

### Assignment-3

1) Create a database "MAKAUT\_your\_roll\_no".

Ans:

```
create database MAKAUT_23;
```

Query OK, 1 row affected (0.01 sec)

2) Create a table "Student" with following structure: Details of  
Attributes:- Roll Number (5) Name Varchar2 (30) Age Number (5)  
Course Varchar2 (5) Math Number (6, 2) Physics Number (6, 2)  
Computer Number (6, 2) Dob Date

Ans:

```
CREATE TABLE Student (  
    Roll_Number INT(5),  
    Name VARCHAR(30),  
    Age INT(5),  
    Course VARCHAR(5),  
    Math FLOAT(6,2),  
    Physics FLOAT(6,2),  
    Computer FLOAT(6,2),  
    Dob DATETIME,  
    PRIMARY KEY (Roll_Number));
```

Query OK, 0 rows affected, 5 warnings (0.03 sec)

3) Display the structure of Student table.

Ans :

```
mysql> DESC STUDENT;
```

Field	Type	Null	Key	Default	Extra
Roll_Number	int	NO	PRI	NULL	
Name	varchar(30)	YES		NULL	
Age	int	YES		NULL	
Course	varchar(5)	YES		NULL	
Math	float(6,2)	YES		NULL	
Physics	float(6,2)	YES		NULL	
Computer	float(6,2)	YES		NULL	
Dob	datetime	YES		NULL	

8 rows in set (0.00 sec)

4) Rename Course with Department and Name with First Name.

Ans :

ALTER TABLE Student

RENAME COLUMN Course TO Department;

ALTER TABLE Student

RENAME COLUMN Name TO First Name;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

5) Insert following records into the Student table:- ·

1,Rahul,19,CSE,79.5,67,89,15-jun-93 · 2,Kunal,21,CS,68,76,59.5,16-aug-91 · 3,Aditi,20,DS,90,73,56,20-sep-92 · 4,Sumit,20,AI ML,57.5,78,81,07-dec-91 · 5,Anirban,22,CS,80,68,63,15-sep-94 · 6,Kumkum,21,CS,72,54.5,60,08-feb-95 · 7,Suman,21,ECE,91.5,32,61,10-mar-94 · 8,Rohit,22,CS,85,76,92,19-apr-92

Ans :

INSERT INTO Student (Roll\_Number, First\_Name, Age, Department, Math, Physics, Computer, Dob)

VALUES

(1, 'Rahul', 19, 'CSE', 79.5, 67, 89, '1993-06-15'),  
(2, 'Kunal', 21, 'CS', 68, 76, 59.5, '1991-08-16'),  
(3, 'Aditi', 20, 'DS', 90, 73, 56, '1992-09-20'),  
(4, 'Sumit', 20, 'AI ML', 57.5, 78, 81, '1991-12-07'),  
(5, 'Anirban', 22, 'CS', 80, 68, 63, '1994-09-15'),  
(6, 'Kumkum', 21, 'CS', 72, 54.5, 60, '1995-02-08'),  
(7, 'Suman', 21, 'ECE', 91.5, 32, 61, '1994-03-10'),  
(8, 'Rohit', 22, 'CS', 85, 76, 92, '1992-04-19');

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

6) Display all the students' details from Student table.

Ans :

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

	Roll_Number	First_Name	Age	Department	Math	Physics	Computer	Dob
1	Rahul	19	CSE	79.50	67.00	89.00	1993-06-15 00:00:00	
2	Kunal	21	CS	68.00	76.00	59.50	1991-08-16 00:00:00	
3	Aditi	20	DS	90.00	73.00	56.00	1992-09-20 00:00:00	
4	Sumit	20	AI ML	57.50	78.00	81.00	1991-12-07 00:00:00	
5	Anirban	22	CS	80.00	68.00	63.00	1994-09-15 00:00:00	
6	Kumkum	21	CS	72.00	54.50	60.00	1995-02-08 00:00:00	
7	Suman	21	ECE	91.50	32.00	61.00	1994-03-10 00:00:00	
8	Rohit	22	CS	85.00	76.00	92.00	1992-04-19 00:00:00	

8 rows in set (0.00 sec)

7) Find out the details of the students with roll no 5 from Student table.

Ans :

```
mysql> select * from student where roll_number = 5;
+-----+-----+-----+-----+-----+-----+-----+-----+
| Roll_Number | First_Name | Age | Department | Math | Physics | Computer | Dob |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 5 | Anirban | 22 | CS | 80.00 | 68.00 | 63.00 | 1994-09-15 00:00:00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

8) Show the roll, name, marks of all subjects for all students from Student table.

Ans :

```
mysql> SELECT Roll_Number, First_Name, Math, Physics, Computer
-> FROM Student;
+-----+-----+-----+-----+-----+
| Roll_Number | First_Name | Math | Physics | Computer |
+-----+-----+-----+-----+-----+
| 1 | Rahul | 79.50 | 67.00 | 89.00 |
| 2 | Kunal | 68.00 | 76.00 | 59.50 |
| 3 | Aditi | 90.00 | 73.00 | 56.00 |
| 4 | Sumit | 57.50 | 78.00 | 81.00 |
| 5 | Anirban | 80.00 | 68.00 | 63.00 |
| 6 | Kumkum | 72.00 | 54.50 | 60.00 |
| 7 | Suman | 91.50 | 32.00 | 61.00 |
| 8 | Rohit | 85.00 | 76.00 | 92.00 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

9) Display all the student details belonging to the CS department. Roll Name Age Course Math Physics Computer DoB

Ans :

```
mysql> SELECT Roll_Number, First_Name, Age, Department, Math, Physics, Computer, Dob
-> FROM Student
-> WHERE Department = 'CS';
+-----+-----+-----+-----+-----+-----+-----+-----+
| Roll_Number | First_Name | Age | Department | Math | Physics | Computer | Dob |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 2 | Kunal | 21 | CS | 68.00 | 76.00 | 59.50 | 1991-08-16 00:00:00 |
| 5 | Anirban | 22 | CS | 80.00 | 68.00 | 63.00 | 1994-09-15 00:00:00 |
| 6 | Kumkum | 21 | CS | 72.00 | 54.50 | 60.00 | 1995-02-08 00:00:00 |
| 8 | Rohit | 22 | CS | 85.00 | 76.00 | 92.00 | 1992-04-19 00:00:00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

10) Update the Math marks of the student with Roll no 7 from 91 to 95 in the 'Student' table.

Ans :

```
update student set math = "95" where roll_number = 7;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

11) Update the Name of the student with Roll no 4 from Sumit to Sumitava the 'Student' table.

Ans :

```
update student set first_name = "Sumitava" where roll_number = 4;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

12) Delete the details of the student with Roll no 2 from the 'Student' table.

Ans :

```
delete from student where roll_number = 2;
```

Query OK, 1 row affected (0.00 sec)

13) Delete the details of all students from the 'Student' table.

Ans :

delete from student;

Query OK, 7 rows affected (0.00 sec)

14) Delete the student table.

Ans :

Drop table student;

Query OK, 0 rows affected (0.01 sec)

15) Delete the table MAKAUT\_your\_roll\_no.

Ans :

Drop database Makaut\_23;

Query OK, 0 rows affected (0.01 sec)