

```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

```
3 rows in set (0.01 sec)
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	NO	PRI	NULL	
SName	varchar(20)	NO		NULL	
Gender	char(1)	NO		NULL	
City	varchar(20)	YES		NULL	

```
4 rows in set (0.02 sec)
```

```
mysql> describe course;
```

Field	Type	Null	Key	Default	Extra
CCode	char(5)	NO	PRI	NULL	
CName	varchar(20)	NO		NULL	
Credit	smallint	NO		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> describe enrolled;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	YES	MUL	NULL	
CCode	char(5)	YES	MUL	NULL	
YoE	int	NO		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

3 rows in set (0.01 sec)

```
mysql> describe student ;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	NO	PRI	NULL	
SName	varchar(20)	NO		NULL	
Gender	char(1)	NO		NULL	
City	varchar(20)	YES		NULL	
Email	varchar(30)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> describe course;
```

Field	Type	Null	Key	Default	Extra
CCode	char(5)	NO	PRI	NULL	
CName	varchar(20)	NO		NULL	
Credit	smallint	NO		NULL	
CType	varchar(20)	NO		NULL	

4 rows in set (0.02 sec)

```
mysql> _
```

```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

3 rows in set (0.00 sec)

```
mysql> select * from student;
```

RollNo	SName	Gender	City	Email
1901CS99	Arun Avasthi	M	Jaipur	1901cs99@gmail.com
2018EC01	Srinidhi	F	Delhi	2018ec01@gmail.com
2019ME01	Lahari	F	Delhi	2019me01@yahoo.com
2020CS01	Prasad Ravi	M	Hyderabad	2020cs01@yahoo.com
2020CS02	Meghana	F	Vijayawada	2020cs02@gmail.com
2020EC02	Nischal	M	Chandigarh	2020ec02@yahoo.com

6 rows in set (0.00 sec)

```
mysql>
```



Desktop



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```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

3 rows in set (0.00 sec)

```
mysql> select * from course;
```

CCode	CName	Credit	CType
CS100	Materials	1	Elective
CS201	DSA	2	Core
CS502	DSCS	5	Open Elective
CS503	DBMS	5	Core
EC500	Circuits	5	Core
EC501	Design	5	Elective
ME300	AutoCad	3	Elective
ME401	Machines	4	Core

8 rows in set (0.00 sec)

```
mysql> _
```



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```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

3 rows in set (0.00 sec)

```
mysql> select * from enrolled;
```

RollNo	CCode	YoE
1901CS99	CS100	1901
1901CS99	CS201	1901
1901CS99	ME300	1901
1901CS99	EC500	1901
1901CS99	CS503	1901
2020CS01	CS100	2020
2020CS01	CS201	2020
2020CS01	ME300	2020
2020CS01	EC500	2020
2019ME01	CS100	2020
2019ME01	CS201	2020
2019ME01	ME300	2020
2019ME01	ME401	2020
2020CS02	CS100	2021
2018EC01	ME300	2018
2020EC02	EC500	2020

16 rows in set (0.00 sec)

```
mysql>
```



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```
mysql> select CName from Course where CCode like 'CS%';
```

CName
Materials
DSA
DSCS
DBMS

```
4 rows in set (0.02 sec)
```

```
mysql>
```

```
mysql> show tables;
```

Tables_in_dblab1
course
enrolled
student

```
3 rows in set (0.00 sec)
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	NO	PRI	NULL	
SName	varchar(20)	NO		NULL	
Gender	char(1)	NO		NULL	
City	varchar(20)	YES		NULL	
Email	varchar(30)	YES		NULL	

```
5 rows in set (0.01 sec)
```

```
mysql> select SName from student where SName like '%a%a%' and Gender='M';
```

SName
Arun Avasthi
Prasad Ravi

```
2 rows in set (0.00 sec)
```

```
mysql> _
```

```
mysql> select * from student where RollNo not between '2018%' and '2020%';
```

RollNo	SName	Gender	City	Email
1901CS99	Arun Avasthi	M	Jaipur	1901cs99@gmail.com
2020CS01	Prasad Ravi	M	Hyderabad	2020cs01@yahoo.com
2020CS02	Meghana	F	Vijayawada	2020cs02@gmail.com
2020EC02	Nischal	M	Chandigarh	2020ec02@yahoo.com

```
4 rows in set (0.00 sec)
```

```
mysql>
```



```
mysql> select * from course where Credit=(select min(Credit) from course);
```

CCode	CName	Credit	CType
CS100	Materials	1	Elective

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

```
mysql>
```

```
mysql> select city,count(city) from student group by city;
```

city	count(city)
Jaipur	1
Delhi	2
Hyderabad	1
Vijayawada	1
Chandigarh	1

```
5 rows in set (0.00 sec)
```

```
mysql> _
```

```
mysql> describe enrolled;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	YES	MUL	NULL	
CCode	char(5)	YES	MUL	NULL	
YoE	int	NO		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> select count(CCode) from enrolled where rollno='1901CS99';
```

count(CCode)
5

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

```
mysql> _
```



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MySQL 8.0 Command Line Client

```
mysql> select CName,CCode from course where CCode not in(select CCode from enrolled where yoe=2020);
```

CName	CCode
DSCS	CS502
DBMS	CS503
Design	EC501

3 rows in set (0.00 sec)

```
mysql>
```

```
mysql> describe course;
```

Field	Type	Null	Key	Default	Extra
CCode	char(5)	NO	PRI	NULL	
CName	varchar(20)	NO		NULL	
Credit	smallint	NO		NULL	
CType	varchar(20)	NO		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> select * from course where CCode like '__5%';
```

CCode	CName	Credit	CType
CS502	DSCS	5	Open Elective
CS503	DBMS	5	Core
EC500	Circuits	5	Core
EC501	Design	5	Elective

```
4 rows in set (0.00 sec)
```

```
mysql> _
```

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
RollNo	char(8)	NO	PRI	NULL	
SName	varchar(20)	NO		NULL	
Gender	char(1)	NO		NULL	
City	varchar(20)	YES		NULL	
Email	varchar(30)	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> select count(rollno) from student where rollno like '%CS%';
```

count(rollno)
3

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

```
mysql> _
```

```
mysql> select * from student;
```

RollNo	SName	Gender	City	Email
1901CS99	Arun Avasthi	M	Jaipur	1901cs99@gmail.com
2018EC01	Srinidhi	F	Delhi	2018ec01@gmail.com
2019ME01	Lahari	F	Delhi	2019me01@yahoo.com
2020CS01	Prasad Ravi	M	Hyderabad	2020cs01@yahoo.com
2020CS02	Meghana	F	Vijayawada	2020cs02@gmail.com
2020EC02	Nischal	M	Chandigarh	2020ec02@yahoo.com
2020ME02	Singh	M	Punjab	2020ec02@iiitdm.ac.in

```
7 rows in set (0.00 sec)
```

```
mysql> select * from student where email like '%@gmail.com' or email like '%@yahoo.com';
```

RollNo	SName	Gender	City	Email
1901CS99	Arun Avasthi	M	Jaipur	1901cs99@gmail.com
2018EC01	Srinidhi	F	Delhi	2018ec01@gmail.com
2019ME01	Lahari	F	Delhi	2019me01@yahoo.com
2020CS01	Prasad Ravi	M	Hyderabad	2020cs01@yahoo.com
2020CS02	Meghana	F	Vijayawada	2020cs02@gmail.com
2020EC02	Nischal	M	Chandigarh	2020ec02@yahoo.com

```
6 rows in set (0.00 sec)
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```
mysql> select * from student;
```

RollNo	SName	Gender	City	Email
1901CS99	Arun Avasthi	M	Jaipur	1901cs99@gmail.com
2018EC01	Srinidhi	F	Delhi	2018ec01@gmail.com
2019ME01	Lahari	F	Delhi	2019me01@yahoo.com
2020CS01	Prasad Ravi	M	Hyderabad	2020cs01@yahoo.com
2020CS02	Meghana	F	Vijayawada	2020cs02@gmail.com
2020EC02	Nischal	M	Chandigarh	2020ec02@yahoo.com
2020ME02	Singh	M	Punjab	2020ec02@iiitdm.ac.in

```
7 rows in set (0.00 sec)
```

```
mysql> select rollno,count(ccode) from enrolled group by rollno having count(ccode)=5 ;
```

rollno	count(ccode)
1901CS99	5

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

```
mysql> select rollno,count(ccode) from enrolled group by rollno having count(ccode)>=4 ;
```

rollno	count(ccode)
1901CS99	5
2019ME01	4
2020CS01	4

```
3 rows in set (0.00 sec)
```

```
mysql>
```