

Database Management System(DBMS)

DATABASE 1

```
mysql> CREATE DATABASE collage_info;
```

```
mysql> USE collage_info;
```

```
mysql> CREATE TABLE student(Name varchar(50), Address varchar(50), Phone_no double,  
Email varchar(35), Marks int);
```

```
mysql> DESC student;
```

Field	Type	Null	Key	Default	Extra
Name	Varchar(50)	YES		NULL	
Address	Varchar(50)	YES		NULL	
Phone_no	double	YES		NULL	
Email	varchar(35	YES		NULL	
Marks	int	YES		NULL	

```
mysql> INSERT INTO student VALUES("Avishek Yadav", "Patna", 9189004775,  
"avishek@065gmail.com", 500),  
("Subhasis Addya", "Durgapur", 9189504785, "subhasisaddya@gmail.com", 658),  
("Koushik Bannerjee", "Raniganj", 9189040995, "kousik@065gmail.com", 800),  
("Soumya Chakraborti", "Durgapur", 9189004775, "soumya@054gmail.com", 450),  
("Hrishi Mondal", "Durgapur", 917904985, "hrishimondal@gmail.com", 850);
```

```
mysql> SELECT * FROM student;
```

Name	Address	Phone_no	Email	Marks
Avishek Yadav	Patna	9189004775	avishek@065gmail.com	500
Subhasis Addya	Durgapur	9189504785	subhasisaddya@gmail.com	658
Koushik Bannerjee	Raniganj	9189040995	kousik@065gmail.com	800
Soumya Chakraborti	Durgapur	9189004775	soumya@054gmail.com	450
Hrishi Mondal	Durgapur	917904985	hrishimondal@gmail.com	850

```
mysql> SELECT * FROM student WHERE Marks BETWEEN 500 AND 700;
```

Name	Address	Phone_no	Email	Marks
Avishek Yadav	Patna	9189004775	avishek@065gmail.com	500
Subhasis Addya	Durgapur	9189504785	subhasisaddya@gmail.com	658

```
mysql> SELECT * FROM student WHERE Address="Durgapur" OR Address="Bihar";
```

Name	Address	Phone_no	Email	Marks
Subhasis Addya	Durgapur	9189504785	subhasisaddya@gmail.com	658
Soumya Chakraborti	Durgapur	9189004775	soumya@054gmail.com	450
Hrishi Mondal	Durgapur	917904985	hrishimondal@gmail.com	850

```
mysql> SELECT * FROM student WHERE Name LIKE "A%";
```

Name	Address	Phone_no	Email	Marks
Avishek Yadav	Patna	9189004775	avishek@065gmail.com	500

```
mysql> SELECT * FROM student WHERE Name LIKE "S%";
```

Name	Address	Phone_no	Email	Marks
Subhasis Addya	Durgapur	9189504785	subhasisaddya@gmail.com	658
Soumya Chakraborti	Durgapur	9189004775	soumya@054gmail.com	450

```
mysql> SELECT * FROM student WHERE Name IN ("Koushik Bannerjee", "Subhasis Addya");
```

Name	Address	Phone_no	Email	Marks
Subhasis Addya	Durgapur	9189504785	subhasisaddya@gmail.com	658
Koushik Bannerjee	Raniganj	9189040995	kousik@065gmail.com	450

```
mysql> SELECT * FROM student WHERE Name NOT IN ("Koushik Bannerjee", "Subhasis Addya");
```

Name	Address	Phone_no	Email	Marks
Avishek Yadav	Patna	9189004775	avishek@065gmail.com	500
Soumya Chakraborti	Durgapur	9189004775	soumya@054gmail.com	450
Hrishi Mondal	Durgapur	917904985	hrishimondal@gmail.com	850

DATABASE 2

```
mysql> CREATE DATABASE empInfo;
```

```
mysql> USE empInfo;
```

```
mysql> CREATE TABLE emp_Data(Name varchar(50), Address varchar(80), Phone double,  
Email varchar(30), Salary double);
```

```
mysql> DESC emp_Data;
```

Field	Type	Null	Key	Default	Extra
Name	Varchar(50)	YES		NULL	
Address	Varchar(50)	YES		NULL	
Phone	double	YES		NULL	

```
mysql>CREATE TABLE emp_Data(Name varchar(50), Address varchar(80), Phone double,  
Email varchar(30), Salary double);
```

```
Mysql> INSERT INTO emp_Data (Name, Address, Phone, Email, Salary)  
VALUES("Rishi Mukherjee", "Durgapur", 918538895243, "rishimukherjee@gmail.com",  
25000),  
("Suvam Chakraborti", "Durgapur, Steel Park",  
918001165553,"suvamchakraborti@gmail.com", 25000),  
("Subhasis Addya", "Durgapur, Pipe Line", 918918950886,"subhasisaddya@gmail.com",  
35000),  
("Risita Halder", "Durgapur, Sagarbhang", 918617334058,"risitahalder@gmail.com",  
25000),  
("Tanmoy Mondal", "Durgapur, Raidanga", 916297044231,"tanmoymondal@gmail.com",  
25000),  
("Suryadip Mondal", "Barjora", 919932513526,"suryadipmondal@gmail.com", 25000);
```

```
mysql> SELECT * FROM emp_data;
```

Name	Address	Phone	Email	Salary
Rishi Mukherjee	Durgapur	918538895243	rishimukherjee@gmail.com	25000
Suvam Chakraborti	Durgapur, Steel Park	918001165553	suvamchakraborti@gmail.com	25000
Subhasis Addya	Durgapur, Pipe Line	918918950886	subhasisaddya@gmail.com	35000
Risita Halder	Durgapur, Sagarbhang	918617334058	risitahalder@gmail.com	25000
Tanmoy Mondal	Durgapur, Raidanga	916297044231	tanmoymondal@gmail.com	25000
Suryadip Mondal	Barjora	919932513526	suryadipmondal@gmail.com	25000

```
mysql> SELECT * FROM emp_Data WHERE Salary=25000;
```

Name	Address	Phone	Email	Salary
Rishi Mukherjee	Durgapur	918538895243	rishimukherjee@gmail.com	25000
Suvam Chakraborti	Durgapur, Steel Park	918001165553	suvamchakraborti@gmail.com	25000
Risita Halder	Durgapur, Sagarbhanga	918617334058	risitahalder@gmail.com	25000
Tanmoy Mondal	Durgapur, Raidanga	916297044231	tanmoymondal@gmail.com	25000
Suryadip Mondal	Barjora	919932513526	suryadipmondal@gmail.com	25000

```
mysql> SELECT Name, Phone, Salary FROM emp_data;
```

Name	Phone	Salary
Rishi Mukherjee	918538895243	25000
Suvam Chakraborti	918001165553	25000
Subhasis Addya	918918950886	35000
Risita Halder	918617334058	25000
Tanmoy Mondal	916297044231	25000
Suryadip Mondal	919932513526	25000

```
mysql> SELECT * FROM emp_Data ORDER BY Salary DESC;
```

Name	Address	Phone	Email	Salary
Subhasis Addya	Durgapur, Pipe Line	918918950886	subhasisaddya@gmail.com	35000
Rishi Mukherjee	Durgapur	918538895243	rishimukherjee@gmail.com	25000
Suvam Chakraborti	Durgapur, Steel Park	918001165553	suvamchakraborti@gmail.com	25000
Risita Halder	Durgapur, Sagarbhanga	918617334058	risitahalder@gmail.com	25000
Tanmoy Mondal	Durgapur, Raidanga	916297044231	tanmoymondal@gmail.com	25000
Suryadip Mondal	Barjora	919932513526	suryadipmondal@gmail.com	25000

```
mysql> SELECT * FROM emp_Data ORDER BY Salary ASC;
```

Name	Address	Phone	Email	Salary
Rishi Mukherjee	Durgapur	918538895243	rishimukherjee@gmail.com	25000
Suvam Chakraborti	Durgapur, Steel Park	918001165553	suvamchakraborti@gmail.com	25000
Risita Halder	Durgapur, Sagarbhanga	918617334058	risitahalder@gmail.com	25000
Tanmoy Mondal	Durgapur, Raidanga	916297044231	tanmoymondal@gmail.com	25000
Suryadip Mondal	Barjora	919932513526	suryadipmondal@gmail.com	25000
Subhasis Addya	Durgapur, Pipe Line	918918950886	subhasisaddya@gmail.com	35000

DATABASE 3

```
mysql> CREATE DATABASE collage;
```

```
mysql> USE collage;
```

```
mysql> CREATE TABLE student_data (  
roll_no INT PRIMARY KEY,  
name VARCHAR(30),  
marks INT NOT NULL,  
grade VARCHAR(2),  
city VARCHAR(20)  
);
```

```
mysql> SELECT * FROM student_info;  
Empty set (0.00 sec)
```

```
mysql> DESC student_info;
```

Field	Type	Null	Key	Default	Extra
roll_no	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
marks	int	NO		NULL	
grade	varchar(2)	YES		NULL	
city	varchar(20)	YES		NULL	

```
mysql> SELECT * FROM student_info WHERE marks+20 > 70;
```

roll_no	Name	Marks	Grade	City
101	Manoj	98	A+	Jharkhand
102	Abhisek	85	A	Bihar
103	John	70	B+	Jharkhand
104	Himesh	98	A+	Durgapur
105	Rajib	55	C	Jamsedpur
106	Viccky	68	B	Tata

```
mysql> SELECT * FROM student_info WHERE city IN ("Ranchi", "Jamsedpur", "Hydrabad", "Durgapur");
```

roll_no	Name	Marks	Grade	City
104	Himesh	98	A+	Durgapur
105	Rajib	55	C	Jamsedpur

```
mysql> SELECT * FROM student_info WHERE marks BETWEEN 20 AND 55;
```

roll_no	Name	Marks	Grade	City
105	Rajib	55	C	Jamsedpur

```
mysql> SELECT * FROM student_info WHERE marks > 90 OR city= "Burdwan";
```

roll_no	Name	Marks	Grade	City
101	Manoj	98	A+	Jharkhand
104	Himesh	98	A+	Durgapur

```
mysql> SELECT AVG(marks) FROM student_info;
```

AVG(marks)
79.0000

```
mysql> SELECT MAX(marks) FROM student_info;
```

MAX(marks)
98

```
mysql> SELECT MIN(marks) FROM student_info;
```

MIN(marks)
55

```
mysql> SELECT COUNT(name) FROM student_info;
```

COUNT(name)
6