

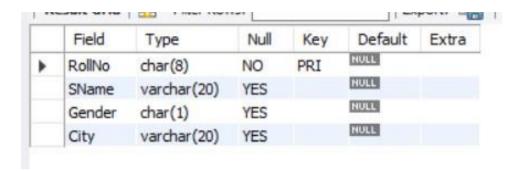
## DBMS LAB-3

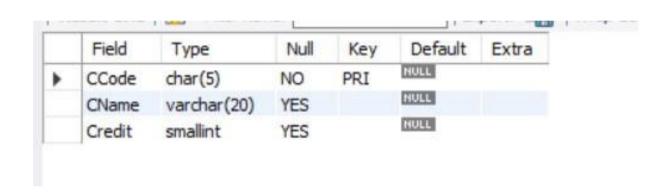
Screenshots



JANUARY 31, 2022 JITIN CS20B1075

## Q1.





	Field	Type	Null	Key	Default	Extra
•	RollNo	char(8)	YES	MUL	NULL	
	CCode	char(5)	YES	MUL	NULL	
	YoE	int	YES		NULL	

A. In the Course table add a column course type (CType varchar(20)). This CType will take a value from Core, Elective, or Open Elective. In the Student table add a column Email of varchar(30). This column should be unique and only one email value is to be inserted. Insert email values in "username@domain-name" format.

RollNo	SName	Gender	City	Email
1901CS01	abc	M	Hyderabad	   abc@gmail.com
1901CS02	abcd	М	Hyderabad	abcd@gmail.com
1901CS03	aa	М	Hyderabad	aa@gmail.com
1901CS04	ac	F	Chennai	ac@gmail.com
1901CS99	abccc	М	Delhi	abccc@yahoo.com
1901EC01	bb	F	Chennai	bb@yahoo.com
1901EC02	aaa	F	Delhi	aaa@yahoo.com
1901EC03	abbb	F	Delhi	abbb@gmail.com
1901ME01	ab	F	Delhi	ab@gmail.com

```
mysql> select* from enrolled;
 RollNo
           | CCode | YoE
 1901EC01
             CS100
                      2019
 1901EC01
             EC101
                      2018
 1901EC01
             EC500
                      2020
             EC201
 1901EC01
                      2019
 1901EC01
             CS101
                      2019
 1901CS02
             CS502
                      2017
 1901CS02
             CS502
                      2020
 1901CS03
             CS100
                      2019
 1901CS03
             CS101
                      2020
 1901CS03
             CS501
                      2020
 1901ME01
             CS100
                      2020
 1901CS03
             CS101
                      2020
 1901CS03
             ME101
                      2020
 1901CS03
             CS201
                      2020
 1901CS03
             EC101
                      2020
 1901CS99
             CS100
                      2019
 1901CS99
             CS101
                      2020
 1901CS99
             CS501
                      2020
 1901CS01
             CS100
                      2019
 1901CS01
             CS101
                      2020
 1901CS01
             CS501
                      2020
 1901EC02
             CS100
                      2020
 1901EC02
             CS101
                      2020
 1901EC02
             ME101
                      2020
 1901EC02
             CS201
                      2020
 1901EC03
             CS100
                      2020
26 rows in set (0.00 sec)
mysql> select * from course
 CCode | CName | Credit | CType
 CS100
          PSP
                       4
                            Core
 CS101
          DSCS
                        2
                            Core
 CS201
          DBMS
                        4
                            Open ELective
 CS501
          OS
                            Elective
 CS502
          CD
                            Elective
                       4
 EC101
          DSD
                            Core
 EC201
          ET
                            Elective
 EC500
          IOT
                            Open ELective
                        4
 ME101 |
          MSE
                       4
                           Core
 rows in set (0.00 sec)
```

B. Find the name of all the courses which start with "CS"code.

```
mysql> select * from course where CCode like "CS%";

| CCode | CName | Credit | CType |
| CS100 | PSP | 4 | Core |
| CS101 | DSCS | 2 | Core |
| CS201 | DBMS | 4 | Open ELective |
| CS501 | OS | 3 | Elective |
| CS502 | CD | 4 | Elective |

5 rows in set (0.01 sec)
```

C. Find the name of the male students who have at least two "a"s in their names.

```
mysql> Select * from student where Gender="M" AND SName LIKE "%a%a%";

| RollNo | SName | Gender | City | Email |

+-----+
| 1901CS03 | aa | M | Hyderabad | aa@gmail.com |

+-----+
1 row in set (0.00 sec)
```

D. Find the students who have not enrolled in between 2018 and 2019.

```
mysql> SELECT * FROM Enrolled WHERE NOT YoE=2018;
| RollNo | CCode | YoE |
1901CS01 | CS100 | 2019
 1901CS01 | CS101 | 2020
 1901CS01 | CS501 | 2020
 1901EC01 | CS100 | 2019
 1901EC01 | EC500 | 2020
 1901EC01 | EC201 | 2019
 1901EC01 | CS101 |
                    2019
 1901CS02 | CS502 |
                    2017
 1901CS02 | CS502 |
                    2020
 1901CS03 | CS100 |
                    2019
 1901CS03 | CS101 | 2020
 1901CS03 | CS501 | 2020
 1901ME01 | CS100 | 2020
 1901CS03 | CS101 | 2020
 1901CS03 | ME101 | 2020
 1901CS03 | CS201 | 2020
 1901CS03 | EC101 | 2020 |
17 rows in set (0.01 sec)
mysql> SELECT * FROM Enrolled WHERE NOT YoE=2018 AND NOT YoE=2019;
 RollNo | CCode | YoE |
| 1901CS01 | CS101 | 2020 |
1901CS01 | CS501 | 2020
 1901EC01 | EC500 | 2020
 1901CS02 | CS502 | 2017
 1901CS02 | CS502 | 2020
 1901CS03 | CS101 | 2020
 1901CS03 | CS501 | 2020
 1901ME01 | CS100 | 2020
 1901CS03 | CS101 | 2020
 1901CS03 | ME101 | 2020
 1901CS03 | CS201 | 2020
 1901CS03 | EC101 | 2020 |
12 rows in set (0.00 sec)
```

## E. Find the course with least credit.

F. Find the name of the Course which is not enrolled by any students in the year 2020.

```
mysql> select CName from Course where not CCode in (select CCode from enrolled where YoE=2020);

+-----+

| CName |

+-----+

| ET |

+-----+

1 row in set (0.00 sec)
```

G. Find the total number of students city wise.

H. Find the rollno of the students who have enrolled to 5 number of courses.

I. Find the total number of courses enrolled by student with roll no "1901CS99".

```
mysql> select RollNo,count(CCode) from Enrolled where RollNo="1901CS99";

| RollNo | count(CCode) |

+------+
| 1901CS99 | 3 |

+-----+
1 row in set (0.00 sec)
```

J. Find all the 5 level courses (the digits parts of the course code should start with 5).

K. Count the number of students containing "CS" as part of the RollNo.

```
mysql> select *from Student where RollNo like '%CS%';
                                      Email
 RollNo | SName | Gender | City
 1901CS01 abc
                   M | Hyderabad | abc@gmail.com
                           | Hyderabad | abcd@gmail.com
| Hyderabad | aa@gmail.com
| Chennai | ac@gmail.com
 1901CS02 | abcd | M
                   M
 1901CS03 | aa
                    F
 1901CS04 ac
  1901CS99 | abccc | M
                              Delhi | abccc@yahoo.com
 rows in set (0.00 sec)
mysql> select count(RollNo) from Student where RollNo like '%CS%';
 count(RollNo)
              5 1
1 row in set (0.01 sec)
```

L. Find the roll no of students who have enrolled in more than 4 courses in the year 2020.

M. Find the course code which is taken by most number of female students who are from Delhi city.

```
mysql> select *,count(CCode) from Enrolled,student where Gender='F' and City = 'Delhi'and Enrolled.RollNo=student.RollNo GROUP BY CCode ORDER BY count(CCode) DESC LIMIT 1;

| RollNo | CCode | YoE | RollNo | SName | Gender | City | Email | count(CCode) |

| 1901EC02 | CS100 | 2020 | 1901EC02 | aaa | F | Delhi | aaa@yahoo.com | 3 |

1 row in set (0.00 sec)
```

N. Find the name of all the students whose email ids have "gmail.com" or "yahoo.com" as the domain name.

```
mysql> select * from student where email like "%gmail.com" or email like "%yahoo.com";
 RollNo
           | SName | Gender | City
                                          Email
 1901CS01
                              Hyderabad |
                                          abc@gmail.com
            abc
 1901CS02
            abcd
                              Hyderabad
                                          abcd@gmail.com
 1901CS03
                              Hyderabad |
                                          aa@gmail.com
            aa
 1901CS04
                              Chennai
                                          ac@gmail.com
            ac
 1901CS99
                              Delhi
                                          abccc@yahoo.com
            abccc
                              Chennai
                                          bb@yahoo.com
 1901EC01
            bb
                              Delhi
                                          aaa@yahoo.com
 1901EC02
            aaa
 1901EC03
            abbb
                              Delhi
                                          abbb@gmail.com
                                          ab@gmail.com
 1901ME01
            ab
                              Delhi
 rows in set (0.00 sec)
```