

Practical-2 PART-B

```
mysql> create database stu;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use stu;  
Database changed
```

```
mysql> CREATE TABLE students (student_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,  
first_name VARCHAR(50) NOT NULL, last_name VARCHAR(50), email VARCHAR(100) UNIQUE, age INT  
CHECK (age >= 17), dept_id INT) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> CREATE TABLE departments (dept_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,  
dept_name VARCHAR(100) NOT NULL UNIQUE) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select *from students;  
Empty set (0.00 sec)
```

```
mysql> select *from deparments;  
ERROR 1146 (42S02): Table 'stu.deparments' doesn't exist  
mysql> select *from departments;  
Empty set (0.00 sec)
```

```
mysql> INSERT INTO departments (dept_name) VALUES ('Computer Science'), ('Mechanical'),  
('Electrical');  
Query OK, 3 rows affected (0.01 sec)  
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select *from departments;  
+-----+-----+  
| dept_id | dept_name |  
+-----+-----+  
| 1 | Computer Science |  
| 3 | Electrical |  
| 2 | Mechanical |  
+-----+-----+  
3 rows in set (0.00 sec)
```

```
mysql> INSERT INTO students (first_name, last_name, email, age, dept_id) VALUES ('Aniket',  
'Kamble', 'aniket@gmail.com', 20, 1), ('Sneha', 'Sharma', 'sneha@gmail.com', 19, 2), ('Amit', 'Kumar',  
'amit@gmail.com', 21, 1), ('Priya', 'Desai', 'priya@gmail.com', 18, 3);  
Query OK, 4 rows affected (0.01 sec)  
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select *from students;  
+-----+-----+-----+-----+-----+-----+  
| student_id | first_name | last_name | email | age | dept_id |  
+-----+-----+-----+-----+-----+-----+
```

1	Aniket	Kamble	aniket@gmail.com	20	1
2	Sneha	Sharma	sneha@gmail.com	19	2
3	Amit	Kumar	amit@gmail.com	21	1
4	Priya	Desai	priya@gmail.com	18	3

4 rows in set (0.00 sec)

```
mysql> SELECT s.first_name, s.last_name, d.dept_name FROM students s JOIN departments d ON
s.dept_id = d.dept_id;
```

first_name	last_name	dept_name
Aniket	Kamble	Computer Science
Sneha	Sharma	Mechanical
Amit	Kumar	Computer Science
Priya	Desai	Electrical

4 rows in set (0.00 sec)

```
mysql> SELECT first_name, age FROM students WHERE age > 19;
```

first_name	age
Aniket	20
Amit	21

2 rows in set (0.00 sec)

```
mysql> SELECT d.dept_name, COUNT(*) AS total_students FROM students s JOIN departments d ON
s.dept_id = d.dept_id GROUP BY d.dept_name;
```

dept_name	total_students
Computer Science	2
Electrical	1
Mechanical	1

3 rows in set (0.00 sec)

```
mysql> SELECT first_name, age FROM students ORDER BY age ASC;
```

first_name	age
Priya	18
Sneha	19
Aniket	20
Amit	21

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

```
mysql> SELECT UPPER(CONCAT(first_name, ' ', last_name)) AS full_name FROM students;
```

```
+-----+
| full_name |
+-----+
| ANIKET KAMBLE |
| SNEHA SHARMA |
| AMIT KUMAR |
| PRIYA DESAI |
+-----+
```

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

```
mysql> CREATE VIEW student_view AS SELECT s.student_id, s.first_name, s.last_name, d.dept_name,
s.email FROM students s JOIN departments d ON s.dept_id = d.dept_id;
```

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

```
mysql> SELECT * FROM student_view;
```

```
+-----+-----+-----+-----+-----+
| student_id | first_name | last_name | dept_name | email |
+-----+-----+-----+-----+-----+
| 1 | Aniket | Kamble | Computer Science | aniket@gmail.com |
| 2 | Sneha | Sharma | Mechanical | sneha@gmail.com |
| 3 | Amit | Kumar | Computer Science | amit@gmail.com |
| 4 | Priya | Desai | Electrical | priya@gmail.com |
+-----+-----+-----+-----+-----+
```

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

```
mysql> UPDATE students SET email = 'rohan123@gmail.com' WHERE first_name = 'Rohan';
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
Rows matched: 0 Changed: 0 Warnings: 0
```

```
mysql> DELETE FROM students WHERE first_name = 'Amit';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT student_id, first_name, dept_id FROM students;
```

```
+-----+-----+-----+
| student_id | first_name | dept_id |
+-----+-----+-----+
| 1 | Aniket | 1 |
| 2 | Sneha | 2 |
| 4 | Priya | 3 |
+-----+-----+-----+
```

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