

Output: Cursor Example

```
Command Prompt - mysql -u root -p
mysql> use A6;
Database changed
mysql>
mysql> create table stud_marks(
    ->     roll_no int PRIMARY KEY,
    ->     name varchar(50),
    ->     marks int
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> insert into stud_marks(roll_no,name,marks) values
    ->     (1,'Amit',1450),
    ->     (2,'Beena',980),
    ->     (3,'Chetan',920);
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> select * from stud_marks;
+-----+-----+
| roll_no | name   | marks |
+-----+-----+
|      1 | Amit   | 1450 |
|      2 | Beena  | 980  |
|      3 | Chetan | 920  |
+-----+-----+
3 rows in set (0.00 sec)
```

```
Select Command Prompt - mysql -u root -p
mysql> delimiter //
mysql> create procedure list_of_students()
-> begin
->     declare v_roll int;
->     declare v_name varchar(100);
->     declare v_marks int;
->     declare done int default 0;
->     declare cur_stud cursor for
->         select roll_no,name,marks from stud_marks;
->     declare continue handler for not found
->         set done = 1;
->
->     open cur_stud;
->
->     read_loop: loop
->         fetch cur_stud into v_roll,v_name,v_marks;
->         if done=1 then
->             leave read_loop;
->         end if;
->         select v_roll ,v_name,v_marks;
->     end loop;
->
->     close cur_stud;
-> end;
-> //
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql>
mysql> call list_of_students();
+-----+-----+
| v_roll | v_name | v_marks |
+-----+-----+
|      1 | Amit   | 1450 |
+-----+-----+
1 row in set (0.00 sec)

+-----+-----+
| v_roll | v_name | v_marks |
+-----+-----+
|      2 | Beena  | 980  |
+-----+-----+
1 row in set (0.01 sec)

+-----+-----+
| v_roll | v_name | v_marks |
+-----+-----+
|      3 | Chetan | 920  |
+-----+-----+
1 row in set (0.02 sec)

Query OK, 0 rows affected (0.03 sec)
```

A6:

```
④ Select Command Prompt - mysql -u root -p
mysql> create table N_RollCall(
    ->     student_id int,
    ->     class_date DATE,
    ->     status varchar(10)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> create table O_RollCall(
    ->     student_id int,
    ->     class_date DATE,
    ->     status varchar(10),
    ->     PRIMARY KEY (student_id,class_date)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> insert into N_RollCall(student_id,class_date,status) values
    ->     (107,'2025-09-01','Present');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> insert into O_RollCall(student_id,class_date,status) values
    ->     (101,'2025-09-01','Present'),
    ->     (102,'2025-09-01','Absent'),
    ->     (103,'2025-09-01','Present');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql>
mysql> insert into N_RollCall (student_id,class_date,status) values
    ->     (101,'2025-09-01','Present'),
    ->     (102,'2025-09-02','Present'),
    ->     (104,'2025-09-01','Absent'),
    ->     (105,'2025-09-03','Present');
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> select * from N_RollCall;
+-----+-----+-----+
| student_id | class_date | status |
+-----+-----+-----+
|      107 | 2025-09-01 | Present |
|      101 | 2025-09-01 | Present |
|      102 | 2025-09-02 | Present |
|      104 | 2025-09-01 | Absent  |
|      105 | 2025-09-03 | Present |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from O_RollCall;
+-----+-----+-----+
| student_id | class_date | status |
+-----+-----+-----+
|      101 | 2025-09-01 | Present |
|      102 | 2025-09-01 | Absent  |
|      103 | 2025-09-01 | Present |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```

Select Command Prompt - mysql -u root -p
mysql>
mysql> delimiter //
mysql> create procedure MergeRollCall2(in p_student_id int)
-> begin
->     declare done int default false;
->     declare v_student_id int;
->     declare v_class_date DATE;
->     declare v_status varchar(10);
->     declare cur cursor for select student_id,class_date,status from N_RollCall where student_id = p_student_id;
->     declare continue handler for not found set done = true;
->
->     open cur;
->
->     read_loop: loop
->         fetch cur into v_student_id,v_class_date,v_status;
->         if done then
->             leave read_loop;
->         end if;
->
->         insert into O_RollCall(student_id,class_date,status)
->             select v_student_id,v_class_date,v_status
->             where not exists(
->                 select 1 from O_RollCall
->                     where student_id = v_student_id AND class_date = v_class_date
->             );
->         end loop;
->
->         close cur;
->     end;
-> ///
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql>
mysql> call MergeRollCall2(107);
Query OK, 0 rows affected (0.00 sec)

```

```

mysql> select * from O_RollCall;
+-----+-----+-----+
| student_id | class_date | status |
+-----+-----+-----+
|      101 | 2025-09-01 | Present |
|      102 | 2025-09-01 | Absent  |
|      103 | 2025-09-01 | Present |
|      107 | 2025-09-01 | Present |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from N_RollCall;
+-----+-----+-----+
| student_id | class_date | status |
+-----+-----+-----+
|      107 | 2025-09-01 | Present |
|      101 | 2025-09-01 | Present |
|      102 | 2025-09-02 | Present |
|      104 | 2025-09-01 | Absent  |
|      105 | 2025-09-03 | Present |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> -

```