

Practical no.09

```
student@student:~$ sudo mysql;
[sudo] password for student:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)
```

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| namya |
| performance_schema |
| sys |
+-----+
```

5 rows in set (0.01 sec)

```
mysql> create database sll_prac;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> use sll_prac;
```

Database changed

```
mysql> create table emp(id int primary key,name varchar(15) not null,city
```

```
    -> varchar(15) not null,post varchar(15) not null,email varchar(30)
```

```
not null
```

```
    -> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> desc emp;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   | PRI | NULL    |       |
| name  | varchar(15)   | NO   |     | NULL    |       |
| city  | varchar(15)   | NO   |     | NULL    |       |
| post  | varchar(15)   | NO   |     | NULL    |       |
| email | varchar(30)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.01 sec)

```
mysql> alter table emp add salary int not null;
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
name	varchar(15)	NO		NULL	
city	varchar(15)	NO		NULL	
post	varchar(15)	NO		NULL	
email	varchar(30)	NO		NULL	
salary	int	NO		NULL	

```
6 rows in set (0.01 sec)
```

```
mysql> insert into emp
```

```
-> values(1, 'ABC', 'Pune', 'Manager', 'abc@gmail.com', 89000);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp
```

```
values(2, 'PQR', 'Mumbai', 'President', 'pqr@gmail.com', 90000);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp
```

```
values(3, 'XYZ', 'Nashik', 'Salesperson', 'xyz@gmail.com', 59000);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into emp
```

```
values(4, 'MNO', 'Thane', 'Salesperson', 'mno@gmail.com', 69000);
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from emp;
```

id	name	city	post	email	salary
1	ABC	Pune	Manager	abc@gmail.com	89000
2	PQR	Mumbai	President	pqr@gmail.com	90000
3	XYZ	Nashik	Salesperson	xyz@gmail.com	59000
4	MNO	Thane	Salesperson	mno@gmail.com	69000

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

```
mysql> create table transaction_log(user_id varchar(15),description
```

```
-> varchar(30));
```

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

```
mysql> desc transaction_log;
```

Field	Type	Null	Key	Default	Extra
user_id	varchar(15)	YES		NULL	
description	varchar(30)	YES		NULL	

```
2 rows in set (0.01 sec)
```

```
mysql> delimiter //
```

```
mysql> create trigger mytrigger
```

```
-> before delete on emp
```

```
-> for each row
```

```

-> begin
-> insert into transaction_log
-> (user_id,description)
-> values(user(),'Employee deleted');
-> end //
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> delimiter ;
mysql> delete from emp where id=1;
Query OK, 1 row affected (0.01 sec)

```

```

mysql> select * from emp;
+----+-----+-----+-----+-----+-----+
| id | name  | city   | post      | email           | salary |
+----+-----+-----+-----+-----+-----+
| 2  | PQR   | Mumbai | President | pqr@gmail.com   | 90000  |
| 3  | XYZ   | Nashik | Saleperson | xyz@gmail.com   | 59000  |
| 4  | MNO   | Thane  | Saleperson | mno@gmail.com   | 69000  |
+----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

mysql> select * from transaction_log;
+-----+-----+
| user_id      | description      |
+-----+-----+
| root@localhost | Employee deleted |
+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> delete from emp where id=2;
Query OK, 1 row affected (0.01 sec)

```

```

mysql> select * from emp;
+----+-----+-----+-----+-----+-----+
| id | name  | city   | post      | email           | salary |
+----+-----+-----+-----+-----+-----+
| 3  | XYZ   | Nashik | Saleperson | xyz@gmail.com   | 59000  |
| 4  | MNO   | Thane  | Saleperson | mno@gmail.com   | 69000  |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```

mysql> select * from transaction_log;
+-----+-----+
| user_id      | description      |
+-----+-----+
| root@localhost | Employee deleted |
| root@localhost | Employee deleted |
+-----+-----+
2 rows in set (0.00 sec)

```

```

mysql> drop trigger mytrigger;
Query OK, 0 rows affected (0.00 sec)

```

```

mysql> create table account(acct_num int,amount decimal(10,2));
Query OK, 0 rows affected (0.02 sec)

```

```

mysql> create trigger ins_sum before insert on account
-> for each row set @sum=@sum+New.amount;

```

Query OK, 0 rows affected (0.00 sec)

mysql> set @sum=0;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into account values(137,14.98),(141,1937.50),(97,-100.00);

Query OK, 3 rows affected (0.00 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select @sum as 'Total amount inserted';

```
+-----+
| Total amount inserted |
+-----+
|          1852.48      |
+-----+
1 row in set (0.00 sec)
```

mysql> drop trigger ins_sum;

Query OK, 0 rows affected (0.00 sec)

mysql> create database slp1;

Query OK, 1 row affected (0.00 sec)

mysql> select * from emp;

```
+----+-----+-----+-----+-----+-----+
| id | name  | city   | post      | email           | salary |
+----+-----+-----+-----+-----+-----+
| 3  | XYZ   | Nashik | Saleperson | xyz@gmail.com   | 59000  |
| 4  | MNO   | Thane  | Saleperson | mno@gmail.com   | 69000  |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

mysql> delimiter //

mysql> create trigger mytri before update on emp

-> for each row

-> begin

-> if New.salary<50000 then

-> set New.salary=30000;

-> else

-> set New.salary=New.salary+500;

-> end if;

-> end //

Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;

mysql> update emp set salary=40000 where name='John';

Query OK, 0 rows affected (0.00 sec)

Rows matched: 0 Changed: 0 Warnings: 0

mysql> select * from emp;

```
+----+-----+-----+-----+-----+-----+
| id | name  | city   | post      | email           | salary |
+----+-----+-----+-----+-----+-----+
| 3  | XYZ   | Nashik | Saleperson | xyz@gmail.com   | 59000  |
| 4  | MNO   | Thane  | Saleperson | mno@gmail.com   | 69000  |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```