

## Practical 2 PART-A

```
mysql> show databases;
```

```
+-----+  
| Database      |  
+-----+  
| employee_db   |  
| information_schema |  
| mysql         |  
| performance_schema |  
| studentdb     |  
| sys           |  
+-----+  
6 rows in set (0.00 sec)
```

```
mysql> USE studentdb;
```

```
Database changed
```

```
mysql> CREATE TABLE Student( Stuid INT PRIMARY KEY, Name VARCHAR(100) NOT NULL,  
Gender CHAR(1) CHECK(Gender IN ('M', 'F')), DOB DATE, Dept VARCHAR(50));
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE Enrollment (Enrollid INT PRIMARY KEY, Stuid INT, Subject VARCHAR(50),  
Grade CHAR(2), FOREIGN KEY( Stuid) REFERENCES Student(Stuid));
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> INSERT INTO Student (Stuid, Name, Gender, DOB, Dept) VALUES(1, 'Aniket Kamble',  
'M', '2003-04-12', 'Computer Science'), (2, 'Priya Sharma', 'F', '2002-09-23', 'Information  
Technology'), (3, 'Rahul Deshmukh', 'M', '2001-07-18', 'Electronics'), (4, 'Sneha Patil', 'F', '2003-  
02-02', 'Mechanical'), (5, 'Aman Verma', 'M', '2002-12-30', 'Civil');
```

```
Query OK, 5 rows affected (0.01 sec)
```

```
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO Enrollment (Enrollid, Stuid, Subject, Grade) VALUES (101, 1, 'Database Systems', 'A'), (102, 2, 'Operating Systems', 'B+'), (103, 3, 'Data Structures', 'A'), (104, 4, 'Computer Networks', 'B'), (105, 5, 'Software Engineering', 'A+');
```

```
Query OK, 5 rows affected (0.01 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Student;
```

Stuid	Name	Gender	DOB	Dept
1	Aniket Kamble	M	2003-04-12	Computer Science
2	Priya Sharma	F	2002-09-23	Information Technology
3	Rahul Deshmukh	M	2001-07-18	Electronics
4	Sneha Patil	F	2003-02-02	Mechanical
5	Aman Verma	M	2002-12-30	Civil

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

```
mysql> SELECT * FROM Enrollment;
```

Enrollid	Stuid	Subject	Grade
101	1	Database Systems	A
102	2	Operating Systems	B+
103	3	Data Structures	A
104	4	Computer Networks	B
105	5	Software Engineering	A+

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

```
mysql> CREATE VIEW Highscore AS SELECT s.Stuid, s.Name, s.Dept, e.Subject, e.Grade FROM Student s JOIN Enrollment e ON s.Stuid = e.Stuid WHERE e.Grade IN ('A', 'A+');
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM Highscore;
```

Stuid	Name	Dept	Subject	Grade
1	Aniket Kamble	Computer Science	Database Systems	A
3	Rahul Deshmukh	Electronics	Data Structures	A
5	Aman Verma	Civil	Software Engineering	A+

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

```
mysql> CREATE INDEX idxstuname ON Student(Name);
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM Student WHERE Name = 'Priya Sharma';
```

Stuid	Name	Gender	DOB	Dept
2	Priya Sharma	F	2002-09-23	Information Technology

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