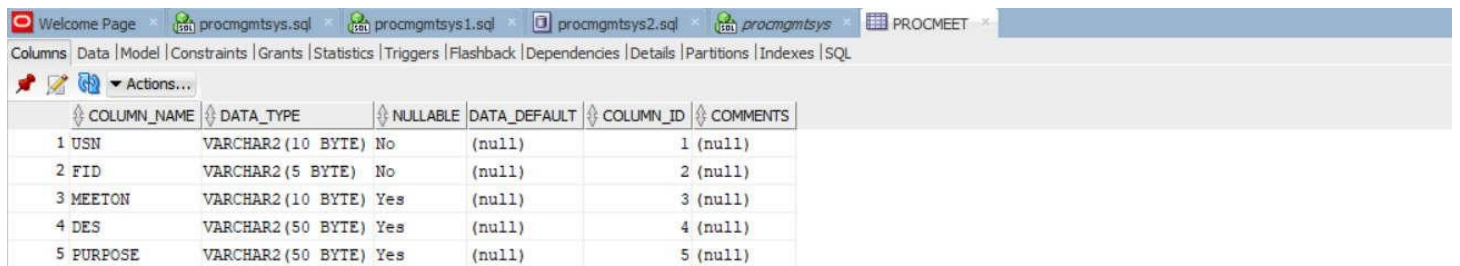
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	FID	VARCHAR2(5 BYTE)	No	(null)	1	(null)
2	FNAME	CHAR(30 BYTE)	Yes	(null)	2	(null)
3	FPH	VARCHAR2(10 BYTE)	Yes	(null)	3	(null)
4	DEPT	CHAR(5 BYTE)	Yes	(null)	4	(null)

## NORMALIZATION

All the tables satisfies up to third normal form because it does not contain any non-atomic columns, partial functional dependency and transitive functional dependency and multivalued attributes.



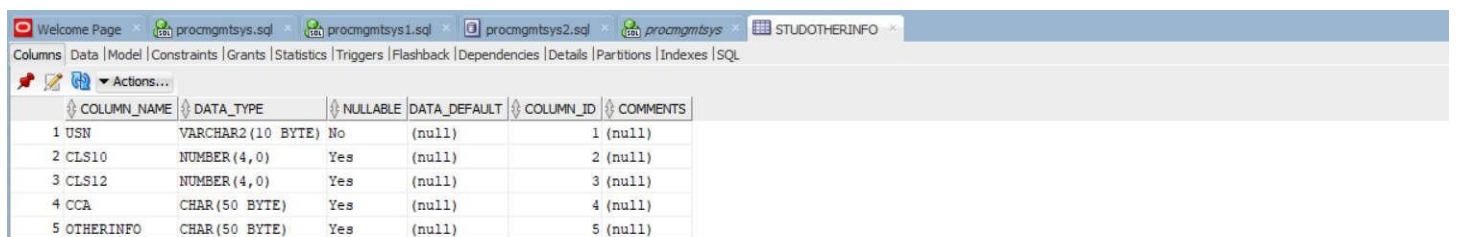
## PROCMEET TABLE



The screenshot shows a database management tool interface with multiple tabs. The 'PROCMEET' tab is active, displaying the table structure. The table has five columns: USN, FID, MEETON, DES, and PURPOSE. Each column is of type VARCHAR2 with varying lengths and is nullable. The comments for each column are (null).

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 USN	VARCHAR2(10 BYTE)	No	(null)	1 (null)	
2 FID	VARCHAR2(5 BYTE)	No	(null)	2 (null)	
3 MEETON	VARCHAR2(10 BYTE)	Yes	(null)	3 (null)	
4 DES	VARCHAR2(50 BYTE)	Yes	(null)	4 (null)	
5 PURPOSE	VARCHAR2(50 BYTE)	Yes	(null)	5 (null)	

## STUDOTHERINFO TABLE



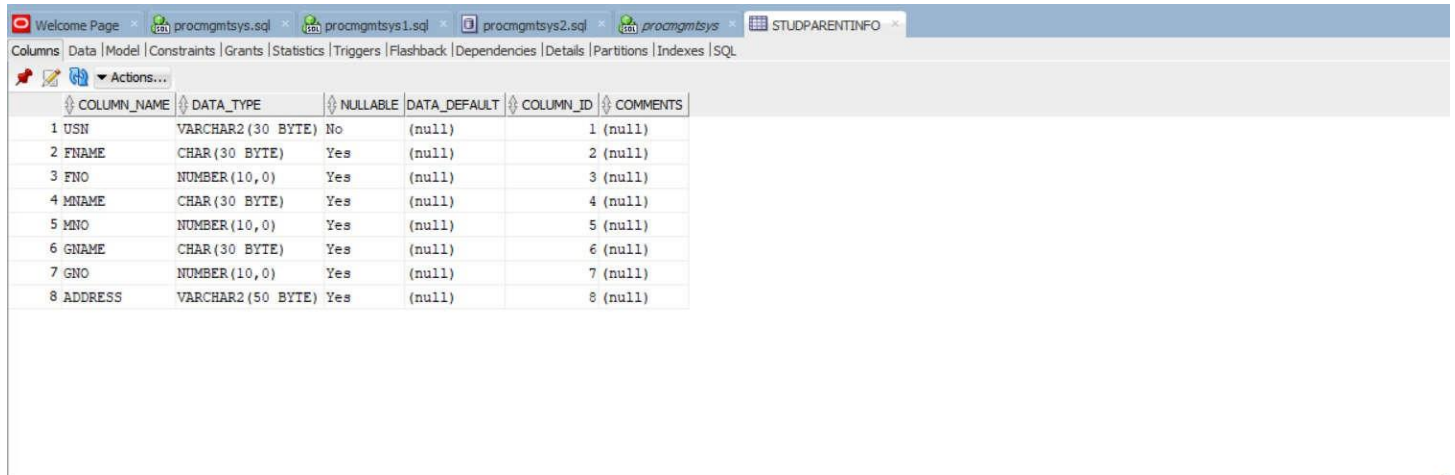
The screenshot shows a database management tool interface with multiple tabs. The 'STUDOTHERINFO' tab is active, displaying the table structure. The table has five columns: USN, CLS10, CLS12, CCA, and OTHERINFO. The data types are VARCHAR2, NUMBER, and CHAR. The nullable status and default values are also shown. The comments for each column are (null).

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 USN	VARCHAR2(10 BYTE)	No	(null)	1 (null)	
2 CLS10	NUMBER(4,0)	Yes	(null)	2 (null)	
3 CLS12	NUMBER(4,0)	Yes	(null)	3 (null)	
4 CCA	CHAR(50 BYTE)	Yes	(null)	4 (null)	
5 OTHERINFO	CHAR(50 BYTE)	Yes	(null)	5 (null)	

## NORMALIZATION

All the tables satisfies up to third normal form because it does not contain any non-atomic columns, partial functional dependency and transitive functional dependency and multivalued attributes.

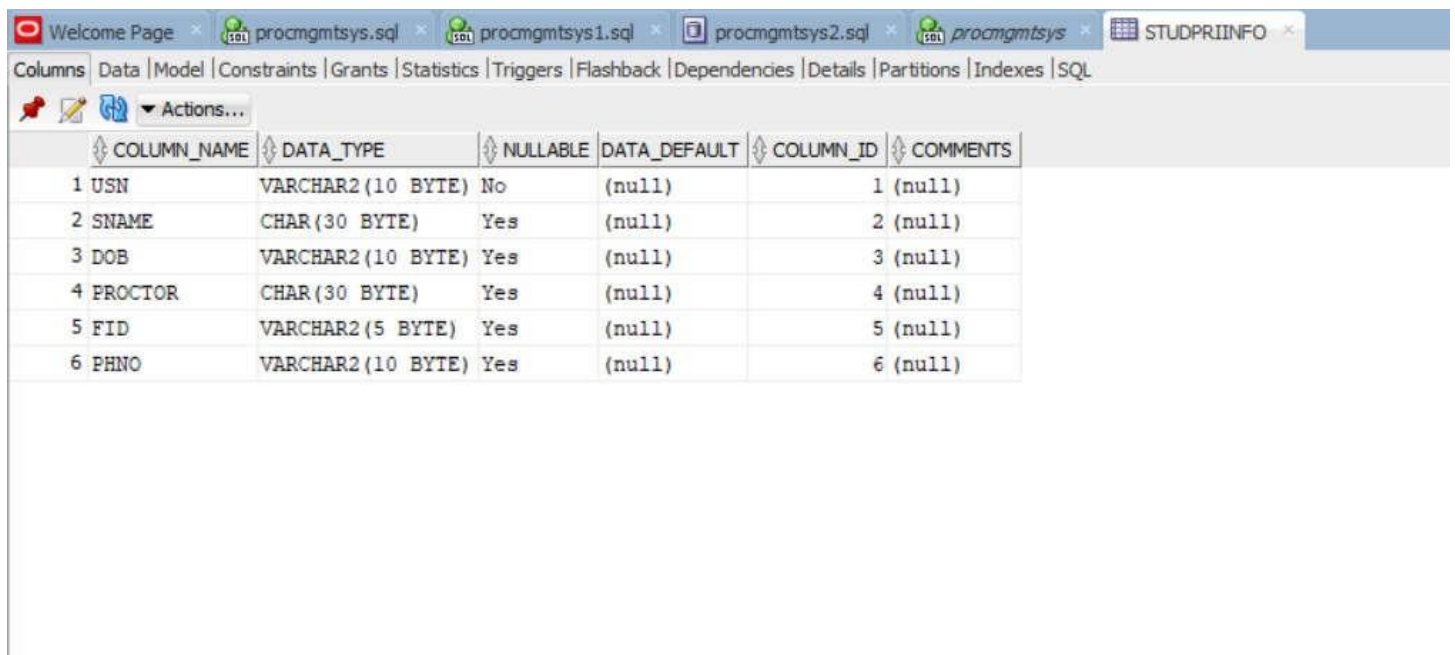
## STUDENT PARENT INFO TABLE



The screenshot shows the SQL Developer interface with the 'STUDPARENTINFO' table selected. The 'Columns' tab is active, displaying the following table structure:

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 USN	VARCHAR2(30 BYTE)	No	(null)	1 (null)	
2 FNAME	CHAR(30 BYTE)	Yes	(null)	2 (null)	
3 FNO	NUMBER(10,0)	Yes	(null)	3 (null)	
4 MNAME	CHAR(30 BYTE)	Yes	(null)	4 (null)	
5 MNO	NUMBER(10,0)	Yes	(null)	5 (null)	
6 GNAME	CHAR(30 BYTE)	Yes	(null)	6 (null)	
7 GNO	NUMBER(10,0)	Yes	(null)	7 (null)	
8 ADDRESS	VARCHAR2(50 BYTE)	Yes	(null)	8 (null)	

## STUDENTPRII INFO



The screenshot shows the SQL Developer interface with the 'STUDPRIINFO' table selected. The 'Columns' tab is active, displaying the following table structure:

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 USN	VARCHAR2(10 BYTE)	No	(null)	1 (null)	
2 SNAME	CHAR(30 BYTE)	Yes	(null)	2 (null)	
3 DOB	VARCHAR2(10 BYTE)	Yes	(null)	3 (null)	
4 PROCTOR	CHAR(30 BYTE)	Yes	(null)	4 (null)	
5 FID	VARCHAR2(5 BYTE)	Yes	(null)	5 (null)	
6 PHNO	VARCHAR2(10 BYTE)	Yes	(null)	6 (null)	

## NORMALIZATION

All the tables satisfies up to third normal form because it does not contain any non-atomic columns, partial functional dependency and transitive functional dependency and multivalued attributes.





